

PowerFlex 755TM IP00 Open Type Kits

Catalog Numbers 20-750-x

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

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Update the IP00 Open Type Kit Certifications table to include the applicable frame 7L kits and certifications.	4
Added the frame 7L power module catalog number 20-750-M15-C650D650 to the IP00 Open Type kits that do not provide corrosive gas protection table.	7
Updated the Surrounding air (coolant) temperature specification to include the Frame 7L power module information.	6
Added the DC link fuse assembly kit to the Frame 7 PowerFlex 755TL and 755TR Drive IP00 Component Kits table.	9
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Updated the PowerFlex 755T Products IP00 / Open Type Kit Selection by Equivalent Frame Size section to include the Frame 7L Equivalent PowerFlex 755TR Liquid Cooled Drives table.	13
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Updated the Fiber-optic Cable Kits section to include the Frame 7L Regenerative Liquid Cooled Drive table.	140
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Updated the Control Circuitry Current Load section to include the Frame 7L, IP21 Liquid Cooled Drive table.	166
Updated the Approximate Watts Loss specification to include the frame 7L information.	175
Updated the Derating Guidelines specification to include the frame 7L information.	179
Updated the Required Enclosure Airflow Rates to include the frame 7L information.	256
Added the Liquid Cooling Loop Requirements section.	259
Updated the Approximate Dimensions section to include the Frame 7L Power Module (Cat. No. 20-750-M14-C650-D650) table.	269

Introduction

PowerFlex® 750-Series products with TotalFORCE® technology offer precise motor control along with solutions for harmonic mitigation, regeneration, and common-bus system configurations. TotalFORCE technology delivers exceptional motor control through precise, adaptive control of position, velocity, and torque for electric motors. It incorporates several patented features that are designed to help optimize your system and maintain productivity.

Designed and built using a modular approach, the PowerFlex 755T products offer a full range of ratings and capabilities that are suited to your application needs. The modular construction also offers the added advantage of fast and easy parts replacement and simplified management of a common set of spares.

- **PowerFlex 755TL Drive** – Provides harmonic mitigation and power factor correction by using active front-end technology.
- **PowerFlex 755TR Drive** – Features built-in regeneration capability that helps reduce energy consumption by delivering regenerative energy from motors back to the incoming supply. Line regeneration can reduce the need for braking resistors and associated cooling equipment and helps avoid wasteful dissipation of energy. The drive also offers harmonic mitigation.
- **PowerFlex 755TM Drive System** – Select from a series of predesigned configurations for regenerative and non-regenerative bus supplies and common bus inverters to optimize your system design and power consumption. Gain energy efficiency with motors that share energy between regenerating and motoring loads. A common bus drive system offers advantages such as design flexibility, energy optimization, and reduced installation costs.
 - **PowerFlex 755TM Regenerative Supply** – Converts incoming AC energy to DC energy and supplies it to the common DC bus. Compatible with 755TM common bus inverters and other DC input PowerFlex drives. Provide harmonic mitigation and built-in regeneration capability.
 - **PowerFlex 755TM Non-Regenerative Supply** – Rectifies incoming AC energy to DC energy and supplies it to the common DC bus. Compatible with 755TM common bus inverters and other DC input PowerFlex drives. Provides a cost-effective solution for non-regenerative common bus applications.
 - **PowerFlex 755TM Common Bus Inverter** – Controls AC motors, using energy from the common DC bus.

This manual provides technical specifications, ratings, and selection information for the PowerFlex 755TM IP00 / Open Type kits. All kits that are listed in this publication must be installed in a user-supplied, appropriately rated enclosure. Installation guidelines and procedures for IP00 / Open Type kits are in the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication [750-IN101](#).

Certifications and Environmental Specifications

Certifications Descriptions

Product certifications	Rockwell Automation maintains current product certification information on its website at: rok.auto/certifications	
CE	In conformity with the following European Directives: EMC Directive (2014/30/EU) Low Voltage Directive (2014/35/EU) RoHS Directive (2011/65/EU) Standards applied: EN 61800-3 EN 61800-5-1 IEC 61800-5-2 EN 50495 EN 50581 EN ISO 13849-1 EN 62061 IEC 61508 Parts 1-7	
China RoHS2	Compliant with China Restriction of Hazardous Substances Directive.	
cULus	UL: Listed to UL61800-5-1 up to 600V AC	
Functional safety	TÜV Rheinland - Certification applies to 20-750-S, 20-750-S1, 20-750-S3 safety, and 20-750-S4 options when they are installed in the drive and are configured according to the appropriate safety manual. See Additional Resources on page 273 for list of publications. Standards applied: IEC 61508 PARTS 1...7 EN 61800-3 EN 61800-5-1 IEC 61800-5-2	
KCC	Korean KC registration	
Marine and Offshore Applications	The DC bus conditioner (cat. no. 20-750-MDCBUS1-COND) is suitable for use on a high-resistance ground or ungrounded distribution system in a marine application (for example, ship or marine vessel). See the PowerFlex 755T Products - ABS Certificate, publication 755T-CT002 for details.	
Network communication	ODVA Declaration of Conformity to the EtherNet/IP Specification	
Packaging directive	In conformity with the Packaging Directive (94/62/EC and amendments 2004/12/EC and 2005/20/EC)	

Certifications Descriptions (Continued)

REACH	Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
Regulatory compliance mark (RCM)	Australian Communications and Media Authority In conformity with the following: Radiocommunications Act: 1992 Radiocommunications Standard: 2008 Radiocommunications Labeling Notice: 2008 Standards applied: EN 61800-3:2012
Seismic-qualified installations	Use the enclosure kits for seismic qualified installations with the recommended Rittal TS8 enclosures (see Kits for Seismic-qualified Installations on page 161). Enclosures must be rigidly mounted according to local standards and codes. The installation must comply with any guidance that is provided by a qualified structural engineer. See the PowerFlex 755T Products- Seismic Certificate, publication 755T-CI001 for details.
SEMI F47	Certified compliant with the SEMI F47 standard (frame 7 drives and bus supplies only). See the PowerFlex 750-Series Products with TotalFORCE Control Reference Manual, publication 750-RM100 , for configuration required for compliance.

Component Certifications

An 'X' indicates that the certification applies to the IP00 kit. '—' indicates that a certification does not apply.

IP00 Open Type Kit Certifications

Component	Cat. No.	c-UL-us	CE	RCM	EAC	KCC
AC bus bar splices	20-750-MACSPLn-xnx	X	—	—	—	—
AC bus bars	20-750-MACBUSn-xxx	X	—	—	—	—
AC bus bars (top cable exit/entry)	20-750-MTEBUSn-xxx	X	—	—	—	—
AC input flex bus bars (frame 7 and 7L)	20-750-MACINP-F7	X	—	—	—	—
AC input link bus bar and fuse assemblies	20-750-MACLN-xnx	X	—	—	—	—
AC input/output bus bars (frame 7)	20-750-MACIOT-F7M	X	—	—	—	—
AC input/output bus bars (frame 7L)	20-750-MACIOT-F7L	X	—	—	—	—
AC motor side output flex bus bars (frame 7)	20-750-MSOF-F7	X	—	—	—	—
AC motor side output flex bus bars (frame 7L)	20-750-MSOF-F7L	X	—	—	—	—
AC output flex bus bars (frame 7)	20-750-MACL2-xx-F7M	X	—	—	—	—
AC output flex bus bars (frame 7L)	20-750-MACL2-CD-F7L	X	—	—	—	—
AC precharge circuit breaker bus bars	20-750-MCBBUSn-xnx	X	—	—	—	—
AC precharge circuit breaker bus bars (frame 7 and 7L)	20-750-MPCCB-F7M	X	—	—	—	—
AC precharge circuit breakers	20-750-MACPCCB-xx-nxn	X	X	—	—	—
AC precharge control boards	20-750-MACPC1-xx	X	X	—	—	—
AC precharge control boards (frame 7 and 7L)	20-750-MACPC1-xx-F7M	X	X	—	—	—
AC precharge modules	20-750-MACP-xx-FnM	X	X	X	X	X
AC precharge resistor banks	20-750-MACPR-xx-FnnM	X	X	—	—	—
AC precharge resistor banks (frame 7 and 7L)	20-750-MACPR-CD-F7M	X	X	—	—	—
AC precharge TVSS modules	20-750-MACP-xx-TVSS	X	X	X	X	X
Control bus assemblies	20-750-MCBUS1-xx-xnx	X	—	—	—	—
Control bus connectors	20-750-MCTRLBUS-CONNn	X	—	—	—	—
Control bus splice	20-750-MCTRLBUS-SPL	X				
Control pod assemblies	20-750-MCPODn-FnM	X	X	X	X	X
Control transformers, fuse blocks and fuses	20-750-MN-XMFRn-xx	X	X	—	—	—
DC bus bar splices	20-750-MDCSPL1-nxn	X	—	—	—	—
DC bus bars	20-750-MDCBUSn-xnx	X	—	—	—	—
DC bus conditioner	20-750-MDCBUS-COND	X	X	X	X	X
DC bus conditioner (frame 7)	20-750-MDCBUS-COND-F7M	X	X	X	X	X
DC bus conditioner (marine)	20-750-MDCBUS1-COND	X	X	X	X	X
DC link/fuse assemblies	20-750-MDCLn-xx-FnM	X	X	X	X	X

IP00 Open Type Kit Certifications (Continued)

Component	Cat. No.	c-UL-us	CE	RCM	EAC	KCC
DC link/fuse assemblies (frame 7L)	20-750-MDCL1-CD-F7L	x	x	x	—	x
DC link/fuse assemblies (NRS)	20-750-MN-DCLINK n -xx	x	x	—	—	—
DC output bus bars (frame 7)	20-750-MDCOT-F7M	x	—	—	—	—
DC output flex bus bar and fuse assemblies (frame 7)	20-750-MDCFB-xx-F7M	x	—	—	—	—
DC precharge lift	20-750-MCART2	—	x	—	—	—
DC precharge modules	20-750-MDCP n -xx-F8M	x	x	x	x	x
DC voltage balance / wire bays (back-to-back configurations)	20-750-DCVBB-400, 20-750-DCVBB-400C, 20-750-DCVBB-400-FBR, 20-750-DCVBB-800, 20-750-DCVBB-800-FBR, 20-750-DCVBB-BS	x	—	—	—	—
EMC C2 filter input bus bars, frames 8...10	20-750-MEMCC2-IPBB	x	x	—	—	—
EMC C2 filter output bus bars, frames 8...10	20-750-MEMCC2-F n	x	x	—	—	—
EMC C2 filter, frames 8...10	20-750-MEMCC2-F8910	x	x	—	—	—
Fiber transceiver board	20-750-MFTB1-F8	x	x	—	—	—
Ground bus bar splice	20-750-MGNDSP1	x	—	—	—	—
Interconnect wire harnesses (NRS)	20-750-MNIH n and 20-750-MNIH-JMP n	x	x	—	—	—
L-bracket bus bar	20-750-MLBRKT-F8M	x	—	—	—	—
LCL filter modules	20-750-ML n -xxxxnnnn	x	x	x	x	x
Marine discharge circuit board	20-750-MBSCD-DB	x	x	x	x	x
Module storage hardware	20-750-MINV-ATIP	—	x	—	—	—
Power / LCL module service cart	20-750-MCART1	—	x	—	—	—
Power module service ramp	20-750-MRAMP1	—	x	—	—	—
Power modules	20-750-MI n -xxxxnnnn	x	x	x	x	x
Power modules (NRS)	20-750-MN n -xxxxnnnn	x	x	x	x	x
Seismic-qualified enclosure hardware, frames 7...12	20-750-MOSHDP-F n M	x	—	—	—	—
Stab receptacles	20-750-MREC1-F8M and 20-750-MREC1-F8MC	x	—	—	—	—
Stab receptacles with back panel and bus bars	20-750-MAnR n -F n M, 20-750-MDCREC1-F8M, 20-750-MDCREC1-F8MC, 20-750-MIR n -F n M, 20-750-MIR n -F nn M, 20-750-MNIR n	x	—	—	—	—
Torque accuracy modules	20-750-MTAM1-xx	x	x	x	x	x
Ventilation kits with fans	20-750-MVENT n -F n M, 20-750-MVENT n -F nnn , 20-750-MVENTC2-F8M, and 20-750-MVENTC2-F11M	x	—	—	—	—
Wire entry bays	20-750-MN-WBAY n -nnn	x	x	—	—	—

Environmental Specifications

Category	Specification																																
Environmental compliance	Rockwell Automation maintains current product environmental information on its website at: http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page																																
Altitude	For PowerFlex 755T Products, see Derating Guidelines beginning on page 179. For PowerFlex 755TM Non-Regenerative Supply, derate 1% of rated power for every 100 m (328.1 ft.) above 1000 m (3280.8 ft.). For PowerFlex 755T Products. Based on EN61800-5-1 (Electro-thermal Safety Standard for drives) <table><tr><th colspan="5">Altitude Limit Above Sea Level ⁽¹⁾</th></tr><tr><th>System and Ground Configuration</th><th>Overvoltage Category ⁽²⁾</th><th>400/480V AC</th><th>600V AC</th><th>690V AC</th></tr><tr><td rowspan="2">Center Grounded (Y Neutral) w/Solid Ground</td><td>II</td><td>9000 m ⁽³⁾</td><td>7500 m ⁽³⁾</td><td>7500 m ⁽³⁾</td></tr><tr><td>III</td><td>4800 m</td><td>4800 m</td><td>4800 m</td></tr><tr><td rowspan="2">Ungrounded, Impedance Grounded, or Corner Grounded</td><td>II</td><td>4800 m</td><td>7500 m ⁽³⁾</td><td>4800 m</td></tr><tr><td>III</td><td>2000 m</td><td>4800 m</td><td>2000 m</td></tr></table> (1) Excluding failure from cosmic radiation. Cosmic radiation increases power semiconductor device malfunction at altitudes greater than 3000 m (9824.5 ft) above sea level. Concrete walls and ceilings or concrete walls and large bottles of water overhead are examples of ways to shield against cosmic radiation. (2) Overvoltage Categories: Category II (Isolation Transformer Level) - Typically two levels of isolation or protection from outdoor power lines. Category III (Most Common) Distribution Level Inside a Building - Typically one level of isolation or protection from outdoor power lines. (3) See the Ambient Temperature/Load Derating Guidelines starting on page 179. Product is limited to a maximum of 4800 m thermally. For altitudes above 4800 m, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.	Altitude Limit Above Sea Level ⁽¹⁾					System and Ground Configuration	Overvoltage Category ⁽²⁾	400/480V AC	600V AC	690V AC	Center Grounded (Y Neutral) w/Solid Ground	II	9000 m ⁽³⁾	7500 m ⁽³⁾	7500 m ⁽³⁾	III	4800 m	4800 m	4800 m	Ungrounded, Impedance Grounded, or Corner Grounded	II	4800 m	7500 m ⁽³⁾	4800 m	III	2000 m	4800 m	2000 m				
Altitude Limit Above Sea Level ⁽¹⁾																																	
System and Ground Configuration	Overvoltage Category ⁽²⁾	400/480V AC	600V AC	690V AC																													
Center Grounded (Y Neutral) w/Solid Ground	II	9000 m ⁽³⁾	7500 m ⁽³⁾	7500 m ⁽³⁾																													
	III	4800 m	4800 m	4800 m																													
Ungrounded, Impedance Grounded, or Corner Grounded	II	4800 m	7500 m ⁽³⁾	4800 m																													
	III	2000 m	4800 m	2000 m																													
Solid Particulate Ingress	Conformity with IEC 60721-3-3-2002 3S2. A suitable IP54, UL Type 12 Cabinet is required to meet the 3S2 requirement.																																
Corrosive Atmosphere	Severity Level GX per ANSI/ISA 71.04-2013, Airborne contaminants-gases. Severity level GX is defined as up to 2100 angstroms of film growth per 30 days of copper or silver reactivity. Severity Level CX per IEC 60721-3-3: 2019, Chemically Active Substances. For the product to meet the corrosive atmosphere rating, these conditions must be met: - Keep the product or kit in its sealed XT packaging until installation. - Protective covers must remain installed in unused ports and connectors after the XT packaging seal is broken.																																
Environmental impact	EU Environmental Directive: - Restriction of Hazardous Substances (RoHS) Directive (2011/65/EU) - CE marking is required for the EU - Registration, Evaluation and Authorization of Chemicals (REACH) Regulation (1907/2006) - Packaging Directive (94/62/EC as amended by 2004/12/EC and 2005/20/EC) China Restriction of Hazardous Substance (RoHS) Directive																																
Surrounding air (coolant) temperature	<table><tr><th>Module</th><th>Inlet Temperature⁽¹⁾</th><th>Maximum Surrounding Temperature</th></tr><tr><td>Control pods</td><td>-20...+60 °C (-4...+140 °F)</td><td>65 °C (149 °F)</td></tr><tr><td rowspan="2">Power modules (frames 7...15)</td><td>-20...+40 °C (-4...+104 °F)</td><td>50 °C (122 °F)</td></tr><tr><td>41...55 °C (106...131 °F)</td><td>65 °C (149 °F)⁽²⁾</td></tr><tr><td>Power module (frame 7L)</td><td>0...40 °C (32...104 °F)</td><td>40 °C (104 °F)⁽³⁾</td></tr><tr><td>Power modules (NRS)</td><td>-20...+55 °C (-4...+131 °F)</td><td>70 °C (158 °F)</td></tr><tr><td rowspan="2">LCL filter modules</td><td>-20...+40 °C (-4...+104 °F)</td><td>50 °C (122 °F)</td></tr><tr><td>41...55 °C (106...131 °F)</td><td>65 °C (149 °F)⁽²⁾</td></tr><tr><td rowspan="2">DC precharge modules</td><td>-20...+55 °C (-4...+131 °F)</td><td>65 °C (149 °F)</td></tr><tr><td>55...60 °C (131...140 °F)</td><td>65 °C (149 °F)⁽²⁾</td></tr><tr><td rowspan="2">AC precharge modules</td><td>-20...+40 °C (-4...+104 °F)</td><td>50 °C (122 °F)</td></tr><tr><td>41...55 °C (106...131 °F)</td><td>65 °C (149 °F)⁽²⁾</td></tr></table> (1) Inlet temperature represents the air immediately entering the IP00 open type module. (2) Elevated temperature values are based on appropriate derating. See the Ambient Temperature/Load Derating Guidelines starting on page 179. (3) Maximum surrounding air and coolant temperature.	Module	Inlet Temperature ⁽¹⁾	Maximum Surrounding Temperature	Control pods	-20...+60 °C (-4...+140 °F)	65 °C (149 °F)	Power modules (frames 7...15)	-20...+40 °C (-4...+104 °F)	50 °C (122 °F)	41...55 °C (106...131 °F)	65 °C (149 °F) ⁽²⁾	Power module (frame 7L)	0...40 °C (32...104 °F)	40 °C (104 °F) ⁽³⁾	Power modules (NRS)	-20...+55 °C (-4...+131 °F)	70 °C (158 °F)	LCL filter modules	-20...+40 °C (-4...+104 °F)	50 °C (122 °F)	41...55 °C (106...131 °F)	65 °C (149 °F) ⁽²⁾	DC precharge modules	-20...+55 °C (-4...+131 °F)	65 °C (149 °F)	55...60 °C (131...140 °F)	65 °C (149 °F) ⁽²⁾	AC precharge modules	-20...+40 °C (-4...+104 °F)	50 °C (122 °F)	41...55 °C (106...131 °F)	65 °C (149 °F) ⁽²⁾
Module	Inlet Temperature ⁽¹⁾	Maximum Surrounding Temperature																															
Control pods	-20...+60 °C (-4...+140 °F)	65 °C (149 °F)																															
Power modules (frames 7...15)	-20...+40 °C (-4...+104 °F)	50 °C (122 °F)																															
	41...55 °C (106...131 °F)	65 °C (149 °F) ⁽²⁾																															
Power module (frame 7L)	0...40 °C (32...104 °F)	40 °C (104 °F) ⁽³⁾																															
Power modules (NRS)	-20...+55 °C (-4...+131 °F)	70 °C (158 °F)																															
LCL filter modules	-20...+40 °C (-4...+104 °F)	50 °C (122 °F)																															
	41...55 °C (106...131 °F)	65 °C (149 °F) ⁽²⁾																															
DC precharge modules	-20...+55 °C (-4...+131 °F)	65 °C (149 °F)																															
	55...60 °C (131...140 °F)	65 °C (149 °F) ⁽²⁾																															
AC precharge modules	-20...+40 °C (-4...+104 °F)	50 °C (122 °F)																															
	41...55 °C (106...131 °F)	65 °C (149 °F) ⁽²⁾																															
Ambient air temperature ⁽¹⁾	IP21, UL Type 1: -20...+40 °C (-4...+104 °F) IP21, UL Type 1: 0...40 °C (32...104 °F) IP54, UL Type 12: -20...+40 °C (-4...+104 °F) Frames 7...15, all ratings Frame 7L Frames 7...15, all ratings																																
Ambient temperature with derating ⁽¹⁾	50 °C (122 °F) or 55 °C (134 °F) Frames 7...15, all ratings See Derating Guidelines on page 179.																																
Storage temperature ⁽¹⁾	-40...+70 °C (-40...+158 °F)																																
Relative humidity	5...95% noncondensing																																
UV radiation	The HIM is not UV rated.																																

Environmental Specifications (Continued)

Category	Specification
Shock • Packaged for shipment	Meets ATSM International standards.
Vibration • Packaged for shipment	Meets ATSM International standards.
Required airflow • LCL filters and power modules	See page 256 and the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101 , for additional airflow information.
Surrounding environment	Pollution Degree 1 and 2: Pollution Degree 3 and 4: All enclosures acceptable. The system must be installed in an environment that meets Pollution Degree 2 or better, according to EN 61800-5-1. (See page 258 for descriptions of each pollution degree rating.)

(1) Temperatures provided are based on PowerFlex 750-Series products with TotalFORCE control.

IP00 Open Type Kits with Corrosive Gas Protection (XT)

All PowerFlex 755TM IP00 Open Type kits with corrosive gas protection (XT) meet the corrosive atmosphere specification as defined by Rockwell Automation. See the Corrosive Atmosphere specification on [page 6](#) for details and requirements.

The IP00 Open Type kits that are listed in this table do not meet the corrosive atmosphere specification. Do not install these kits in a PowerFlex 755T product installed in a corrosive environment. The kit catalog number and series are contained on the kit package label and/or nameplate.

IP00 Open Type kits that do not provide corrosive gas protection

Catalog Number	Module	Series
20-750-M11-xnnnnnnn, 20-750-M12-xnnnnnnn, 20-750-M13-xnnnnnnn, 20-750-M14-xnnnnnnn	Frames 7...15 power modules	A
20-750-M15-C650D650 ⁽¹⁾	Frame 7L power module	
20-750-ML1-xnnnnnnn, 20-750-ML4-xnnnnnnn	LCL filter modules	
20-750-MDCP1-xx-F8M	DC precharge modules	
20-750-MACP-x-FnM	AC precharge modules	
20-750-MACPC1-xx or 20-750-MACPC1-xx-F7M	AC precharge control board	
20-750-MFTB1-F8	Fiber transceiver board	
20-750-MDCBUS-COND	DC bus conditioner (frames 8...15)	
20-750-MDCBUS-COND	DC bus conditioner (frames 8...12, marine)	
20-750-MDCBUS-COND-F7M	DC bus conditioner (frame 7)	
20-750-MBSCD-DB	Marine discharge board (frame 7)	
20-750-MEMCC2-F8910	EMC C2 Filter, IP00, Frame 8...10	
20-750-MVENTC1-F11M	Input bay vent kit	
20-750-MFOC-nxn	Fiber-optic cable	
20-750-MDCLn-xx-F8M	DC link/fuse assembly	
20-750-MTAM1-xx	Torque accuracy module	B and earlier

(1) Corrosive atmosphere rating is Severity Level G3. Consult the factory for more information.

IMPORTANT

For IP00 Open Type kits installed in an environment that contains volatile, conductive, or corrosive liquid, gases, and/or solids these conditions must be met:

- Kits must be installed in enclosures that provide for protection against solid and liquid ingress (IP21 / Type 1 or IP54 / Type 12)
- Kits must have corrosive gas protection (XT)
- Protective covers must be installed on unused connections

For IP00 Open Type kits with XT that are stored before installation these conditions must be met:

- Kits must remain in the original packaging until the time of installation
- Kits must be stored in an area where exposure to corrosive atmosphere and humidity is minimized
- Kits must not be stored in environments that contain conductive pollutants

See the Industry Installation Guidelines for Pulse Width Modulated (PWM) AC Drives, publication [DRIVES-AT003](#) for more information on environmental considerations.

PowerFlex 755T Products IP00 / Open Type Kit Selection by Equivalent Frame Size

The tables in this section provide selection information for IP00 component kits that are required to build an equivalent PowerFlex 755TL drive, 755TR drive, or 755TM common bus product based on frame size and rating information. For power ratings and selection information for PowerFlex 755TM NRS IP00 modules and component kits, see the PowerFlex 755TM Non-Regenerative Supply System section on page [86](#). For detailed IP00 kit assembly and installation guidelines that includes product enclosure recommendations, see the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication [750-IN101](#).

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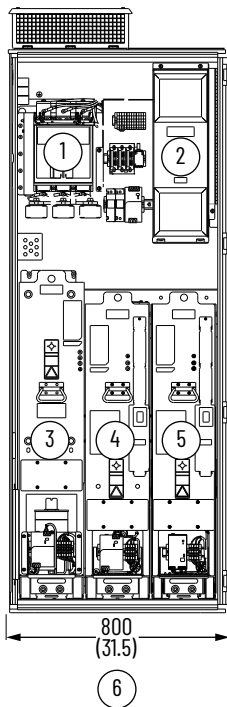
Frame 7 Equivalent PowerFlex 755TL and 755TR Drives

This section provides selection information for frame 7 equivalent PowerFlex 755TL or 755TR drives.

Frame 7 PowerFlex 755TL and 755TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	302...600	160...315 kW
480	302...600	250...500 Hp
600	192...395	200...400 Hp
690	171...370	160...355 kW

Frame 7 PowerFlex 755TL and 755TR Drive Major Components - Front View



Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	AC precharge section	4	Line side converter
2	Control pod	5	Motor side inverter
3	LCL filter	6	Power bay

Frame 7 PowerFlex 755TL and 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Converter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML4-xnnnxxxx	1	LCL module rating and specification information, see Frame 7 Module Selection on page 115 .
Power module (Line side converter)	20-750-MI4-xnnnxxxx	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 7 Module Selection on page 115 .
Power module (Motor side inverter)	20-750-MI4-xnnnxxxx	1	Power module that is configured as a motor side converter. For power module rating and specification information, see Frame 7 Module Selection on page 115 .
AC precharge circuit breaker	20-750-MACPCCB-1K0	1	For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
AC precharge fused disconnect	194R-J30-1753-PBS1	1	For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .

Frame 7 PowerFlex 755TL and 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge resistor bank	20-750-MACPR-CD-F7M	1	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge control board	20-750-MACPC1-xx-F7M	1	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
Control pod	20-750-MCP0Dn-F7M	1	For power consumption, airflow, and firmware compatibility information, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 139 .
DC link/fuse assembly	20-750-MDCL1-xx-F7M		For specification and ratings information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
AC input/output bus bar terminals	20-750-MACIOT-F7M	1	For specification and ratings information, see Frame 7 and 7L Bus Bar Kits on page 152 .
AC flexible bus input/breaker	20-750-MACINP-F7	1	
AC precharge, circuit breaker bus bars	20-750-MPCCB-F7M	1	
AC motor side output flexible bus	20-750-MSOF-F7	1	
AC output bus bars and fuses	20-750-MACL2-xx-F7M	1	
DC output bus bar terminals	20-750-MDCOT-F7M	1	
DC output flexible bus and fuses	20-750-MDCFB-xx-F7M	1	
Vent (800 mm wide)	20-750-MVENTn-F7M	1	For rating and specification information, see Ventilation Assemblies on page 162 . For temperature specification, see Ventilation Kit Temperature Specifications on page 162 .
LCL filter and power module mounting bracket	20-750-MMNT1-F7M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .

Frame 7 PowerFlex 755TL and 755TR Drive Options

Module or Kit Name	Description
AC common mode cores (20-750-MACCM1-F7M) ⁽¹⁾	For selection information, see AC Common Mode Core on page 151 .
DC output flex bus (20-750-MDRFB-F7M)	For specification and ratings information, see Frame 7 and 7L Bus Bar Kits on page 152 .
Marine discharge board (20-750-MBSCD-DB)	See DC Bus Conditioner on page 148 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cable for AC precharge control board to control pod ⁽²⁾	See Fiber-optic Cable Kits on page 139 .
Fiber-optic cables for power modules to control pod ⁽²⁾	

⁽¹⁾ Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information.

⁽²⁾ A fiber-optic cable is required for this connection, but can be customer-sourced.

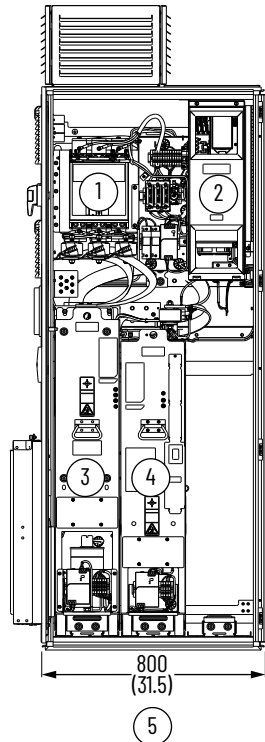
Frame 7 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 7 equivalent PowerFlex 755TM bus supplies.

Frame 7 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	324...644	188...373 kW
480	311...617	216...426 Hp
600	197...406	171...353 Hp
690	176...380	176...380 kW

Frame 7 PowerFlex 755TM Bus Supply Major Components - Front View



Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	AC precharge section	4	Line side converter
2	Control pod	5	Power bay
3	LCL filter		

Frame 7 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Converter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML4-xnnnxxxx	1	LCL module rating and specification information, see Frame 7 Module Selection on page 115 .
Power module (Line side converter)	20-750-MI4-xnnnxxxx	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 7 Module Selection on page 115 .
AC precharge circuit breaker	20-750-MACPCB-1K0	1	For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
AC precharge resistor bank	20-750-MACPR-CD-F7M	1	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge control board	20-750-MACPC1-xx-F7M	1	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130 .

Frame 7 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control pod	20-750-MCPOD n -F7M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 139 .
AC input/output bus bar terminals	20-750-MACIOT-F7M	1	For ratings information, see Frame 7 and 7L Bus Bar Kits on page 152 .
AC flexible bus input/breaker	20-750-MACINP-F7	1	
AC precharge, circuit breaker bus bars	20-750-MPCCB-F7M	1	
AC output bus bars and fuses	20-750-MACL2-xx-F7M	1	
DC output bus bar terminals	20-750-MDCOT-F7M	1	
DC output flexible bus and fuses	20-750-MDCFB-xx-F7M	1	For ratings information, see Frame 7 DC Output Flex Bus Bar and Fuse Assembly Kit Fuses on page 153 .
Vent (800 mm wide)	20-750-MVENT n -F7M	1	For rating and specification information, see Ventilation Assemblies on page 162 . For temperature specification, see Ventilation Kit Temperature Specifications on page 162 .
LCL filter and power module mounting bracket	20-750-MMNT1-F7M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .

Frame 7 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
AC common mode cores (20-750-MACCM1-F7M) ⁽¹⁾	For selection information, see AC Common Mode Core on page 151 .
Marine discharge board (20-750-MBSCD-DB)	See DC Bus Conditioner on page 148 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cable for AC precharge control board to control pod ⁽²⁾	See Fiber-optic Cable Kits on page 139 .
Fiber-optic cable for power module to control pod ⁽²⁾	

(1) Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information.

(2) A fiber-optic cable is required for this connection, but can be customer-sourced.

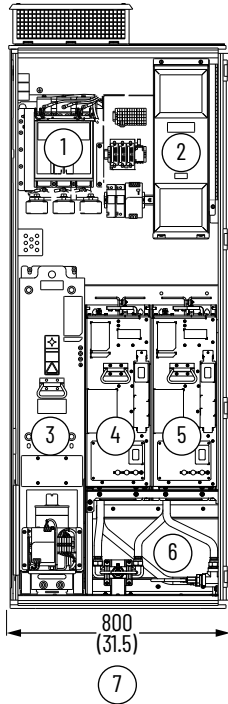
Frame 7L Equivalent PowerFlex 755TR Liquid Cooled Drives

This section provides selection information for frame 7L equivalent PowerFlex 755TR liquid cooled drives.

Frame 7 PowerFlex 755TR Liquid Cooled Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	650	355 kW
480	650	600 Hp

Frame 7L PowerFlex 755TR Liquid Cooled Drive Major Components - Front View



Enclosure is 600 mm (23.6 in.) deep. IP21, UL Type 1 Enclosure Shown.

Item	Description	Item	Description
1	AC precharge section	5	Motor side inverter
2	Control pod	6	Cooling loop and brackets ⁽¹⁾
3	LCL filter	7	Power bay
4	Line side converter		

(1) The cooling loop components are customer sourced. See [Liquid Cooling Loop Requirements on page 259](#) for more information.

Frame 7L PowerFlex 755TR Liquid Cooled Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Converter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML4-C585D617	1	LCL module rating and specification information, see Frame 7L Module Selection on page 116 .
Power module (Line side converter)	20-750-MI5-C650D650	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 7L Module Selection on page 116 .
Power module (Motor side inverter)	20-750-MI5-C650D650	1	Power module that is configured as a motor side converter. For power module rating and specification information, see Frame 7L Module Selection on page 116 .
AC precharge circuit breaker	20-750-MACPCCB-1K0	1	For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .

Frame 7L PowerFlex 755TR Liquid Cooled Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge fused disconnect	194R-J30-1753-PBS1	1	For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128.
AC precharge resistor bank	20-750-MACPR-CD-F7M	1	For specification and rating information, see AC Precharge Resistor Banks on page 128.
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128.
AC precharge control board	20-750-MACPC1-CD-F7M	1	For specification and rating information, see AC Precharge Control Boards on page 128.
AC precharge TVSS module	20-750-MACP-CD-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130.
Control pod	20-750-MCP0D3-F7M	1	For power consumption, airflow, and firmware compatibility information, see Control Pod Assemblies on page 138.
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 139.
DC link/fuse assembly	20-750-MDCL1-CD-F7L		For specification and ratings information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148.
AC input/output bus bar terminals	20-750-MACIOT-F7L	1	For ratings information, see Frame 7 and 7L Bus Bar Kits on page 152.
AC flexible bus input/breaker	20-750-MACINP-F7	1	
AC precharge, circuit breaker bus bars	20-750-MPCCB-F7M	1	
AC output bus bars and fuses	20-750-MACL2-CD-F7L	1	
AC motor side output flexible bus	20-750-MSOF-F7L	1	
Vent (800 mm wide)	20-750-MVENT1-F7L	1	For rating and specification information, see Ventilation Assemblies on page 162. For temperature specification, see Ventilation Kit Temperature Specifications on page 162.
LCL filter and power module mounting brackets	20-750-MMNT1-F7L	1	See Power and LCL Filter Module Floor and Support Brackets on page 161.

Frame 7L PowerFlex 755TR Liquid Cooled Drive Options

Module or Kit Name	Description
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131.
Torque accuracy module 400/480V	See Torque Accuracy Modules (TAM) on page 149.
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137.
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139.
Fiber-optic cables for power modules to control pod ⁽¹⁾	

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

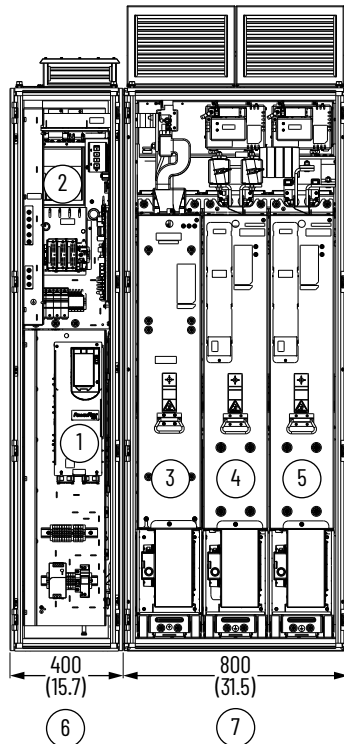
Frame 8 Equivalent PowerFlex 755TL or PowerFlex 755TR Drives

This section provides selection information for frame 8 equivalent PowerFlex 755TL or PowerFlex 755TR drives.

Frame 8 PowerFlex 755TL or 755TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	302...770	160...400 kW
480	302...740	250...650 Hp
600	242...545	250...550 Hp
690	215...505	200...500 kW

Frame 8 PowerFlex 755TL or 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	5	Motor side inverter
2	AC precharge module	6	Input bay
3	LCL filter	7	Power bay
4	Line side converter		

Frame 8 PowerFlex 755TL or 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (400 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge module	20-750-MACP-xx-F8M	1	For rating, environmental, and weight information, see AC Precharge Modules on page 127.
AC input bus bar/insulator/bracket	20-750-MCNC-TAC-F8	1	See Frame 8...15 AC Input Bus Bars on page 150.
AC input bus bars and fuses	20-750-MACLn-F8M	1	For voltage rating, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151.
Control pod	20-750-MCPODn-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138.
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 139
Control bus assembly (400 mm)	20-750-MCBUS1-IB-F8M	1	See Control Bus Assemblies on page 153.

Frame 8 PowerFlex 755TL or 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Vent (400 mm wide)	20-750-MVENTC2-F8M	1	For rating and specification information, see Ventilation Assemblies on page 162 . For temperature specification, see Ventilation Kit Temperature Specifications on page 162 .
Power Bay (Converter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnnnnn	1	LCL module rating and specification information, see Frame 8 Module Selection on page 116 .
Power module (Line side converter)	20-750-MI1-xnnnnnnn	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 8 Module Selection on page 116 .
Power module (Motor side inverter)	20-750-MIn-xnnnnnnn	1	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 8 Module Selection on page 116 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Power and LCL filter module back panel and stab receptacles	20-750-MADR1-F8M	1	For rating and specification information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL2-xx-F8M	1	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	3 or 4 ⁽¹⁾	See Control Bus Connectors on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 153 .
Vent (800 mm wide)	20-750-MVENTn-F10M	1	For rating and specification information, see Ventilation Assemblies on page 162 . For temperature specification, see Ventilation Kit Temperature Specifications on page 162 .
Power and LCL filter module mounting brackets	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL3-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

(1) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 8 PowerFlex 755TL or 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
Power and LCL filter module back panel and stab receptacles, right-to-left orientation	
AC input bus bars splice (no fuses)	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
AC input bus bars splice, right-to-left orientation	
DC link/fuse assembly, right-to-left orientation	See DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
AC bus bars, exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for exit wire bay, right-to-left orientation	
Ground bus bar splice	See Ground Bus Bar Splice on page 153 .
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	

Frame 8 PowerFlex 755TL or 755TR Drive Options (Continued)

Module or Kit Name	Description
EMC C2 filter	See EMC C2 Filter Kits on page 149
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

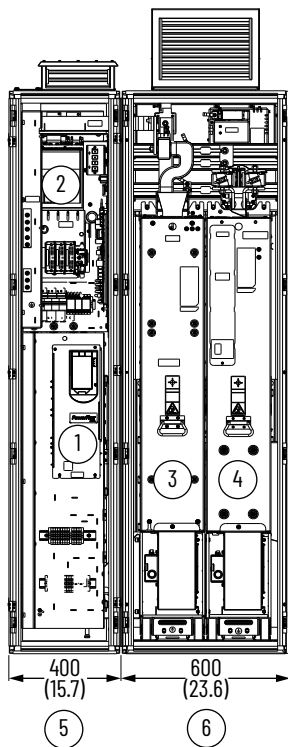
Frame 8 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 8 equivalent PowerFlex 755TM bus supplies.

Frame 8 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	302...770	188....479 kW
480	302...740	216....529 kW
600	242...545	217....487 kW
690	215...505	221....518 kW

Frame 8 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	4	Line side converter
2	AC precharge module	5	Input bay
3	LCL filter	6	Power bay

Frame 8 PowerFlex 755TM Bus Supply Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (400 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge module	20-750-MACP-xx-F8M	1	For rating, environmental, and weight information, see AC Precharge Modules on page 127 .
AC input bus bar/insulator/bracket	20-750-MCNCTAC-F8	1	See Frame 8...15 AC Input Bus Bars on page 150 .
AC input bus bars and fuses	20-750-MACLn-F8M	1	For voltage rating, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
Control pod	20-750-MCPODn-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 139 .
Control bus assembly (400 mm)	20-750-MCBUS1-IB-F8M	1	See Control Bus Assemblies on page 153 .
Vent (400 mm wide)	20-750-MVENTC2-F8M	1	For rating and specification information, see Ventilation Assemblies on page 162 . For temperature specification, see Ventilation Kit Temperature Specifications on page 162 .
Power Bay (Converter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	1	LCL module rating and specification information, see Frame 8 Module Selection on page 116 .
Power module (Line side converter)	20-750-MI1-xnnnxxxx	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 8 Module Selection on page 116 .
LCL filter and single line side converter back panel and stab receptacles (600 mm wide)	20-750-MACR1-F8M	1	For rating and specification information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	1	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	1	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 table.
DC bus bar (600 mm)	20-750-MDCBUS6-nxn	1	
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	1	For rating and specification information, see Ventilation Assemblies on page 162 . For temperature specification, see Ventilation Kit Temperature Specifications on page 162 .
Power and LCL filter module mounting brackets	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL3-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 8 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
LCL filter and single line side converter back panel and stab receptacles (600 mm wide), right-to-left orientation	
AC input bus bars splice (no fuses)	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
AC input bus bars splice, right-to-left orientation	
DC link/fuse assembly, right-to-left orientation	See DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cable for power module to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	

Frame 8 PowerFlex 755TM Bus Supply Options (Continued)

Module or Kit Name	Description
EMC C2 filter	See EMC C2 Filter Kits on page 149 .
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

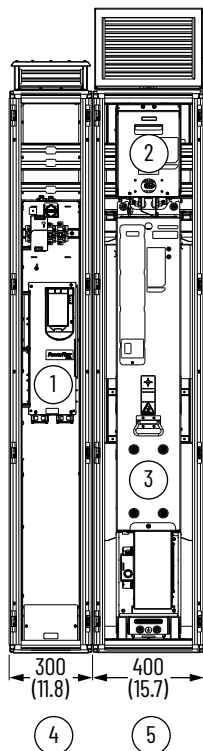
Frame 8 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 8 equivalent PowerFlex 755TM common bus inverters.

Frame 8 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	302...770	160...400 kW
480	302...740	250...650 Hp
600	242...545	250...550 Hp
690	215...505	200...500 kW

Frame 8 PowerFlex 755TM Common Bus Inverter Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 8 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See PowerFlex 755TM Control Bay (Supplier: Rittal) on page 154 for Rittal part number.
Control pod	20-750-MCPOD4-F8M	1 or 2 ⁽¹⁾	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	1 or 2 ⁽²⁾	See Fiber Transceiver Board on page 139 .
DC bus bar (300 mm)	20-750-MDCBUS3-nKn	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 153 .
Vent (300 mm wide)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power Bay (Inverter, 400 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI1-nxxxxnxxx	1	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 8 Module Selection on page 116 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Single motor side inverter back panel and stab receptacles (400 mm wide)	20-750-MIR1-F8M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	1	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if a DC precharge module is used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	1	For specification and rating information, see DC Precharge Modules on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (400 mm)	20-750-MDCBUS4-nKn	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
DC bus splice	20-750-MDCSPL1-nKn	1	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Control bus assembly (400 mm)	20-750-MCBUS1-IB-F8M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	1 or 2 ⁽³⁾	See Control Bus Connectors on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 153 .
Vent (400 mm wide)	20-750-MVENTn-F8M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket	20-750-MMNT1-F8M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (400 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .

(1) A second control pod can be installed in the control bay when two common bus inverters are installed, side-by-side.

(2) Two fiber transceiver boards are required when a torque accuracy module is used.

(3) A control bus connector is required for the DC link/fuse assembly and torque accuracy module, when used.

Frame 8 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for exit wire bay, right-to-left orientation	
Ground bus bar splice	See Ground Bus Bar Splice on page 153 .
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cable for power module to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

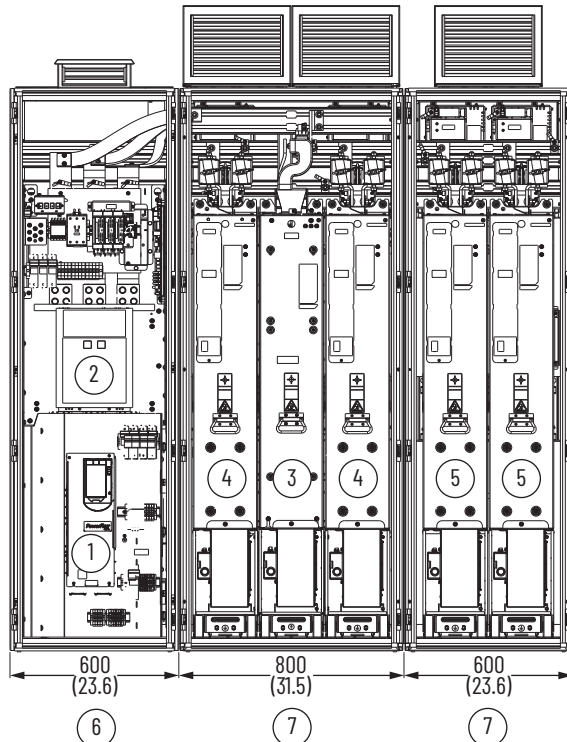
Frame 9 Equivalent PowerFlex 755TL or PowerFlex 755TR Drives

This section provides selection information for frame 9 equivalent PowerFlex 755TL or PowerFlex 755TR drives.

Frame 9 PowerFlex 755TL or TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	920...1465	500...800 kW
480	800...1365	700...1100 Hp
600	595...980	600...1000 Hp
690	565 ...920	560...900 kW

Frame 9 PowerFlex 755TL or 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	5	Motor side inverter
2	AC precharge module	6	Input bay
3	LCL filter	7	Power bay
4	Line side converter		

Frame 9 PowerFlex 755TL or 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (600 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge module	20-750-MACP-xx-F9M	1	For specification and rating information, see AC Precharge Modules on page 127.
Control pod	20-750-MCPODn-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138.
Fiber transceiver boards	20-750-MFTB1-F8	3	See Fiber Transceiver Board on page 139.
Control bus assembly (600 mm)	20-750-MCBUS1-IB-F9M	1	See Control Bus Assemblies on page 153.
AC bus bar splice	20-750-MACSP12-F9M	1	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150.
Vent	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 162.

Frame 9 PowerFlex 755TL or 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Converter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	1	For specification and rating information, see Frame 9 Module Selection on page 118 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 9 Module Selection on page 118 .
LCL filter, line side converter, and motor side inverter back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bar and fuses	20-750-MACLx-F9M	1	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-nKn	1	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-nKn	1	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .
Power Bay (Inverter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn-xnnnxxxx	2	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 9 Module Selection on page 118 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Inverter back panel and stab receptacles (600 mm)	20-750-MIR1-F9M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-nKn	1	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3 ⁽¹⁾	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .
Additional Kits			
DC bus bar splice	20-750-MDCSPL1-3KO	1	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Ground bus bar splice	20-750-MGNDSP1	1	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

(1) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 9 PowerFlex 755TL or 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC input bus bar splice, right-to-left orientation	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
AC bus bars, exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	
EMC C2 filter	See EMC C2 Filter Kits on page 149 .
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

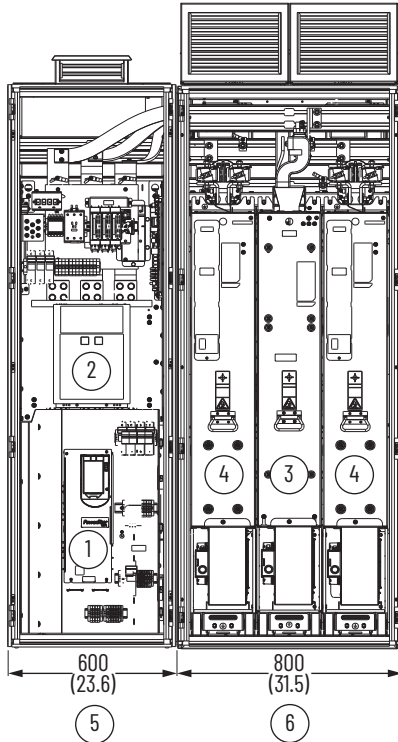
Frame 9 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 9 equivalent PowerFlex 755TM bus supplies.

Frame 9 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	920 ... 1570	572...910 kW
480	800...1404	573...977 kW
600	595...980	518...877 kW
690	565 ...920	580...944 kW

Frame 9 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	4	Line side converter
2	AC precharge module	5	Input bay
3	LCL filter	6	Power bay

Frame 9 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (600 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge module	20-750-MACP-xx-F9M	1	For specification and rating information, see AC Precharge Modules on page 127 .
Control pod	20-750-MCPODn-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	3	See Fiber Transceiver Board on page 139 .
Control bus assembly (600 mm)	20-750-MCBUS1-IB-F9M	1	See Control Bus Assemblies on page 153 .
AC bus bar splice	20-750-MACSP12-F9M	1	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Vent, input bay	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 162 .

Frame 9 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Converter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	1	For specification and rating information, see Frame 9 Module Selection on page 118 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	2	Power module that is configured as a line side converter. For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bar and fuses	20-750-MACLx-F9M	1	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-nKn	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
DC bus bar (800 mm)	20-750-MDCBUS8-nKn	1	
DC bus bar splice	20-750-MDCSPL1-3K0	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-nKn	1	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting bracket	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .

Frame 9 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	
EMC C2 filter	See EMC C2 Filter Kits on page 149 .
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

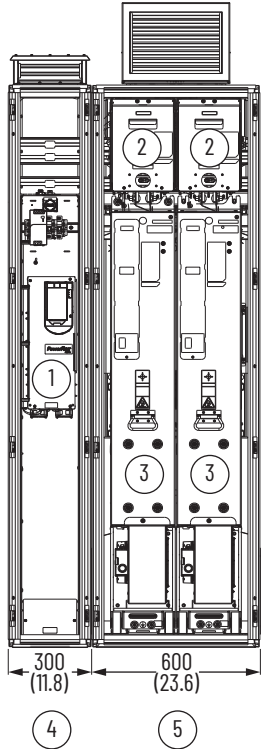
Frame 9 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 9 equivalent PowerFlex 755TM common bus inverters.

Frame 9 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	920...1465	500...800 kW
480	800...1365	700...1100 Hp
600	595...980	600...1000 Hp
690	565 ...920	560...900 kW

Frame 9 PowerFlex 755TM Common Bus Inverter Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 9 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See PowerFlex 755TM Control Bay (Supplier: Rittal) on page 154 for Rittal part number.
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	2 or 3 ⁽¹⁾	See Fiber Transceiver Board on page 139 .
DC bus bar (300 mm)	20-750-MDCBUS3-nKn	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 153 .
Vent (300 mm)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 162 .

Frame 9 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Inverter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (motor side inverter)	20-750-MIn-xnnnnnn	2	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 9 Module Selection on page 118 . For filter options, see Power Modules Options (Frames 7...15 and 71) on page 125 .
Inverter back panel and stab receptacles (600 mm)	20-750-MIRn-F9M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 71) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	2	For specification and rating information, see DC Precharge Modules on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-nKn	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
DC bus splice	20-750-MDCSPL1-3K0	1	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3 ⁽²⁾	See Control Bus Connectors on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 153 .
Vent (600 mm)	20-750-MVENTx-F9M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .

(1) Three fiber transceiver boards are required when a torque accuracy module is used.

(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 9 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139 .
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

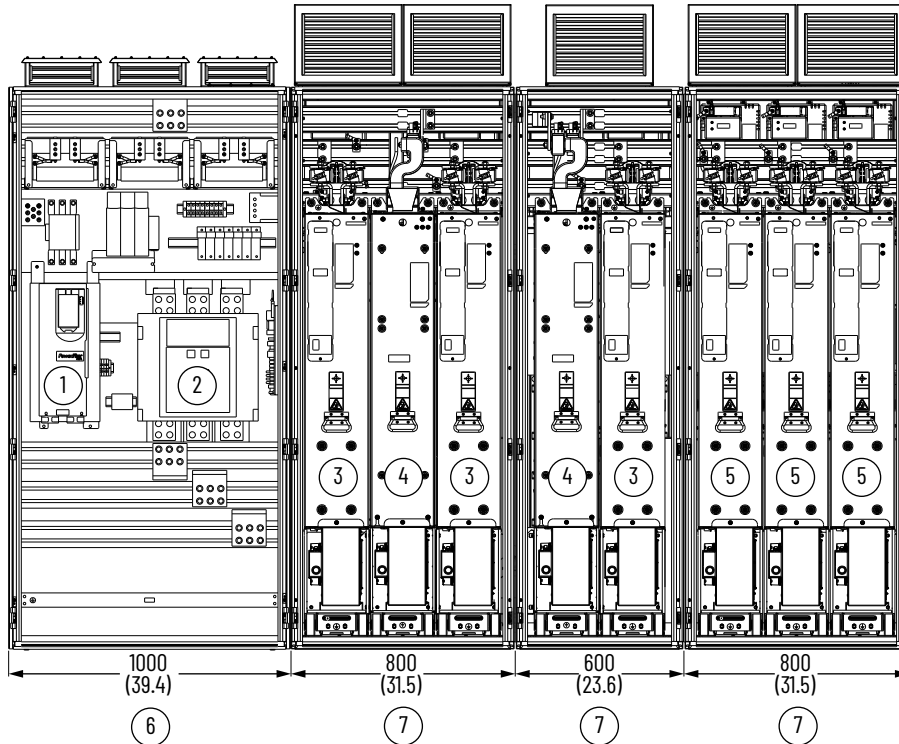
Frame 10 Equivalent PowerFlex 755TL or PowerFlex 755TR Drives

This section provides selection information for frame 10 equivalent PowerFlex 755TL or PowerFlex 755TR drives.

Frame 10 PowerFlex 755TL or TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	1590 ...2156	850...1250 kW
480	1420 ...2072	1250...1800 Hp
600	1045...1430	1100...1500 Hp
690	1030...1419	1000...1400 kW

Frame 10 PowerFlex 755TL or 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	5	Motor side inverter
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter		

Frame 10 PowerFlex 755TL or 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-x-2K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127.
	20-750-MACPCCB-CDE-3K0	1	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	1	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151.
AC precharge fused disconnect	194R-J100-1753	1	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128.
	194R-J200-1753	1	
	194R-D125-1753	1	

Frame 10 PowerFlex 755TL or 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge control board	20-750-MACPC1-xx	1	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F10M	3	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-E116KD11	1	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-E80KD00	1	
Circuit breaker mounting panels	20-750-MIBPNL2-FnnM	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPODn-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	5	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-nKn	2	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
AC bus bar splice	20-750-MACSPL2-nKn	1	For AC bus bar splice kits, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 153 .
Vent (1000 mm)	20-750-MVENTCn-F11M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	1	For specification and rating information, see Frame 10 Module Selection on page 119 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 119 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	1	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-nKn	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-nKn	1	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .
Power Bay (Converter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	1	For specification and rating information, see Frame 10 Module Selection on page 119 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	1	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 119 .
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	1	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	1	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.

Frame 10 PowerFlex 755TL or 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC bus bar (600 mm)	20-750-MDCBUS6-nKn	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (600 mm)	20-750-MACBUS6-nKn	1	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	2	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .
Power Bay (Inverter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn-xnnnxxxx	3	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 10 Module Selection on page 119 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Three motor side inverters back panel and stab receptacles (800 mm)	20-750-MIRn-F10M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	3	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	3	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-nKn	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	3 or 4 ⁽¹⁾	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-nKn	2	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, converter power bay	20-750-MACSPL2-nKn	2	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	2	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	3	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

(1) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 10 PowerFlex 755TL or 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry/exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for entry/exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for entry/exit wire bay, right-to-left orientation	
Bus support panels, entry/exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .

Frame 10 PowerFlex 755TL or 755TR Drive Options (Continued)

Module or Kit Name	Description
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137.
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	
EMC C2 filter	See EMC C2 Filter Kits on page 149.
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161.

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

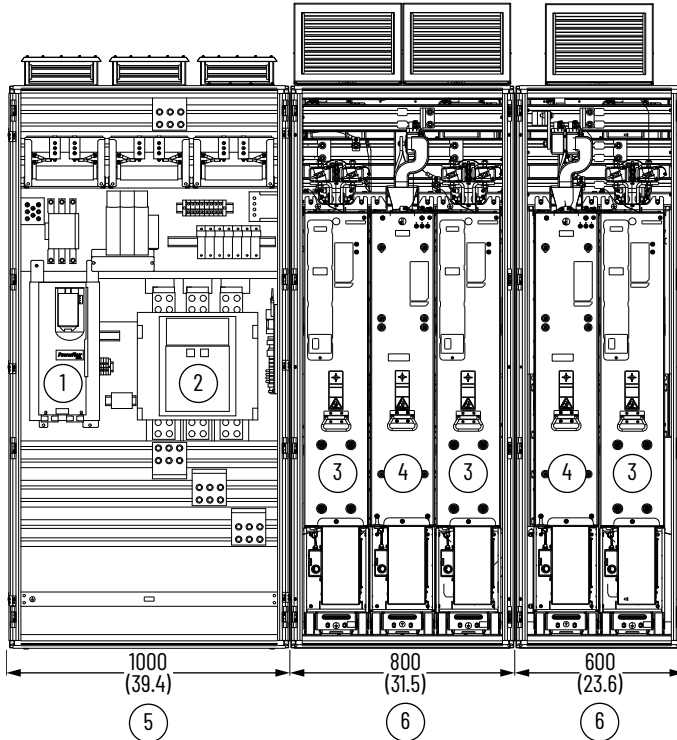
Frame 10 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 10 equivalent PowerFlex 755TM bus supplies.

Frame 10 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	1697...2314	984...1342 kW
480	1460...2131	1016...1483 kW
600	1075...1471	935...1279 kW
690	1057...1456	1057...1456 kW

Frame 10 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	4	LCL filter
2	AC precharge section	5	Input bay
3	Line side converter	6	Power bay

Frame 10 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-x-2K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB-CDE-3K0	1	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	1	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J100-1753	1	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-J200-1753	1	
	194R-D125-1753	1	
AC precharge control board	20-750-MACPC1-xx	1	For specification and rating information, see AC Precharge Control Boards on page 128 .

Frame 10 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge resistor bank	20-750-MACPR-xx-F10M	3	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-E116KD11	1	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-E80KD00	1	
Circuit breaker mounting panels	20-750-MIBPNL2-FnnM	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPODn-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	4	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-nKn	2	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
AC bus bar splice	20-750-MACSP12-nKn	1	For AC bus bar splice kits, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 153 .
Vent (1000 mm)	20-750-MVENTCn-F11M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	1	For specification and rating information, see Frame 10 Module Selection on page 119 .
Power module (Line side converter)	20-750-MLn-xnnnxxxx	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 119 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	1	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	1	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .
Power Bay (Converter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	1	For specification and rating information, see Frame 10 Module Selection on page 119 .
Power module (Line side converter)	20-750-MLn-xnnnxxxx	1	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 119 .
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse	20-750-MDCL1-xx-F8M	1	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	1	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.

Frame 10 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (600 mm)	20-750-MACBUS6-xKx	1	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	2	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-xKx	3	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, converter power bay	20-750-MACSPL2-nKn	2	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	1	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 10 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for entry wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for entry wire bay, right-to-left orientation	
Bus support panels, entry wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	
EMC C2 filter	See EMC C2 Filter Kits on page 149 .
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

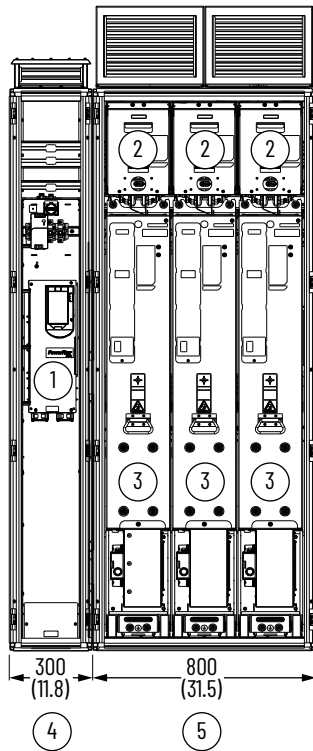
Frame 10 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 10 equivalent PowerFlex 755TM common bus inverters.

Frame 10 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	1590 ...2156	850...1250 kW
480	1420 ...2072	1250...1800 Hp
600	1045...1430	1100...1500 Hp
690	1030...1419	1100...1500 kW

Frame 10 PowerFlex 755TM Common Bus Inverter Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 10 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See PowerFlex 755TM Control Bay (Supplier: Rittal) on page 154 for Rittal part number.
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	3 or 4 ⁽¹⁾	See Fiber Transceiver Board on page 139 .
DC bus bar (300 mm)	20-750-MDCBUS3-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 153 .
Vent, control bay (300 mm)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 162 .

Frame 10 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Inverter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-xnnnxnnn	3	Power module that is configured as a motor side inverter. Choose one set of three modules. For specification and rating information, see Frame 10 Module Selection on page 119 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
	20-750-MI3-xnnnxnnn	3	
Inverter back panel and stab receptacles (800 mm)	20-750-MIRn-F10M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	3	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	3	For specification and rating information, see DC Precharge Modules on page 148 .
DC common mode core	20-750-MDCCM1-F8M	3	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
DC bus splice	20-750-MDCSPL1-xKx	1	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	3 or 4 ⁽²⁾	See Control Bus Connectors on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 153 .
Vent (800 mm)	20-750-MVENTx-F10M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .

(1) Four fiber transceiver boards are required when a torque accuracy module is used.

(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 10 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139 .
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

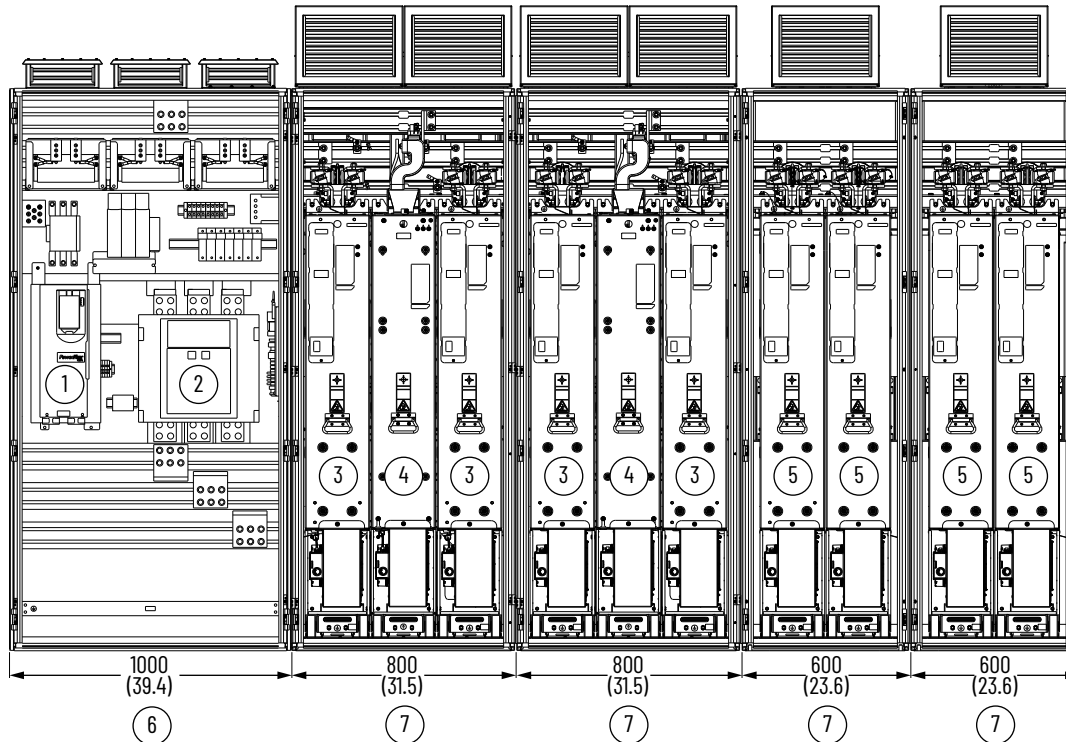
Frame 11 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 11 equivalent PowerFlex 755TR drives.

Frame 11 PowerFlex 755TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	2849	1650 kW
480	2738	2400 Hp
600	1946	2000 Hp
690	1865	1800 kW

Frame 11 PowerFlex 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	5	Motor side inverter
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter		

Frame 11 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-x-2K5	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127.
	20-750-MACPCCB1-CD-4K0	1	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	1	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151.
AC precharge fused disconnect	194R-J200-1753	1	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128.
	194R-D125-1753	1	
AC precharge control board	20-750-MACPC1-xx	1	For specification and rating information, see AC Precharge Control Boards on page 128.

Frame 11 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge resistor bank	20-750-MACPR-xx-F11M	3	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-E116KD11	1	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-D180EA00	1	
Circuit breaker mounting panel	20-750-MIBPNL2-FnnM	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	5	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
AC bus bar splice	20-750-MACSPL2-4K7	1	For AC bus bar splice kits, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 153 .
Vent (1000 mm)	20-750-MVENTx-F11M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxnnn	2	For specification and rating information, see Frame 11 Module Selection on page 120 .
Power module (Line side converter)	20-750-MI2-xnnnxnnn	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 11 Module Selection on page 120 .
LCL filter and two line side converters back panel and stab receptacles	20-750-MACR1-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly, power bay (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Vent, power bay (800 mm)	20-750-MVENTx-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Power Bay (Inverter, 600 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn-xnnnxnnn	4	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 11 Module Selection on page 120 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Two inverters back panel and stab receptacles	20-750-MIRn-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly, power bay (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	4 ⁽¹⁾	See Control Bus Connectors on page 153 .
Vent, power bay (600 mm)	20-750-MVENTx-F9M	2	For specification and rating information, see Ventilation Assemblies on page 162 .

Frame 11 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-xKx	3	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, converter power bay	20-750-MDCSPL2-xKx	2	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	1	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	3	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	4	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

(1) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 11 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry/exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for entry/exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for entry/exit wire bay, right-to-left orientation	
Bus support panels, entry/exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

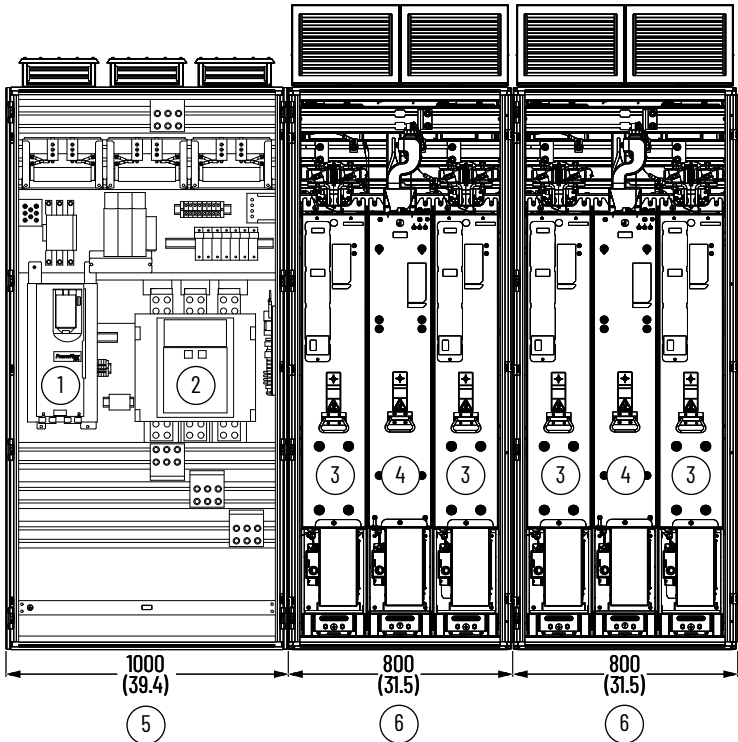
Frame 11 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 11 equivalent PowerFlex 755TM bus supplies.

Frame 11 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	3057	1772 kW
480	2816	1959 kW
600	2001	1740 kW
690	1914	1914 kW

Frame 11 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation
Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	4	LCL filter
2	AC precharge section	5	Input bay
3	Line side converter	6	Power bay

Frame 11 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-x-2K5	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB1-CD-4K0	1	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	1	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J200-1753	1	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-D125-1753	1	
AC precharge control board	20-750-MACPC1-xx	1	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F11M	3	For specification and rating information, see AC Precharge Resistor Banks on page 128 .

Frame 11 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge TVSS module	20-750-MACP-xx-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-E116KD11	1	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-D180EA00	1	
Circuit breaker mounting panel	20-750-MIBPNL2-FnnM	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	4	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
AC bus bar splice	20-750-MACSP12-4K7	1	For AC bus bar splice kits, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 153 .
Vent (1000 mm)	20-750-MVENTx-F11M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	2	For specification and rating information, see Frame 11 Module Selection on page 120 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 11 Module Selection on page 120 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 . AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	2	
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTx-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting bracket	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-xKx	2	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, converter power bay	20-750-MACSP12-4K7	2	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	1	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 11 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for entry wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for entry wire bay, right-to-left orientation	
Bus support panels, entry wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

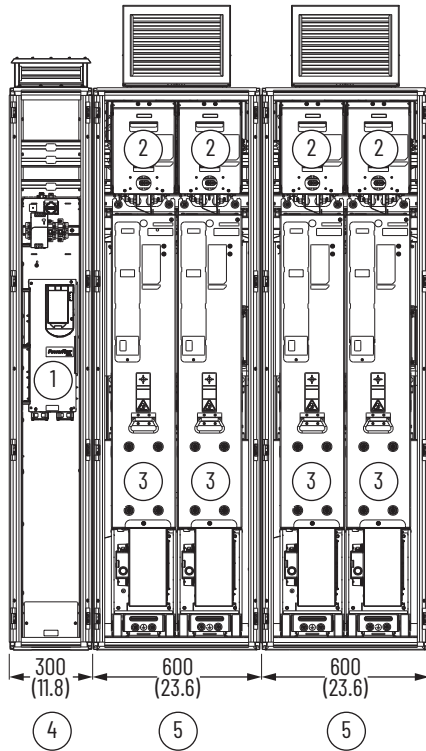
Frame 11 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 11 equivalent PowerFlex 755TM common bus inverters.

Frame 11 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	2849	1650 kW
480	2738	2400 Hp
600	1946	2000 Hp
690	1865	1800 kW

Frame 11 PowerFlex 755TM Common Bus Inverter Major Components - Front View



Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 11 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See PowerFlex 755TM Control Bay (Supplier: Rittal) on page 154 for Rittal part number.
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	3 or 4 ⁽¹⁾	See Fiber Transceiver Board on page 139 .
DC bus bar (300 mm)	20-750-MDCBUS3-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 153 .
Vent (300 mm)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 162 .

Frame 11 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Inverter, 600 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-xnnnxxxx	4	Power module that is configured as a motor side inverter. Choose one set of four modules. For specification and rating information, see Frame 11 Module Selection on page 120 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
	20-750-MI3-xnnnxxxx	4	
Inverter back panel and stab receptacles (600 mm)	20-750-MIRn-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	4	For specification and rating information, see DC Precharge Modules on page 148
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	4 or 5 ⁽²⁾	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENTx-F9M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 162 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	2	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	1	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	1	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 153 .

(1) Four fiber transceiver boards are required when a torque accuracy module is used.

(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 11 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

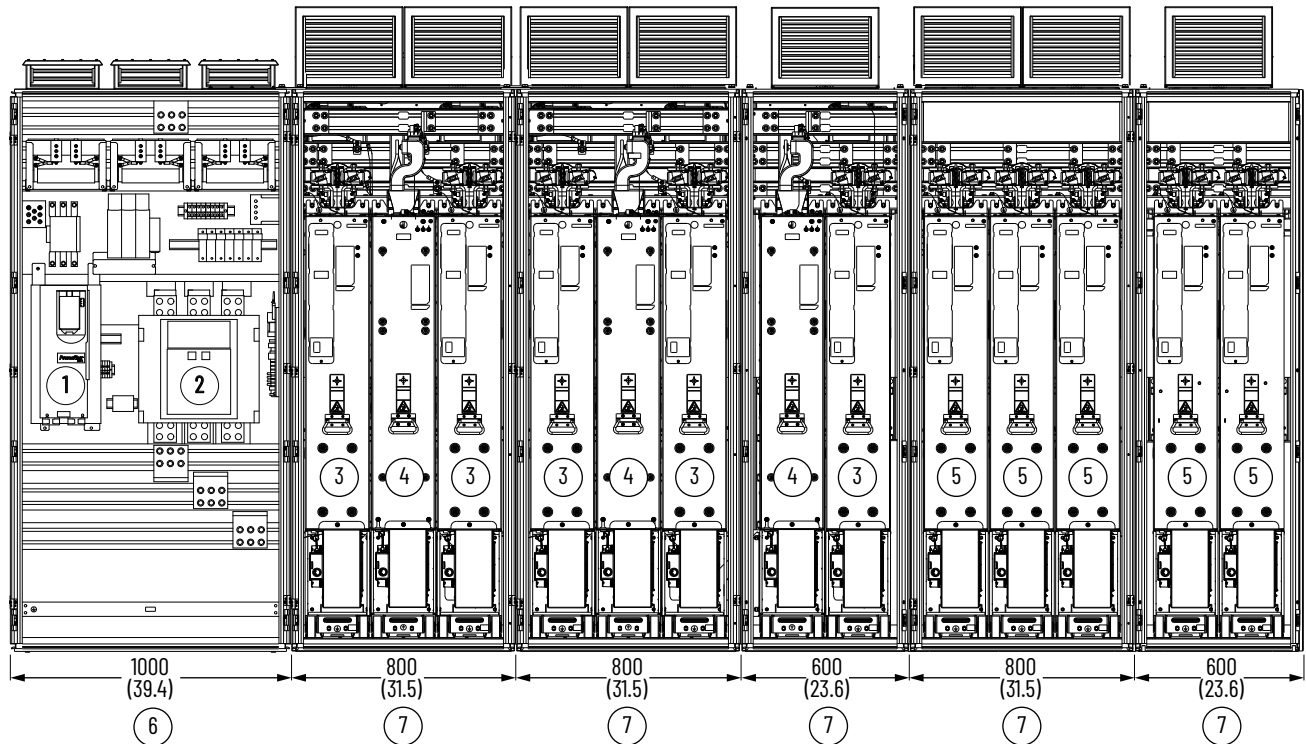
Frame 12 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 12 equivalent PowerFlex 755TR drives.

Frame 12 PowerFlex 755 TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	3542	2000 kW
480	3404	3000 Hp
600	2420	2500 Hp
690	2318	2300 kW

Frame 12 PowerFlex 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	5	Motor side inverter
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter		

Frame 12 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-F-3K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127.
	20-750-MACPCCB1-CD-5K0	1	
	20-750-MACPCCB-CDE-3K0	1	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	1	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151.
AC precharge fused disconnect	194R-J200-1753	1	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128.
	194R-D250-1753	1	

Frame 12 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge control board	20-750-MACPC1-xx	1	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F12M	3	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-D180EA00	1	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-D140EA00	1	
Circuit breaker mounting panels	20-750-MIBPNL2-FnnM	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	7	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
AC bus bar splice	20-750-MACSPL2-4K7	1	For AC bus bar splice kits, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 153 .
Vent, input bay (1000 mm)	20-750-MVENTCn-F11M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	2	For specification and rating information, see Frame 12 Module Selection on page 121 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 121 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	2	AC common mode core assembled with AC Link if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Power Bay (Converter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	1	For specification and rating information, see Frame 12 Module Selection on page 121 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	1	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 121 .
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	1	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	1	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	1	AC common mode core assembled with AC Link if EMC filtering is required.

Frame 12 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (600 mm)	20-750-MACBUS6-xKx	1	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .
Control bus connector	20-750-MCTRLBUS-CONN1	2	See Control Bus Connectors on page 153 .
Power Bay (Inverter, 800 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn-xnnnxxxx	3	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 12 Module Selection on page 121 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Three inverters back panel and stab receptacles (800 mm)	20-750-MIRn-F10M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	3	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	3	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 153 .
Power Bay (Inverter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn-xnnnxxxx	2	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 12 Module Selection on page 121 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Two inverters back panel and stab receptacles (600 mm)	20-750-MIRn-F9M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3 ⁽¹⁾	See Control Bus Connectors on page 153 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	4	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, converter power bay	20-750-MACSPL2-4K7	3	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	1	

Frame 12 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Ground bus bar splice	20-750-MGNDSP1	4	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	5	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

(1) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 12 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

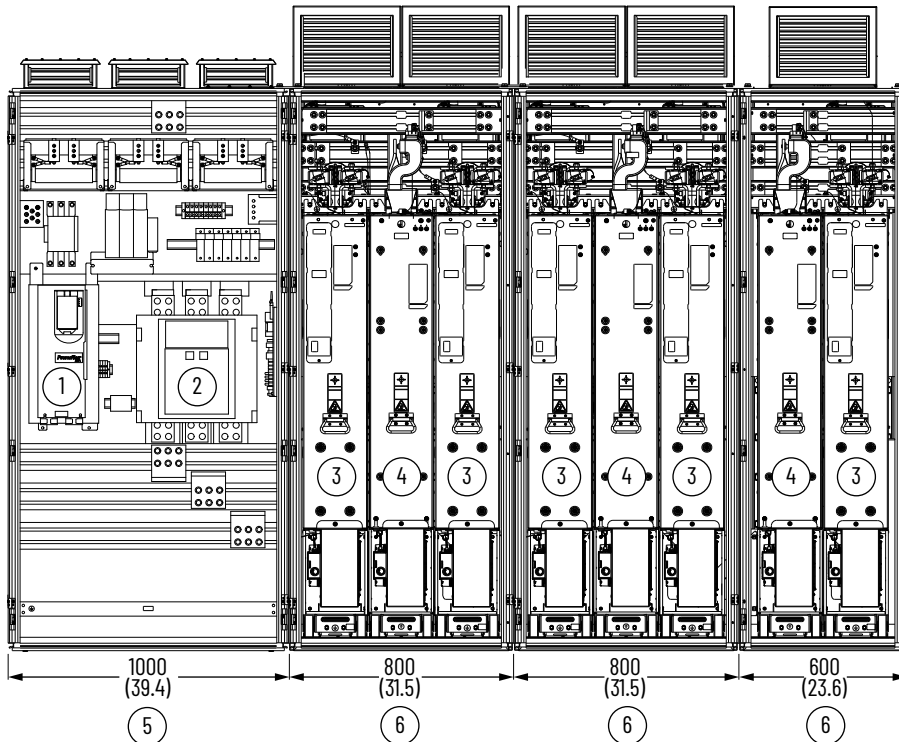
Frame 12 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 12 equivalent PowerFlex 755TM bus supplies.

Frame 12 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	3801	2204 kW
480	3501	2436 kW
600	2489	2164 kW
690	2379	2379 kW

Frame 12 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	4	LCL filter
2	AC precharge module	5	Input bay
3	Line side converter	6	Power bay

Frame 12 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-F-3K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB1-CD-5K0	1	
	20-750-MACPCCB-CDE-3K0	1	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	1	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J200-1753	1	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-D250-1753	1	
AC precharge control board	20-750-MACPC1-xx	1	For specification and rating information, see AC Precharge Control Boards on page 128 .

Frame 12 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge resistor bank	20-750-MACPR-xx-F12M	3	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	1	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-D180EA00	1	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-D140EA00	1	
Circuit breaker mounting panels	20-750-MIBPNL2-FnnM	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	5	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
AC bus bar splice	20-750-MACSPL2-4K7	1	For AC bus bar splice kits, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 153 .
Vent, input bay (1000 mm)	20-750-MVENTCn-F11M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	2	For specification and rating information, see Frame 12 Module Selection on page 121 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 121 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	2	AC common mode core assembled with AC Link if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
Power Bay (Converter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Line side converter)	20-750-MI2-xnnnxxxx	1	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 121 .
LCL filter module	20-750-ML1-xnnnxxxx	1	For specification and rating information, see Frame 12 Module Selection on page 121 .
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	1	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	1	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	1	AC common mode core assembled with AC Link if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .

Frame 12 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC bus bar (600 mm)	20-750-MACBUS6-xKx	1	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	2	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	3	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, converter power bay	20-750-MACSPL2-4K7	3	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	2	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	3	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 12 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cable for AC precharge control board to control pod ⁽¹⁾	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

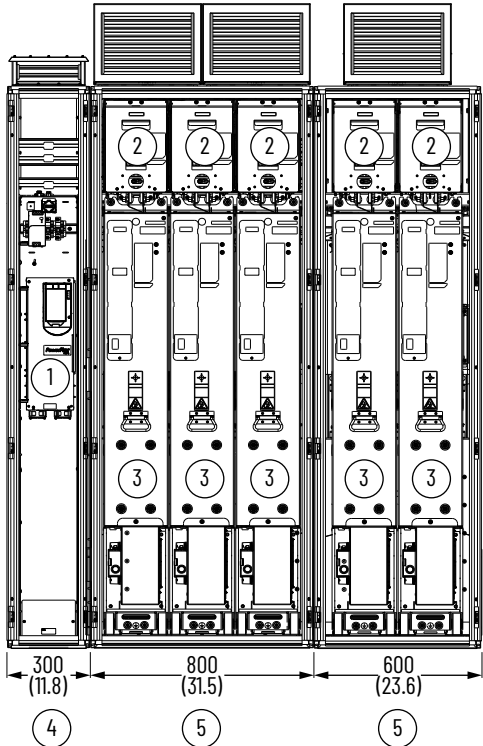
Frame 12 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 12 equivalent PowerFlex 755TM common bus inverters.

Frame 12 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	3542	2000 kW
480	3404	3000 Hp
600	2420	2500 Hp
690	2318	2300 kW

Frame 12 PowerFlex 755TM Common Bus Inverter Major Components



Left-to-Right Orientation
Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	Control pod	4	Control bay
2	DC precharge module	5	Power bay
3	Motor side inverter		

Frame 12 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See PowerFlex 755TM Control Bay (Supplier: Rittal) on page 154 for Rittal part number.
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	4 or 5 ⁽¹⁾	See Fiber Transceiver Board on page 139
DC bus bar (300 mm)	20-750-MDCBUS3-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 153
Vent (300 mm)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 162 .

Frame 12 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Inverter, 800 mm)	—	1	See Cabinet-Level Kits on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-xnnnxxxx	3	Power module that is configured as a motor side inverter. Choose one set of five modules. For specification and rating information, see Frame 12 Module Selection on page 121 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
	20-750-MI3-xnnnxxxx	3	
Inverter back panel and stab receptacles (800 mm)	20-750-MIRn-F10M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	3	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	3	For specification and rating information, see DC Precharge Modules on page 148 .
DC common mode core	20-750-MDCCM1-F8M	3	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 153 .
Vent, power bay (800 mm)	20-750-MVENTx-F10M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 162 .
Power Bay (Inverter, 600 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-xnnnxxxx	2	Power module that is configured as a motor side inverter. Choose one set of five modules. For specification and rating information, see Frame 12 Module Selection on page 121 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
	20-750-MI3-xnnnxxxx	2	
Inverter back panel and stab receptacles (600 mm)	20-750-MIRn-F9M	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	2	For specification and rating information, see DC Precharge Modules on page 148 .
DC common mode core	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	1	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3 ⁽²⁾	See Control Bus Connectors on page 153 .
Vent, power bay (600 mm)	20-750-MVENTx-F9M	1	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 162 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	2	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	1	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	1	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 153 .

(1) Five fiber transceiver boards are required when a torque accuracy module is used.

(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 12 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 161 .

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

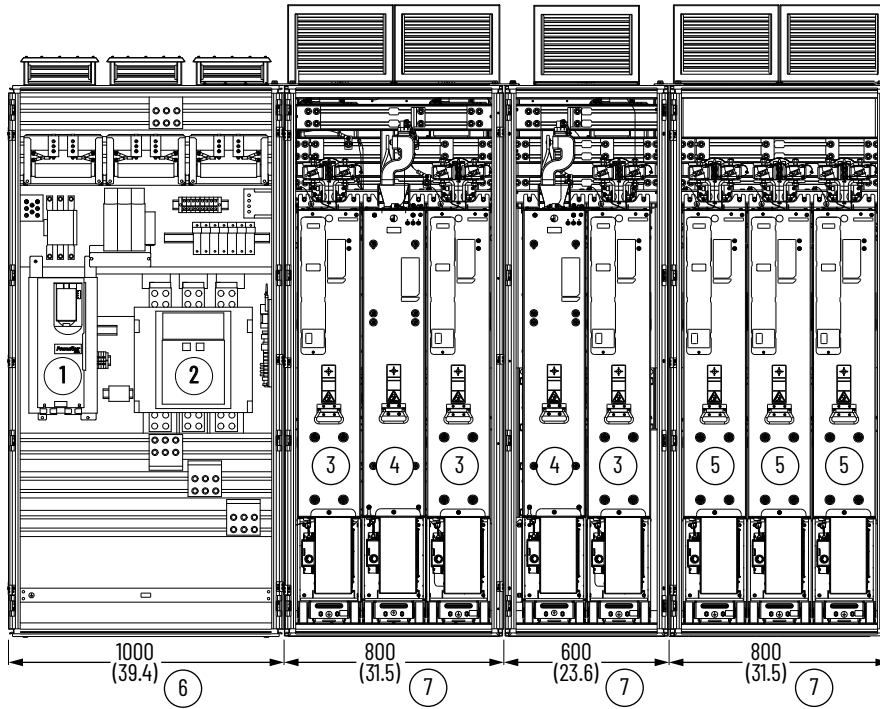
Frame 13 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 13 equivalent PowerFlex 755TR drives.

Frame 13 PowerFlex 755TR Drives Normal Duty Ratings

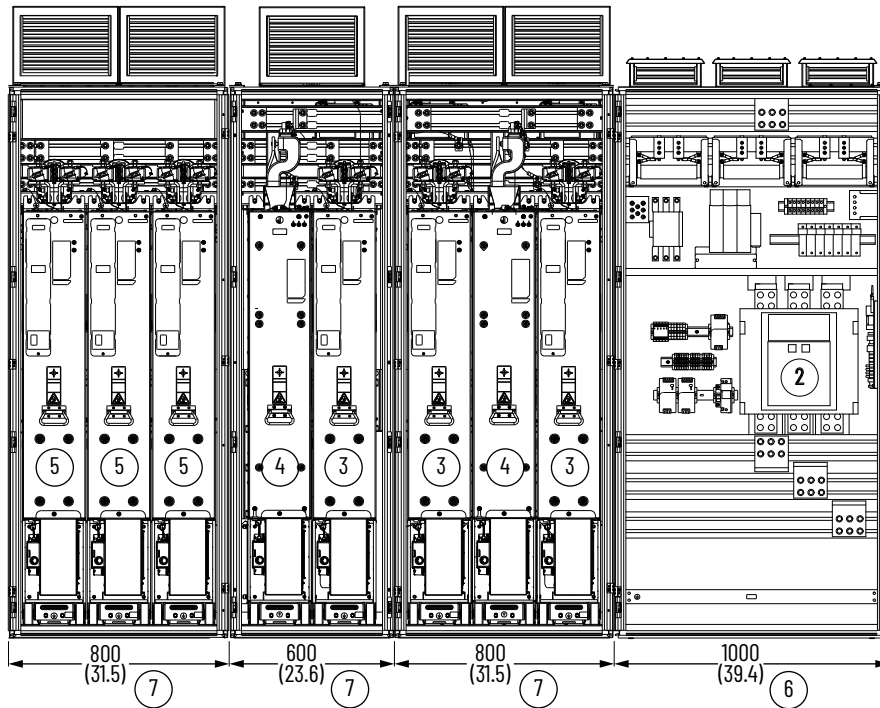
Input Voltage	Amps (AC)	Power Rating
400	4235	2200 kW
480	4070	3600 Hp
600	2998	3100 Hp
690	2778	2750 kW

Frame 13 PowerFlex 755TR Drives Major Components - Front Views



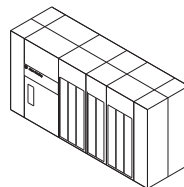
Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.

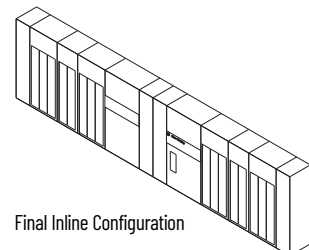


Right-to-Left Orientation

Item	Description	Item	Description
1	Control pod	5	Motor side inverter
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter	Entry and exit wire bays are omitted from this illustration.	



Final Back-to-Back Configuration



Final Inline Configuration

Frame 13 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-x-2K0	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB-CDE-3K0	2	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	2	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J100-1753	2	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-J200-1753	2	
	194R-D125-1753	2	
AC precharge control board	20-750-MACPC1-xx	2	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F10M	6	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	2	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-E116KD11	2	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-E80KD00	2	
Circuit breaker mounting panels	20-750-MIBPNL2-FnnM	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPODn-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	10	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-nKn	4	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
AC bus bar splice	20-750-MACSPL2-nKn	2	For AC bus bar splice kits, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 153 .
Vent (1000 mm)	20-750-MVENTCn-F11M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	2	For specification and rating information, see Frame 13 Module Selection on page 122 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 13 Module Selection on page 122 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode cores	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-nKn	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-nKn	2	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
Power Bay (Converter, 600 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	2	For specification and rating information, see Frame 13 Module Selection on page 122 .

Frame 13 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power module (Line side converter)	20-750-MI2- <i>xnnnxxxx</i>	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 13 Module Selection on page 122 .
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode cores	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6- <i>nKn</i>	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (600 mm)	20-750-MACBUS6- <i>nKn</i>	2	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENT n -F9M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 162 .
Power Bay (Inverter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn- <i>xnnnxxxx</i>	6	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 13 Module Selection on page 122 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Three motor side inverters back panel and stab receptacles (800 mm)	20-750-MIRn-F10M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	6	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	6	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8- <i>nKn</i>	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENT n -F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
Wire Entry/Exit Bay (400 mm) (Inline Configuration Only)	—	4	See PowerFlex 755TM Top Entry/Exit Wire Bays (Supplier: Rittal) on page 155 for Rittal part number.
AC bus bars (400 mm)	20-750-MTEBUS2-3K0	4	For specification and rating information, Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Wire Entry Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400-FBR, or 20-750-DCVBB-400C-FBR	1	Choose one of the entry wire bay kits. See Frame 13 Drive and NRS System (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation) on page 159 .
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400, or 20-750-DCVBB-400C	1	Choose one of the DC voltage balance bay kits. See Frame 13 Drive and NRS System (Back-to-Back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation) on page 158 .
Additional Kits			
DC bus splice	20-750-MDCSPL1- <i>nKn</i>	6	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .

Frame 13 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC bus splice, converter power bay and wire entry bay	20-750-MACSP2- <i>nKn</i>	6	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
AC bus splice, wire exit bay	20-750-MTESPL n -F1 n M	2	
Ground bus bar splice	20-750-MGNDSP1	8	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	10	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 13 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry/exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for entry/exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for entry/exit wire bay, right-to-left orientation	
Bus support panels, entry/exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cables for AC precharge control boards to control pods ⁽¹⁾	

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

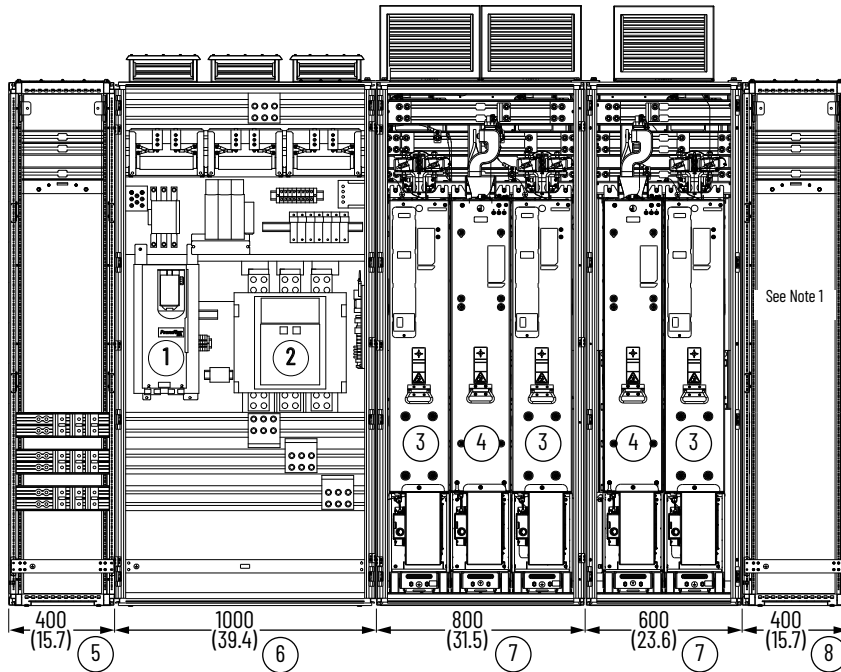
Frame 13 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 13 equivalent PowerFlex 755TM bus supplies.

Frame 13 PowerFlex 755TM Bus Supplies Normal Duty Ratings

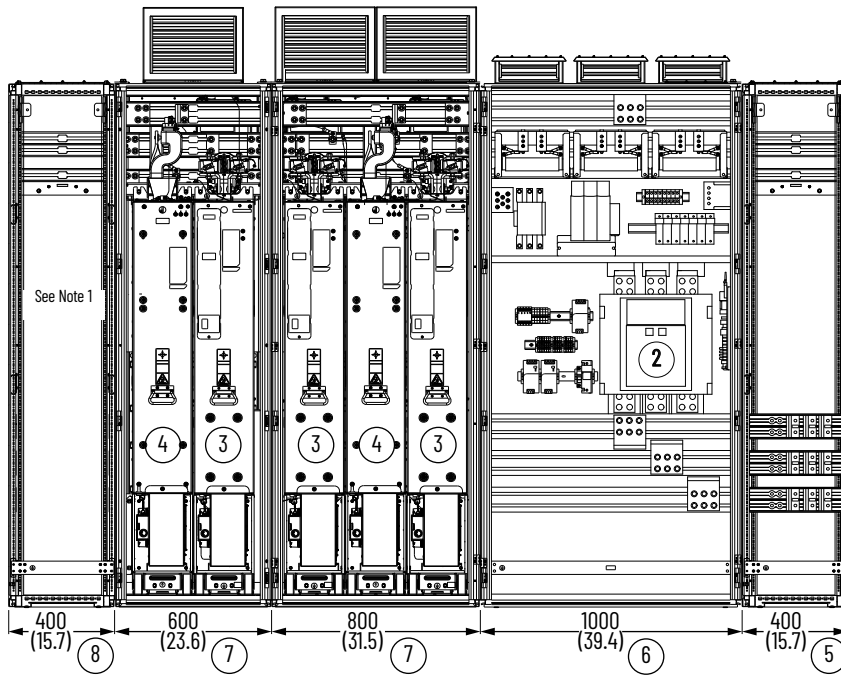
Input Voltage	Amps (DC)	Power Rating
400	4546	2634 kW
480	4186	2912 kW
600	3080	2678 kW
690	2849	2849 kW

Frame 13 PowerFlex 755TM Bus Supply Major Components - Front Views



Left-to-Right Orientation

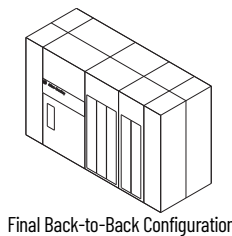
Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.



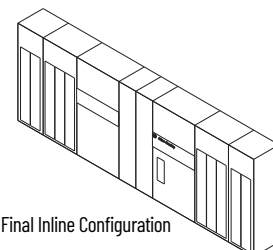
Right-to-Left Orientation

Note 1: 400 mm (15.7 in.) voltage balance bay only used with back-to-back configuration.

Item	Description	Item	Description
1	Control pod	5	Entry wire bay
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter	8	Voltage balance bay



Final Back-to-Back Configuration



Final Inline Configuration

Frame 13 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-x-2K0	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB-CDE-3K0	2	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	2	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J100-1753	2	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-J200-1753	2	
	194R-D125-1753	2	
AC precharge control board	20-750-MACPC1-xx	2	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F10M	2	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	2	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-E116KD11	2	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-E80KD00	2	
Circuit breaker mounting panels	20-750-MIBPNL2-FnnM	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPODn-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	8	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-nKn	4	For bus material, see Frame 8...15 AC Input Bus Bars on page 150 .
AC bus bar splice	20-750-MACSPL2-nKn	2	For AC bus bar splice kits, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 153 .
Vent (1000 mm)	20-750-MVENTCn-F11M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnnnnn	2	For specification and rating information, see Frame 13 Module Selection on page 122 .
Power module (Line side converter)	20-750-MLn-xnnnnnnn	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 13 Module Selection on page 122 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
Power Bay (Converter, 600 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnnnnn	2	For specification and rating information, see Frame 13 Module Selection on page 122 .

Frame 13 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power module (Line side converter)	20-750-MLn-xnnnxxxx	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 13 Module Selection on page 122 .
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (600 mm)	20-750-MACBUS6-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 162 .
Wire Entry/Exit Bay (400 mm) (Inline Configuration Only)	—	2	See PowerFlex 755TM Top Entry/Exit Wire Bays (Supplier: Rittal) on page 155 for Rittal part number.
AC bus bars (400 mm)	20-750-MTEBUS2-3K0	2	For specification and rating information, see Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
DC bus bars (400 mm)	20-750-MDCBUS4-nKn	2	For specification and rating information, see Frame 8...15 DC Bus Bars on page...
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Wire Entry Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400-FBR, or 20-750-DCVBB-400C-FBR	1	Choose one of the entry wire bay kits. See Frame 13 Drive, Bus Supply and NRS System (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation) on page 160 .
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Frame 13...15 Bus Supply and NRS System (Back-to-Back Configuration) DC Voltage Balance Bay (Supplier: Rockwell Automation) on page 160 .
Additional Kits			
DC bus splice (inline configuration)	20-750-MDCSPL1-nKn	7	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
DC bus splice (back-to-back configuration)		8	
AC bus splice, converter power bay and entry wire bay	20-750-MACSPL2-nKn	6	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	6	See Ground Bus Bar Splice on page 153 .
Control bus splice (Inline configuration)	20-750-MCTRLBUS-SPL	6	See Control Bus Splice on page 153 .
Control bus splice (back-to-back configuration)		8	
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 13 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for entry wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for entry wire bay, right-to-left orientation	

Frame 13 PowerFlex 755TM Bus Supply Options (Continued)

Module or Kit Name	Description
Bus support panels, entry wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161.
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131.
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137.
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cables for AC precharge control boards to control pods ⁽¹⁾	

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

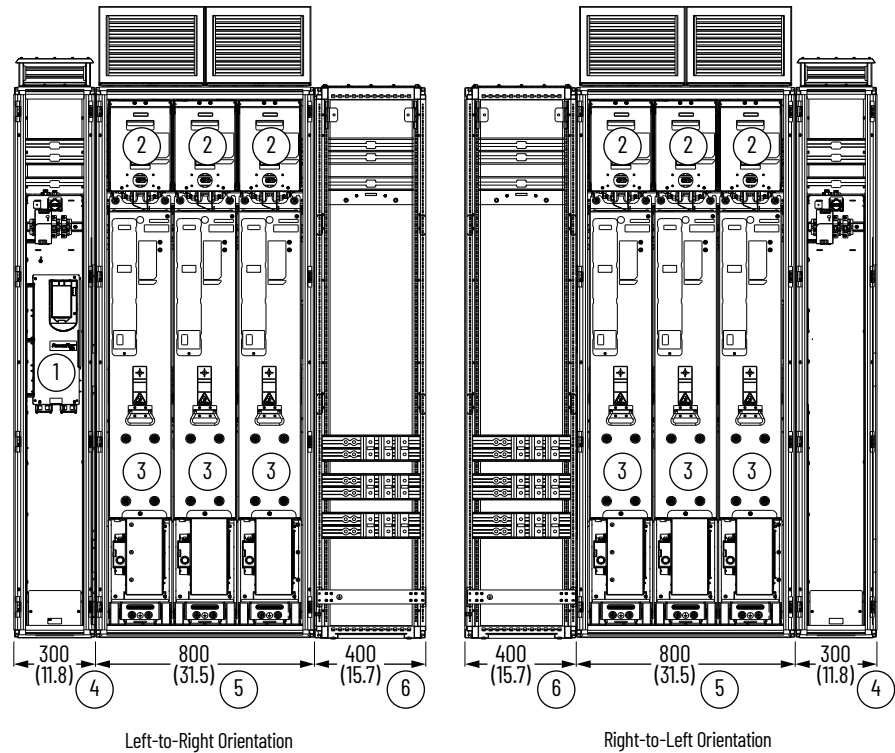
Frame 13 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 13 equivalent PowerFlex 755TM common bus inverters.

Frame 13 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

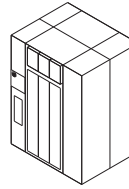
Input Voltage	Amps (AC)	Power Rating
400	4235	2200 kW
480	4070	3600 Hp
600	2998	3100 Hp
690	2778	2750 kW

Frame 13 PowerFlex 755TM Common Bus Inverter Major Components



Frame 13 PowerFlex 755TM Common Bus Inverter Major Components

Item	Description	Item	Description
1	Control pod	4	Control bay
2	DC precharge module	5	Power bay
3	Motor side inverter	6	Voltage balance bay



Final Back-to-Back Configuration

Frame 13 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	2	See PowerFlex 755TM Control Bay (Supplier: Rittal) on page 154 for Rittal part number.
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	6 or 7 ⁽¹⁾	See Fiber Transceiver Board on page 139 .
DC bus bar (300 mm)	20-750-MDCBUS3-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	2	See Control Bus Assemblies on page 153 .
Vent, control bay (300 mm)	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power Bay (Inverter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-xnnnnnnn	6	Power module that is configured as a motor side inverter. Choose one set of three modules. For specification and rating information, see Frame 13 Module Selection on page 122 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
	20-750-MI3-xnnnnnnn	6	
Inverter back panel and stab receptacles (800 mm)	20-750-MIRn-F10M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	6	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	6	For specification and rating information, see DC Precharge Modules on page 148 .
DC common mode core	20-750-MDCCM1-F8M	6	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
DC bus splice	20-750-MDCSPL1-xKx	2	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	6 or 7 ⁽²⁾	See Control Bus Connectors on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 153 .
Vent (800 mm)	20-750-MVENTx-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400, or 20-750-DCVBB-400C	1	Choose one of the DC voltage balance bay kits. See Frame 13 Drive, Common Bus Inverter, and NRS System (Back-to-Back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation) on page 158 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-nKn	4	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, wire exit bay	20-750-MTESPLn-F1nM	2	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	4	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	4	See Control Bus Splice on page 153 .

(1) Seven fiber transceiver boards are required when a torque accuracy module is used.

(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 13 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

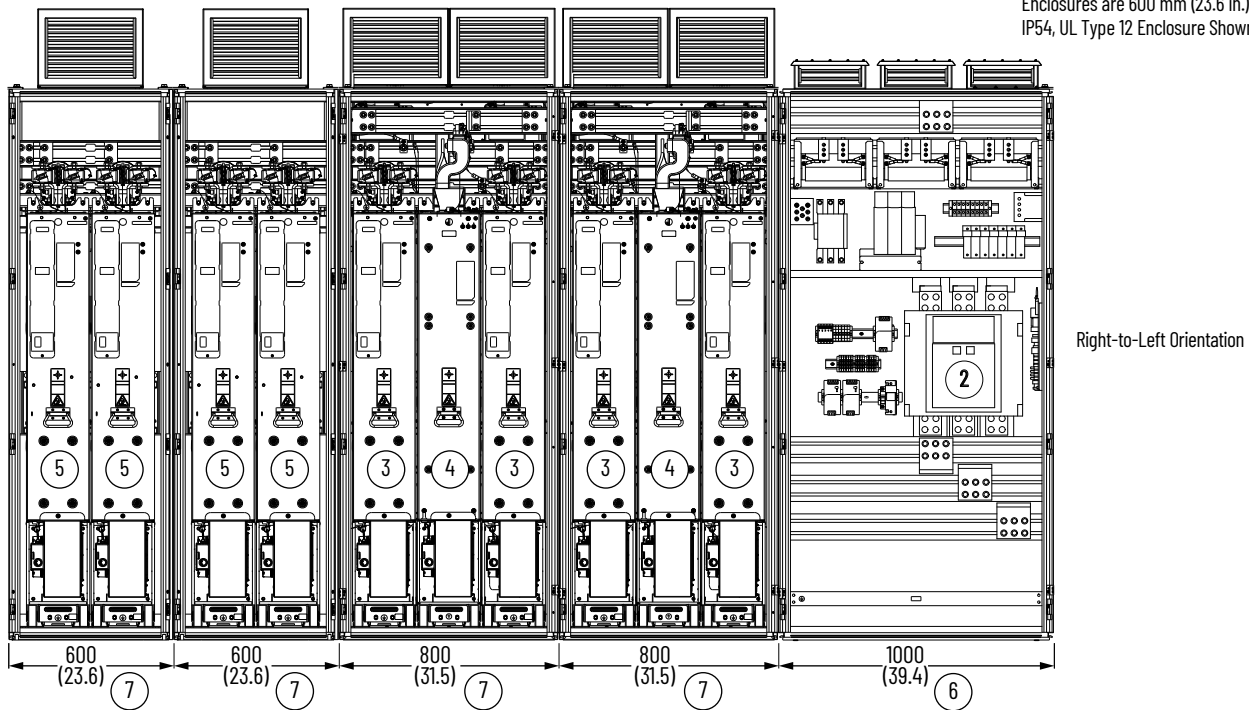
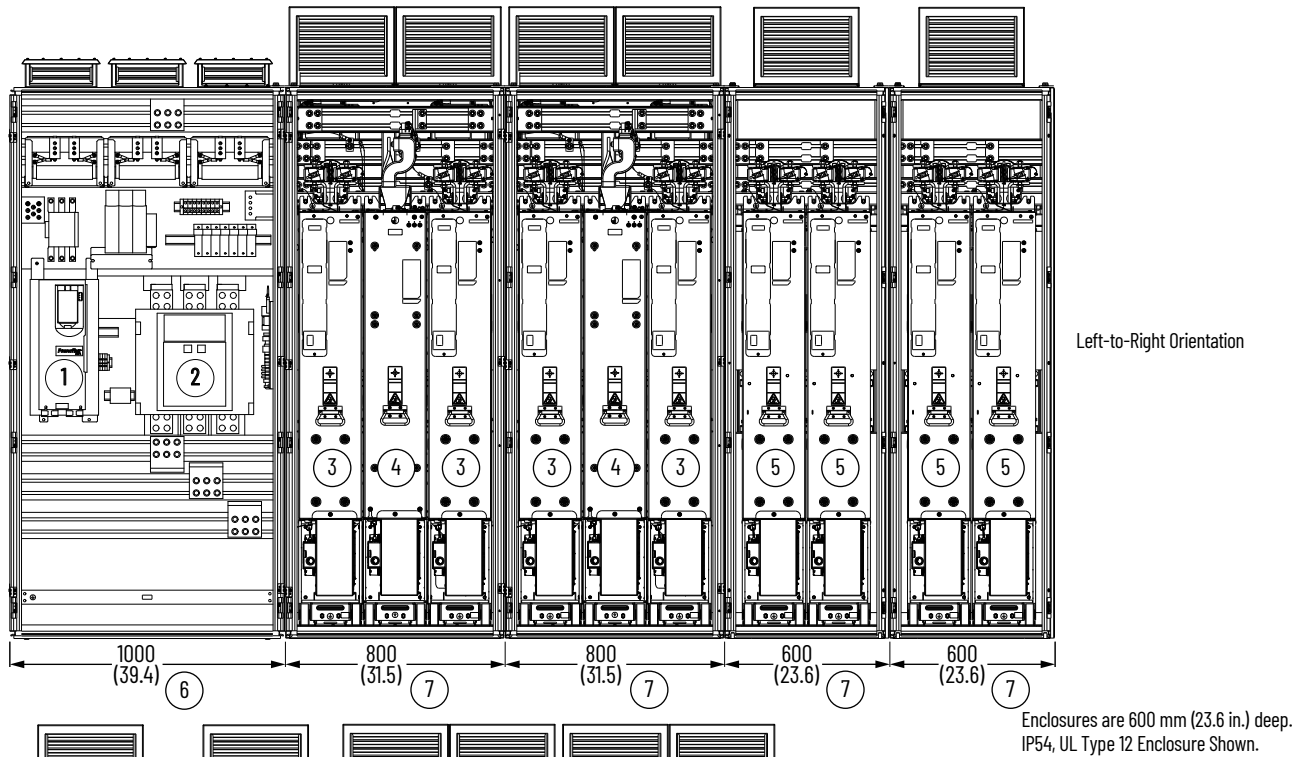
Frame 14 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 14 equivalent PowerFlex 755TR drives.

Frame 14 PowerFlex 755TR Drives Normal Duty Ratings

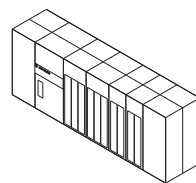
Input Voltage	Amps (AC)	Power Rating
400	5621	2920 kW
480	5402	4800 Hp
600	3979	4100 Hp
690	3687	3650 kW

Frame 14 PowerFlex 755TR Drive Major Components - Front Views

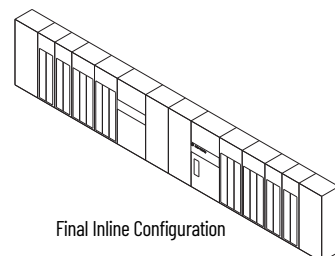


Item	Description	Item	Description
1	Control pod	5	Motor side inverter
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter		

Entry and exit wire bays are omitted from this illustration.



Final Back-to-Back Configuration



Final Inline Configuration

Frame 14 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-x-2K5	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB1-CD-4K0	2	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	2	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J200-1753	2	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-D125-1753	2	
AC precharge control board	20-750-MACPC1-xx	2	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F11M	6	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	2	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-E116KD11	2	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-D180EA00	2	
Circuit breaker mounting panel	20-750-MIBPNL2-FnnM	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	10	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-xKx	4	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 153 .
Vent (1000 mm)	20-750-MVENTx-F11M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	4	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnnnnn	4	For specification and rating information, see Frame 14 Module Selection on page 123 .
Power module (Line side converter)	20-750-MI2-xnnnnnnn	8	Power module that is configured as a line side converter. For specification and rating information, see Frame 14 Module Selection on page 123 .
LCL filter and two line side converters back panel and stab receptacles	20-750-MACR1-F9M	4	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	8	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	4	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	4	For selection information, see AC Common Mode Core on page 151 . AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	4	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	4	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly, power bay (800 mm)	20-750-MCBUS1-PB-F10M	4	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	12	See Control Bus Connectors on page 153 .
Vent, power bay (800 mm)	20-750-MVENTx-F10M	4	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	4	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	4	
Power Bay (Inverter, 600 mm)	—	4	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn-xnnnnnnn	8	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 14 Module Selection on page 123 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Two inverters back panel and stab receptacles	20-750-MIRn-F9M	4	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	8	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .

Frame 14 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	4	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly, power bay (600 mm)	20-750-MCBUS1-PB-F9M	4	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	8	See Control Bus Connectors on page 153 .
Vent, power bay (600 mm)	20-750-MVENTx-F9M	4	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	4	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Wire Entry/Exit Bay (800 mm) (Inline Configuration Only)	—	4	See PowerFlex 755TM Top Entry/Exit Wire Bays (Supplier: Rittal) on page 155 for Rittal part number.
AC bus bars (800 mm)	20-750-MTEBUS1-4K7	4	For specification and rating information, Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Frame 14 and 15 Drive, Bus Supply and NRS System (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation) on page 160 .
DC Voltage Balance Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800	1	See Frame 14 and 15 Drive, Common Bus Inverter, and NRS System (Back-to-back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation) on page 159 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-nKn	8	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, converter power bay and wire entry bay	20-750-MACSPL2-4K7	6	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	2	
AC bus splice, wire exit bay	20-750-MTESPLn-F1nM	2	
Ground bus bar splice	20-750-MGNDSP1	10	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	12	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 14 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry/exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for entry/exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for entry/exit wire bay, right-to-left orientation	
Bus support panels, entry/exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cables for AC precharge control boards to control pods ⁽¹⁾	

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

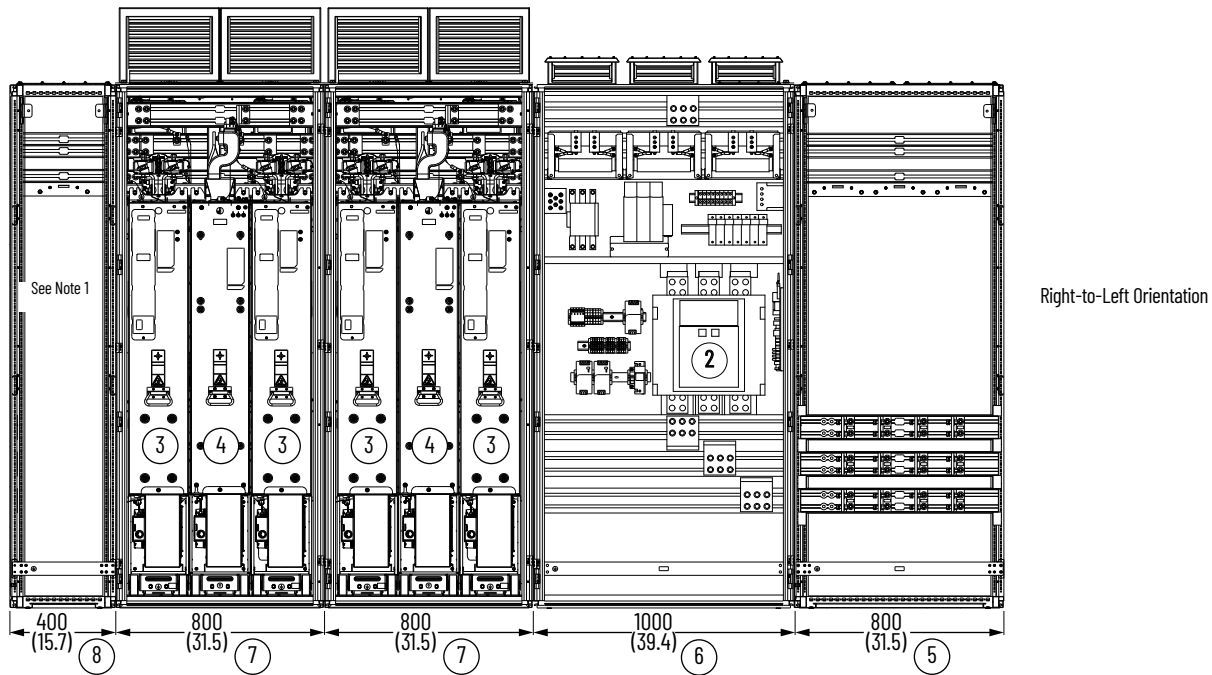
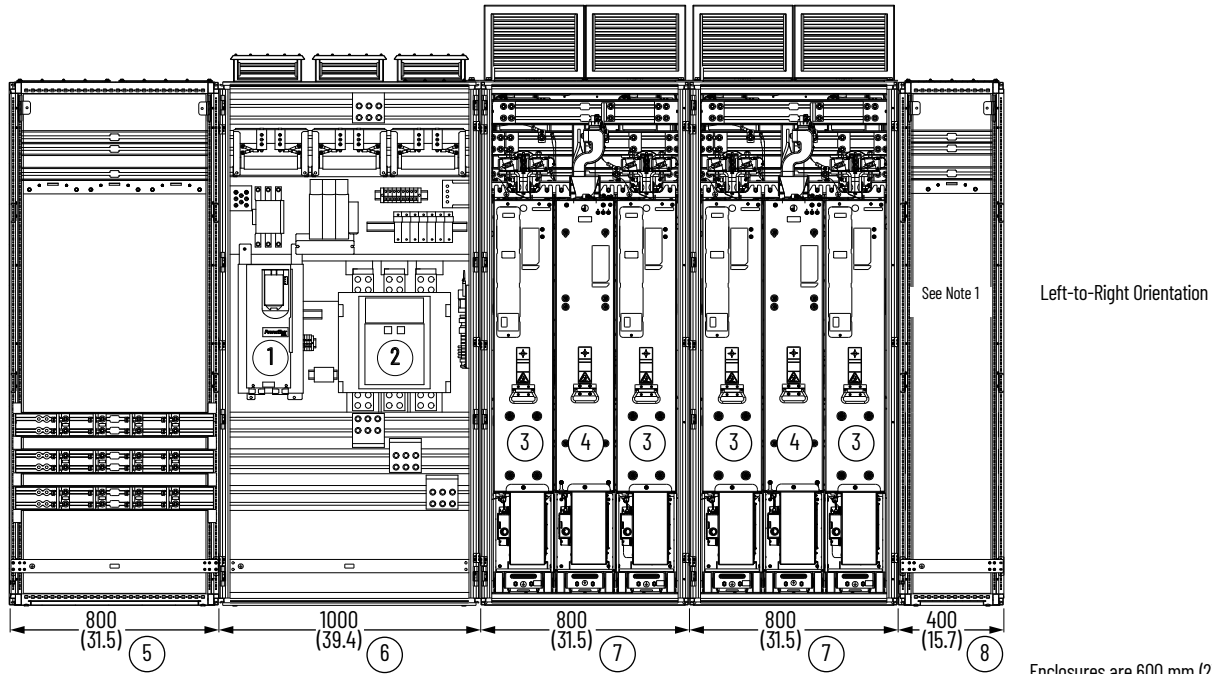
Frame 14 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 14 equivalent PowerFlex 755TM bus supplies.

Frame 14 PowerFlex 755TM Bus Supplies Normal Duty Ratings

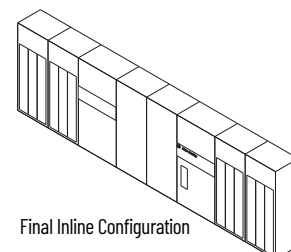
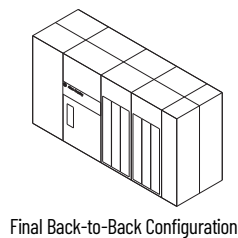
Input Voltage	Amps (DC)	Power Rating
400	6030	3496 kW
480	5555	3865 kW
600	4088	3555 kW
690	3781	3781 kW

Frame 14 PowerFlex 755TM Bus Supply Major Components - Front Views



Note 1: 400 mm (15.7 in.) voltage balance bay only used with back-to-back configuration.

Item	Description	Item	Description
1	Control pod	5	Entry wire bay
2	AC precharge section	6	Input bay
3	LCL filter	7	Power bay
4	Line side converter	8	Voltage balance bay



Frame 14 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-x-2K5	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB1-CD-4K0	2	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	2	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J200-1753	2	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-D125-1753	2	
AC precharge control board	20-750-MACPC1-xx	2	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F11M	6	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	2	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-E116KD11	2	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-D180EA00	2	
Circuit breaker mounting panel	20-750-MIBPNL2-FnnM	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	8	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-xKx	4	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 153 .
Vent (1000 mm)	20-750-MVENTx-F11M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800mm)	—	4	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	4	For specification and rating information, see Frame 14 Module Selection on page 123 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	8	Power module that is configured as a line side converter. For specification and rating information, see Frame 14 Module Selection on page 123 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	4	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	8	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode cores	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	4	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 . AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	4	
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	4	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	4	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly	20-750-MCBUS1-PB-F10M	4	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	12	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTx-F10M	4	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting bracket	20-750-MMNT1-F10M	4	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	4	
Baffle (800 mm)	20-750-MIBAF1-F10M	4	See Baffle Assemblies on page 162 .
Wire Entry/Exit Bay (800 mm) (Inline Configuration Only)	—	2	See PowerFlex 755TM Top Entry/Exit Wire Bays (Supplier: Rittal) on page 155 for Rittal part number.
AC bus bars (800 mm)	20-750-MTEBUS1-4K7	2	For specification and rating information, see Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
DC bus bars (800 mm)	20-750-MDCBUS8-nKn	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .

Frame 14 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Bus support panels, upper and lower (wire bay)	20-750-MWBPML1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Frame 14 and 15 Drive, Bus Supply and NRS System (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation) on page 160 .
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Frame 14 and 15 Drive, Common Bus Inverter, and NRS System (Back-to-back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation) on page 159 .
Additional Kits			
DC bus splice (inline configuration)	20-750-MDCSPL1-nKn	7	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
DC bus splice (back-to-back configuration)		8	
AC bus splice, converter power bay and entry wire bay	20-750-MACSPL2-4K7	6	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	6	See Ground Bus Bar Splice on page 153 .
Control bus splice (Inline configuration)	20-750-MCTRLBUS-SPL	6	See Control Bus Splice on page 153
Control bus splice (back-to-back configuration)		8	
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 14 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for entry wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for entry wire bay, right-to-left orientation	
Bus support panels, entry wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cables for AC precharge control boards to control pods ⁽¹⁾	

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

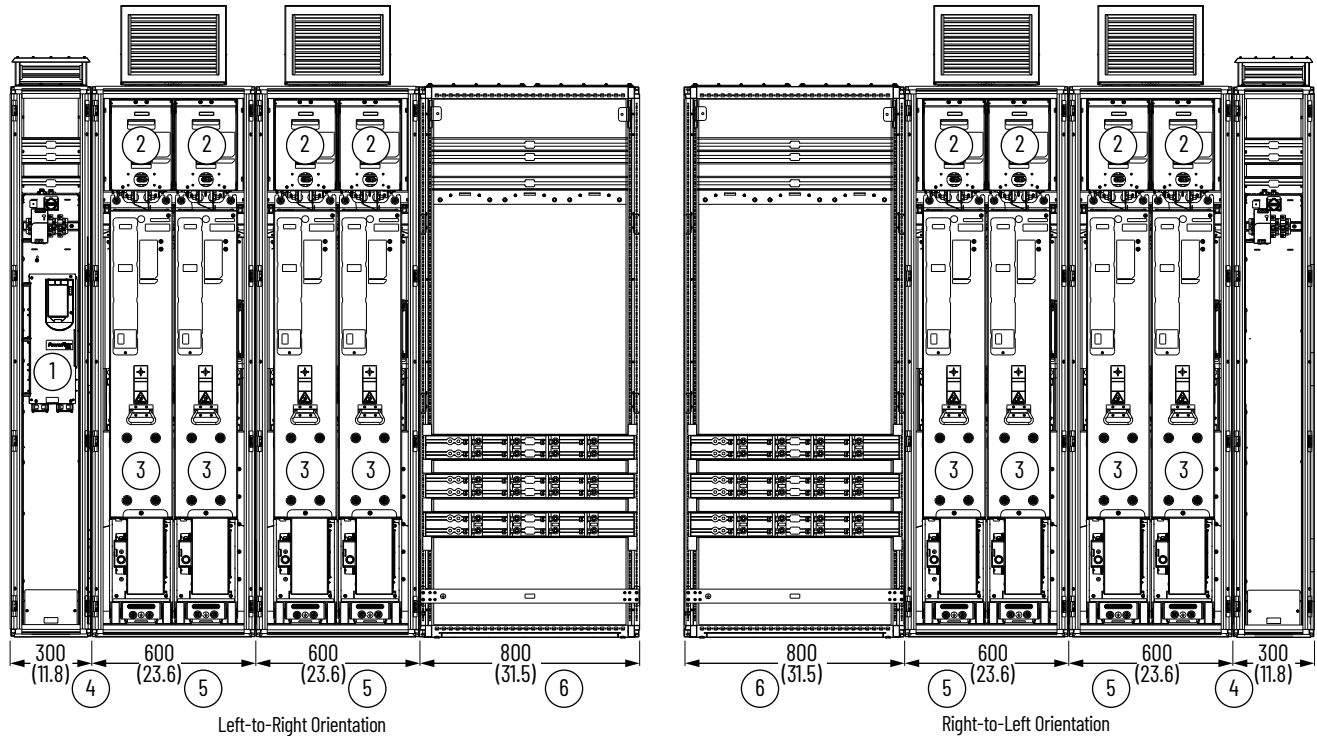
Frame 14 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 14 equivalent PowerFlex 755TM common bus inverters.

Frame 14 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

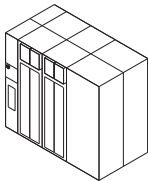
Input Voltage	Amps (AC)	Power Rating
400	5621	2920 kW
480	5402	4800 Hp
600	3979	4100 Hp
690	3687	3650 kW

Frame 14 PowerFlex 755TM Common Bus Inverter Major Components - Front Views



Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay
6	Voltage balance bay



Final Back-to-Back Configuration

Frame 14 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	2	See PowerFlex 755TM Control Bay (Supplier: Rittal) on page 154 for Rittal part number.
Control pod	20-750-MCPOD4-F8M	1	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	6 or 7 ⁽¹⁾	See Fiber Transceiver Board on page 139 .
DC bus bar (300 mm)	20-750-MDCBUS3-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	2	See Control Bus Assemblies on page 153 .

Frame 14 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Vent (300 mm)	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power Bay (Inverter, 600 mm)	—	4	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-xnnnnnnn	8	Power module that is configured as a motor side inverter. Choose one set of four modules.
	20-750-MI3-xnnnnnnn	8	For specification and rating information, see Frame 14 Module Selection on page 123 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Inverter back panel and stab receptacles (600 mm)	20-750-MIRn-F9M	4	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	8	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	8	For specification and rating information, see DC Precharge Modules on page 148
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	4	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	4	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	8 or g(2)	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENTx-F9M	4	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket	20-750-MMNT1-F9M	4	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	4	See Baffle Assemblies on page 162 .
DC Voltage Balance Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800	1	See Frame 14 and 15 Drive, Common Bus Inverter, and NRS System (Back-to-back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation) on page 159 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	6	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	2	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	5	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	6	See Control Bus Splice on page 153 .

(1) Seven fiber transceiver boards are required when a torque accuracy module is used.

(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 14 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus bar splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

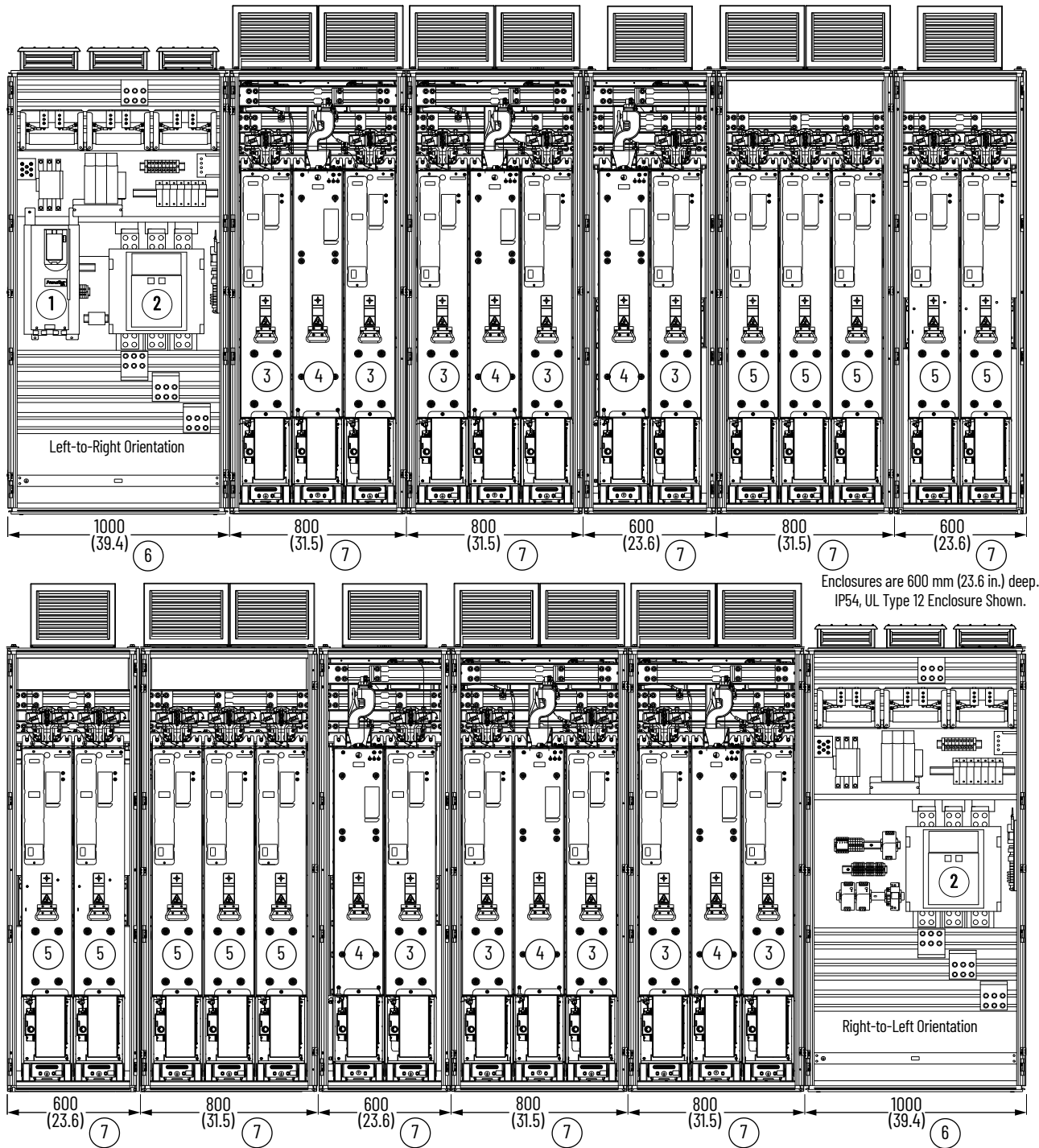
Frame 15 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 15 equivalent PowerFlex 755TR drives.

Frame 15 PowerFlex 755 TR Drives Normal Duty Ratings

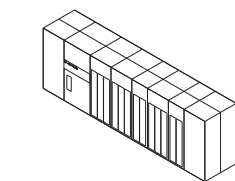
Input Voltage	Amps (AC)	Power Rating
400	7007	3640 kW
480	6734	6000 Hp
600	4960	5100 Hp
690	4596	4550 kW

Frame 15 PowerFlex 755TR Drive Major Components - Front Views

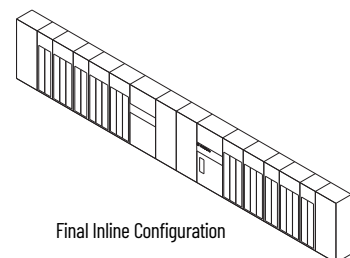


Item	Description	Item	Description
1	Control pod	5	Motor side inverter
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter		

Entry and exit wire bays are omitted from this illustration.



Final Back-to-Back Configuration



Final Inline Configuration

Frame 15 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-F-3K0	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB1-CD-5K0	2	
	20-750-MACPCCB-CDE-3K0	2	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-nxn	2	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J200-1753	2	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-D250-1753	2	
AC precharge control board	20-750-MACPC1-xx	2	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F12M	6	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	2	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-D180EA00	2	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-D140EA00	2	
Circuit breaker mounting panels	20-750-MIBPNL2-FnnM	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPOD4-F8M	2	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	11	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-xKx	4	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 153 .
Vent, input bay (1000 mm)	20-750-MVENTCn-F11M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	4	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	4	For specification and rating information, see Frame 15 Module Selection on page 124 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	8	Power module that is configured as a line side converter. For specification and rating information, see Frame 15 Module Selection on page 124 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	4	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	8	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	4	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	4	AC common mode core assembled with AC Link if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	4	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	4	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	4	See Control Bus Assemblies on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	4	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	4	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	4	
Baffle (800 mm)	20-750-MIBAF1-F10M	4	See Baffle Assemblies on page 162 .
Control bus connector	20-750-MCTRLBUS-CONN1	8	See Control Bus Connectors on page 153 .
Power Bay (Converter, 600 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1-xnnnxxxx	2	For specification and rating information, see Frame 15 Module Selection on page 124 .
Power module (Line side converter)	20-750-MI2-xnnnxxxx	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 15 Module Selection on page 124 .

Frame 15 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	2	AC common mode core assembled with AC Link if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (600 mm)	20-750-MACBUS6-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 162 .
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 153 .
Power Bay (Inverter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn-xnnnnnnn	6	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 15 Module Selection on page 124 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Three inverters back panel and stab receptacles (800 mm)	20-750-MIRn-F10M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	6	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	6	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Power Bay (Inverter, 600 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MIn-xnnnnnnn	4	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 15 Module Selection on page 124 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
Two inverters back panel and stab receptacles (600 mm)	20-750-MIRn-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 162 .
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 153 .

Frame 15 PowerFlex 755TR Drive IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry/Exit Bay (800 mm) (Inline Configuration Only)	—	4	See PowerFlex 755TM Top Entry/Exit Wire Bays (Supplier: Rittal) on page 155 for Rittal part number.
AC bus bars (800 mm)	20-750-MTEBUS1-4K7	4	For specification and rating information, Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
Bus support panels, upper and lower (wire bay)	20-750-MWBPNI1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Frame 14 and 15 Drive, Bus Supply and NRS System (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation) on page 160 .
DC Voltage Balance Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800	1	See Frame 14 and 15 Drive, Common Bus Inverter, and NRS System (Back-to-back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation) on page 159 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-nKn	10	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
AC bus splice, converter power bay and wire entry bay	20-750-MACSPL2-4K7	8	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	2	
AC bus splice, wire exit bay	20-750-MTESPLn-F1nM	2	
Ground bus bar splice	20-750-MGNDSP1	12	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	14	See Control Bus Splice on page 153 .
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 15 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cables for AC precharge control boards to control pods ⁽¹⁾	

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

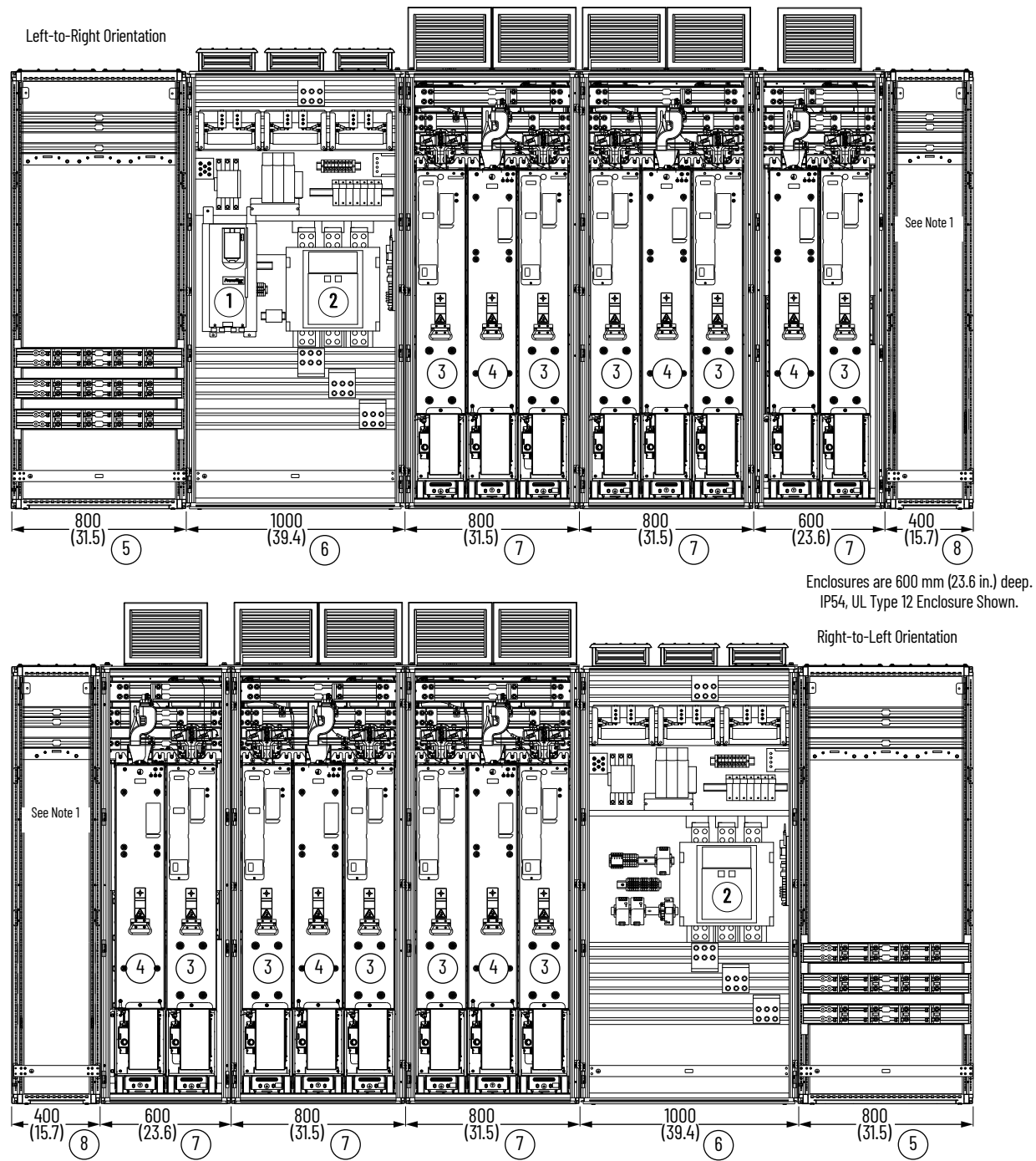
Frame 15 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 15 equivalent PowerFlex 755TM bus supplies.

Frame 15 PowerFlex 755TM Bus Supplies Normal Duty Ratings

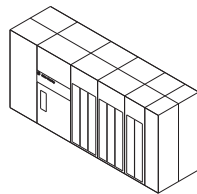
Input Voltage	Amps (DC)	Power Rating
400	7517	4358 kW
480	6925	4818 kW
600	5096	4432 kW
690	4714	4714 kW

Frame 15 PowerFlex 755™ Bus Supply Major Components - Front Views

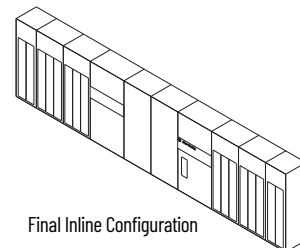


Note 1: 400 mm (15.7 in.) voltage balance bay only used with back-to-back configuration.

Item	Description	Item	Description
1	Control pod	5	Entry wire bay
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter	8	Voltage balance bay



Final Back-to-Back Configuration



Final Inline Configuration

Frame 15 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See PowerFlex 755TM Input Bays (Supplier: Rittal) on page 154 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-F-3K0	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breakers (Supplier: ABB) on page 127 .
	20-750-MACPCCB1-CD-5K0	2	
	20-750-MACPCCB-CDE-3K0	2	
AC precharge circuit breaker bus bars	20-750-MCBBUS1- <i>nxn</i>	2	For specification and rating information, see Frame 10...15 AC Precharge Circuit Breaker Bus Bars on page 151 .
AC precharge fused disconnect	194R-J200-1753	2	Choose one fused disconnect. For specification and rating information, see AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation) on page 128 .
	194R-D250-1753	2	
AC precharge control board	20-750-MACPC1-xx	2	For specification and rating information, see AC Precharge Control Boards on page 128 .
AC precharge resistor bank	20-750-MACPR-xx-F12M	6	For specification and rating information, see AC Precharge Resistor Banks on page 128 .
AC precharge TVSS module	20-750-MACP-xx-TVSS	2	For specification and rating information, see AC Precharge TVSS Modules on page 130 .
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 128 .
AC precharge contactor	100-D180EA00	2	Choose one AC precharge contactor. For specification and rating information, see AC Precharge Contactor (M1) (Supplier: Rockwell Automation) on page 130 .
	100-D140EA00	2	
Circuit breaker mounting panels	20-750-MIBPNL2- <i>FnnM</i>	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 162 .
Control pod	20-750-MCPOD4-F8M	2	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	7	See Fiber Transceiver Board on page 139 .
AC bus bar (1000 mm)	20-750-MACBUS10-xKx	4	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
DC bus bar (1000 mm)	20-750-MDCBUS10-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 153 .
Vent, input bay (1000 mm)	20-750-MVENTCn-F11M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Power Bay (Converter, 800 mm)	—	4	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1- <i>xnnnxnnn</i>	4	For specification and rating information, see Frame 15 Module Selection on page 124 .
Power module (Line side converter)	20-750-MI2- <i>xnnnxnnn</i>	8	Power module that is configured as a line side converter. For specification and rating information, see Frame 15 Module Selection on page 124 .
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	4	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	8	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	4	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	4	AC common mode core assembled with AC Link if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	4	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (800 mm)	20-750-MACBUS8-xKx	4	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	4	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	12	See Control Bus Connectors on page 153 .
Vent (800 mm)	20-750-MVENTn-F10M	4	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, upper	20-750-MIPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	4	
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	4	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Baffle (800 mm)	20-750-MIBAF1-F10M	4	See Baffle Assemblies on page 162 .
Power Bay (Converter, 600 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
LCL filter module	20-750-ML1- <i>xnnnxnnn</i>	2	For specification and rating information, see Frame 15 Module Selection on page 124 .
Power module (Line side converter)	20-750-MI2- <i>xnnnxnnn</i>	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 15 Module Selection on page 124 .

Frame 15 PowerFlex 755TM Bus Supply IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	2	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 .
DC common mode core	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACLn-F9M	2	For specification and rating information, see Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies on page 151 .
AC common mode core	20-750-MACCM1-F8M	2	AC common mode core assembled with AC Link if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
AC bus bar (600 mm)	20-750-MACBUS6-xKx	2	For specification and rating information, see Frame 8...15 AC Input Bus Bars on page 150 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 153 .
Vent (600 mm)	20-750-MVENTn-F9M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 162 .
Wire Entry/Exit Bay (800 mm) (Inline Configuration Only)	—	2	See PowerFlex 755TM Top Entry/Exit Wire Bays (Supplier: Rittal) on page 155 for Rittal part number.
AC bus bars (800 mm)	20-750-MTEBUS1-4K7	2	For specification and rating information, see Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 150 .
DC bus bars (800 mm)	20-750-MDCBUS8-nKn	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Frame 14 and 15 Drive, Bus Supply and NRS System (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation) on page 160 .
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Frame 13...15 Bus Supply and NRS System (Back-to-Back Configuration) DC Voltage Balance Bay (Supplier: Rockwell Automation) on page 160 .
Additional Kits			
DC bus splice (inline configuration)	20-750-MDCSPL1-nKn	9	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
DC bus splice (back-to-back configuration)		10	
AC bus splice, converter power bay and entry wire bay	20-750-MACSPL2-4K7	8	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	10	See Ground Bus Bar Splice on page 153 .
Control bus splice (Inline configuration)	20-750-MCTRLBUS-SPL	8	See Control Bus Splice on page 153 .
Control bus splice (back-to-back configuration)		10	
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 148 .

Frame 15 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 .
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Control transformer	See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page 131 .

Frame 15 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137.
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139
Fiber-optic cables for AC precharge control boards to control pods ⁽¹⁾	

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

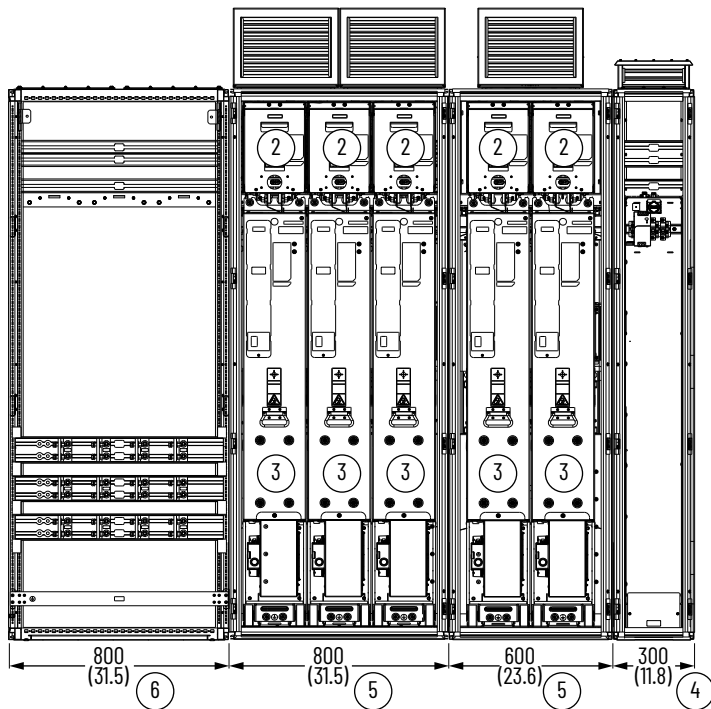
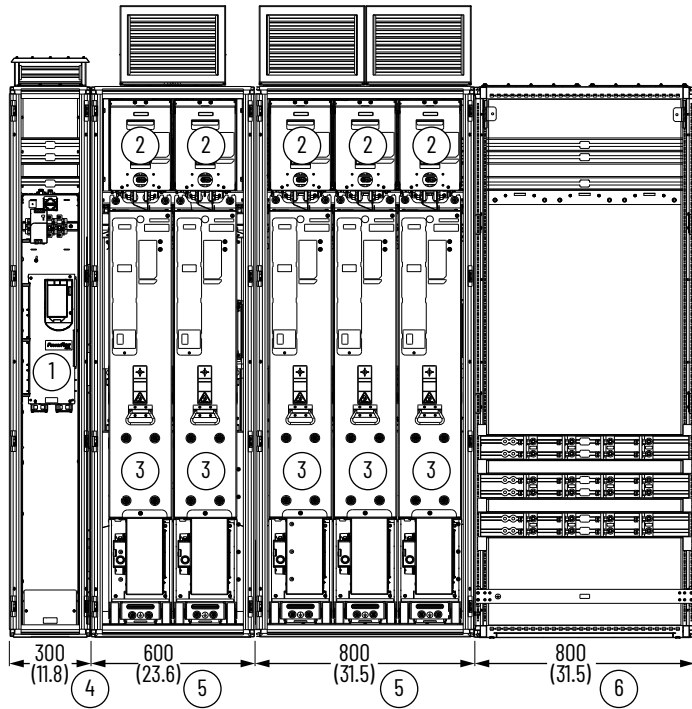
Frame 15 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 15 equivalent PowerFlex 755TM common bus inverters.

Frame 15 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

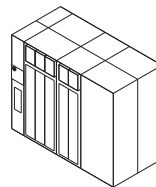
Input Voltage	Amps (AC)	Power Rating
400	7007	3640 kW
480	6734	6000 Hp
600	4960	5100 Hp
690	4596	4550 kW

Frame 15 PowerFlex 755TM Common Bus Inverter Major Components - Front Views



Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay
6	Voltage balance bay



Final Back-to-Back Configuration

Frame 15 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	2	See PowerFlex 755TM Control Bay (Supplier: Rittal) on page 154 for Rittal part number.
Control pod	20-750-MCPOD4-F8M	2	For power consumption, airflow, and firmware compatibility, see Control Pod Assemblies on page 138 .
Fiber transceiver boards	20-750-MFTB1-F8	4 or 5 ⁽¹⁾	See Fiber Transceiver Board on page 139 .
DC bus bar (300 mm)	20-750-MDCBUS3-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	2	See Control Bus Assemblies on page 153 .
Vent (300 mm)	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power Bay (Inverter, 800 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-xnnnnnnn	6	Power module that is configured as a motor side inverter. Choose one set of six modules. For specification and rating information, see Frame 15 Module Selection on page 124 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
	20-750-MI3-xnnnnnnn	6	
Inverter back panel and stab receptacles (800 mm)	20-750-MIRn-F10M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	6	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	6	For specification and rating information, see DC Precharge Modules on page 148 .
DC common mode core	20-750-MDCCM1-F8M	6	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 153 .
Vent, power bay (800 mm)	20-750-MVENTx-F10M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 162 .
Power Bay (Inverter, 600 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-xnnnnnnn	4	Power module that is configured as a motor side inverter. Choose one set of four modules. For specification and rating information, see Frame 15 Module Selection on page 124 . For filter options, see Power Modules Options (Frames 7...15 and 7L) on page 125 .
	20-750-MI3-xnnnnnnn	4	
Inverter back panel and stab receptacles (600 mm)	20-750-MIRn-F9M	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-xx-F8M	4	For rating information, see DC Link/Fuse Assemblies (Frames 7...15 and 7L) on page 148 . Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCPn-xx-F8M	4	For specification and rating information, see DC Precharge Modules on page 148 .
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 148 . DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-xKx	2	For specification and rating information, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 153 .
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3 ⁽²⁾	See Control Bus Connectors on page 153 .
Vent, power bay (600 mm)	20-750-MVENTx-F9M	2	For specification and rating information, see Ventilation Assemblies on page 162 .
Power module mounting bracket (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 162 .
DC Voltage Balance Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800	1	See Frame 14 and 15 Drive, Common Bus Inverter, and NRS System (Back-to-back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation) on page 153 .
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	6	For splice material, see Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .

Frame 15 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC bus splice, inverter power bay	20-750-MACSP1-F11M	2	For splice material, see Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
Ground bus bar splice	20-750-MGNDSP1	6	See Ground Bus Bar Splice on page 153 .
Control bus splice	20-750-MCTRLBUS-SPL	6	See Control Bus Splice on page 153 .

(1) Five fiber transceiver boards are required when a torque accuracy module is used.

(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 15 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8...15 and NRS AC Bus Bar Splices on page 150
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 161
Torque accuracy module 400...690V	See Torque Accuracy Modules (TAM) on page 149
Switched mode power supply	See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page 137 .
Fiber-optic cables for power modules to control pod ⁽¹⁾	See Fiber-optic Cable Kits on page 139

(1) A fiber-optic cable is required for this connection, but can be customer-sourced.

PowerFlex 755TM Non-Regenerative Supply System

A PowerFlex 755TM Non-Regenerative Supply (NRS) system is a customized solution that is built with NRS modules, UL Listed IP00 Open Type kits, and customer-sourced Rittal TS8 enclosures. NRS systems combine NRS modules in parallel configurations to provide the desired power output to support your common bus system. This section includes details on the NRS modules and ratings and NRS systems for parallel module installations.

NRS Modules

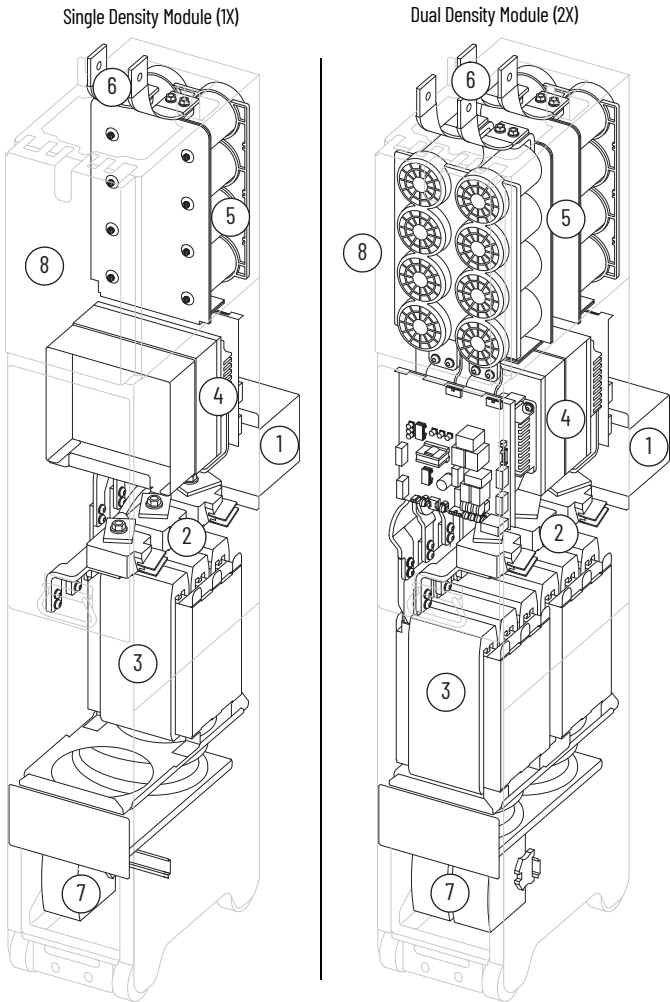
NRS modules are available in either single-density (1X) or dual-density (2X) power configurations. “Single density” and “dual density” refers to the power output capability of the modules. A dual-density module provides approximately twice the power output of a single-density module in the same physical size.

NRS modules include integral line reactors to support efficient parallel module installations and to build bus supply systems that support PowerFlex 755TM common bus inverters and DC input drives. Parallel single-density and dual-density NRS modules for power ratings up to 4000 kW and 6000 Hp. See NRS Module Selection on page 87 for supported output ratings.

DC bus capacitors are optional and are sized to complete the required total capacitance when the NRS is paired with PowerFlex 755TM common bus inverter power modules.

This image provides a visual reference of the internal power components of the NRS modules to illustrate the concept of a module that provides a wide range of power output ratings.

ID	Component	ID	Component
1	AC input terminals	5	DC bus capacitors (optional)
2	AC input fuses	6	DC output terminals
3	Integral line reactor	7	Heatsink fan power supply
4	Silicon controlled rectifiers (SCRs)	8	Main control circuit board (not shown for clarity only)



NRS System Considerations

Plan for the following important installation considerations for parallel NRS module systems:

- Determine your common bus system power needs. Use the data in the NRS System Configurations and NRS Module Selection tables on page 87 to plan your NRS system and choose NRS modules to meet your power needs.
- The actual current consumed by the bus supply system must not exceed the current rating of the AC bus bars and the actual output current must not exceed the current rating of the DC bus bars. See NRS Module Selection on page 87.
- Common bus systems that use Rockwell Automation provided IP00 bus bar and bus splice kits and combine four or more NRS modules in parallel at the ratings listed here require a back-to-back or inline cabinet configuration with two entry wire bays and two exit wire bays (see NRS System Cabinet Topologies on page 90 for more information):
 - 400/480V above 4100 A (ND)
 - 600/690V above 3300 A (ND)
- Enable module-to-module communication for precharge and fault coordination by using IP00 interconnect wire harness and jumper kits available for NRS systems. See NRS System Module Communication on page 91 for more information.
- Each NRS module must be installed in a 400 mm (15.75 in.) wide NRS power bay. See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154.
- Coordinated precharge and status communication capabilities support up to six NRS modules in parallel only. For details on precharge settings and status indicators, see the PowerFlex 755TM Non-Regenerative Supply User Manual, publication 750-UM100.

NRS System Configurations

This table provides the recommended parallel NRS module system configurations and the PowerFlex 755TM common bus inverter each configuration supports. See NRS Module Selection for single and parallel power module ratings. Modules listed in parenthesis in the table and throughout this document indicates that those modules are installed in individual 400 mm (15.75 in.) wide power bays on either side of power wire entry bays. See NRS System Cabinet Topologies on page 90 for example cabinet installations.

Parallel NRS Module Systems

Cabinet Topology	NRS Module Combinations	Voltage Class	Quantity of Single Density (1X) Modules	Quantity of Dual Density (2X) Modules	Total Quantity of Modules	Supports PowerFlex 755TM Common Bus Inverter	NRS Module Configuration Example with IP00 Kits List
Left-to-Right or Right-to-Left	1X	400/480/600/690V AC	1	—	1	Frame 8	94
	2X		—	1	1	Up to frame 9	96
	1X+2X		1	1	2	Up to frame 10	98
	2X+2X		—	2	2	Up to frame 11	100
	2X+2X+1X		1	2	3	Up to frame 12	102
	2X+2X+2X ⁽¹⁾	600/690V AC ⁽²⁾	—	3	3	Up to frame 13	104
Inline or back-to-back	2 (2X+1X) ⁽¹⁾	400/480/600/690V AC	2	2	4	Up to frame 13	106
	2 (2X+2X)		—	4	4	Up to frame 14	108
	2 (2X+2X+1X)		2	4	6	Up to frame 15	110
	2 (2X+2X+2X)	600/690V AC ⁽²⁾	—	6	6	Up to frame 15	112

(1) These 600/690V configurations result in the same power ratings.

(2) The available Rockwell Automation IP00 Open Type bus bar kits do not support 400/480V installations for this configuration. However, this configuration can be used for reserve capacity for 400/480V NRS system N-1 operation and reduced current rating. See NRS System N-1 Operation on page 93.

NRS Module Selection

The following tables provide power ratings for individual NRS modules and parallel NRS module systems. NRS modules do not limit current output. Use these ratings to determine the maximum NRS system power only. For NRS module watts loss data, see the tables that begin on page 178.

IMPORTANT The DC output current rating of the bus supply system must not exceed the current rating of the DC bus bars and bus bar splices. See Extruded DC Bus Derating Guidelines on page 179 for details.

400V NRS Module Ratings

kW Ratings			Input Amps AC			Output Amps DC			Quantity of 1X Modules	Cat. No. (20-750-)		Quantity of 2X Modules	Cat. No. (20-750-)	
LD	ND	HD	LD	ND	HD	LD	ND	HD		With Bus Capacitors	No Bus Capacitors		With Bus Capacitors	No Bus Capacitors
518	479	400	799	739	616	959	887	740	1	MN1-C770D740	MN2-C770D740	—	—	—
938	910	731	1517	1406	1128	1821	1685	1354	—	—	—	1	MN1-C1K4D1K3	MN2-C1K4D1K3
1450	1341	1119	2237	2069	1725	2685	2484	2072	1	MN1-C770D740	MN2-C770D740	1	MN1-C1K4D1K3	MN2-C1K4D1K3
1916	1772	1479	2956	2734	2279	3548	3282	2738	—	—	—	2	MN1-C1K4D1K3	MN2-C1K4D1K3
2382	2203	1886	3675	3399	2834	4411	4080	3493	1	MN1-C770D740	MN2-C770D740	2	MN1-C1K4D1K3	MN2-C1K4D1K3
2848	2634	2198	4395	4065	3388	5275	4879	4070	—	—	—	3	MN1-C1K4D1K3	MN2-C1K4D1K3
2848	2634	2198	4395	4065	3388	5275	4879	4070	2	MN1-C770D740	MN2-C770D740	2	MN1-C1K4D1K3	MN2-C1K4D1K3
3780	3497	2917	5833	5395	4497	7001	6475	5402	—	—	—	4	MN1-C1K4D1K3	MN2-C1K4D1K3
4713	4359	3636	7271	6725	5606	8727	8072	6734	2	MN1-C770D740	MN2-C770D740	4	MN1-C1K4D1K3	MN2-C1K4D1K3
4713 ⁽¹⁾	4359 ⁽¹⁾	3636 ⁽¹⁾	7271 ⁽¹⁾	6725 ⁽¹⁾	5606 ⁽¹⁾	8727 ⁽¹⁾	8072 ⁽¹⁾	6734 ⁽¹⁾	—	—	—	6	MN1-C1K4D1K3	MN2-C1K4D1K3
5645 ⁽²⁾	5221 ⁽²⁾	4356 ⁽²⁾	8709 ⁽²⁾	8055 ⁽²⁾	6714 ⁽²⁾	10453 ⁽²⁾	9668 ⁽²⁾	8066 ⁽²⁾	—	—	—	6	MN1-C1K4D1K3	MN2-C1K4D1K3

(1) The ratings for these configurations are achieved when using standard Rockwell Automation IP00 Open Type bus bar kits. The available Rockwell Automation IP00 Open Type bus bar kits do not support a higher rating, but this configuration can be used for reserve capacity for NRS system N-1 operation. See NRS System N-1 Operation on page 93 for more information.

(2) The ratings for these configurations can only be achieved by using customer-sourced bus bars.

480V NRS Module Ratings

kW Ratings			Input Amps AC			Output Amps DC			Quantity of 1X Modules	Cat. No. (20-750-)		Quantity of 2X Modules	Cat. No. (20-750-)	
LD	ND	HD	LD	ND	HD	LD	ND	HD		With Bus Capacitors	No Bus Capacitors		With Bus Capacitors	No Bus Capacitors
527	529	441	736	681	568	883	817	681	1	MN1-C770D740	MN2-C770D740	—	—	—
1087	977	812	1398	1256	1044	1678	1507	1253	—	—	—	1	MN1-C1K4D1K3	MN2-C1K4D1K3
1603	1482	1236	2061	1907	1590	2473	2288	1907	1	MN1-C770D740	MN2-C770D740	1	MN1-C1K4D1K3	MN2-C1K4D1K3
2118	1959	1633	2723	2520	2102	3268	3023	2520	—	—	—	2	MN1-C1K4D1K3	MN2-C1K4D1K3
2633	2435	2132	3386	3133	2613	4063	3758	3290	1	MN1-C770D740	MN2-C770D740	2	MN1-C1K4D1K3	MN2-C1K4D1K3
3147	2912	2427	4048	3746	3124	4857	4494	3746	—	—	—	3	MN1-C1K4D1K3	MN2-C1K4D1K3
3147	2912	2427	4048	3746	3124	4857	4494	3746	2	MN1-C770D740	MN2-C770D740	2	MN1-C1K4D1K3	MN2-C1K4D1K3
4177	3865	3221	5373	4971	4146	6446	5964	4971	—	—	—	4	MN1-C1K4D1K3	MN2-C1K4D1K3
5207	4818	4016	6698	6197	5169	8035	7435	6197	2	MN1-C770D740	MN2-C770D740	4	MN1-C1K4D1K3	MN2-C1K4D1K3
5207 ⁽¹⁾	4818 ⁽¹⁾	4016 ⁽¹⁾	6698 ⁽¹⁾	6197 ⁽¹⁾	5169 ⁽¹⁾	8035 ⁽¹⁾	7435 ⁽¹⁾	6197 ⁽¹⁾	—	—	—	6	MN1-C1K4D1K3	MN2-C1K4D1K3
6237 ⁽²⁾	5771 ⁽²⁾	4810 ⁽²⁾	8022 ⁽²⁾	7423 ⁽²⁾	6191 ⁽²⁾	9625 ⁽²⁾	8905 ⁽²⁾	7423 ⁽²⁾	—	—	—	6	MN1-C1K4D1K3	MN2-C1K4D1K3

(1) The ratings for these configurations are achieved when using standard Rockwell Automation IP00 Open Type bus bar kits. The available Rockwell Automation IP00 Open Type bus bar kits do not support a higher rating, but this configuration can be used for reserve capacity for NRS system N-1 operation. See NRS System N-1 Operation on page 93 for more information.

(2) The ratings for these configurations can only be achieved by using customer-sourced bus bars.

600V NRS Module Ratings

kW Ratings			Input Amps AC			Output Amps DC			Quantity of 1X Modules	Cat. No. (20-750-)		Quantity of 2X Modules	Cat. No. (20-750-)	
LD	ND	HD	LD	ND	HD	LD	ND	HD		With Bus Capacitors	No Bus Capacitors		With Bus Capacitors	No Bus Capacitors
518	488	403	534	501	414	640	602	497	1	MN1-E545F505	MN2-E545F505	—	—	—
986	876	738	1014	901	759	1217	1082	911	—	—	—	1	MN1-E980F920	MN2-E980F920
1452	1365	1127	1495	1403	1159	1792	1686	1392	1	MN1-E545F505	MN2-E545F505	1	MN1-E980F920	MN2-E980F920
1918	1804	1490	1976	1854	1532	2368	2227	1839	—	—	—	2	MN1-E980F920	MN2-E980F920
2385	2243	1852	2456	2305	1904	2944	2769	2286	1	MN1-E545F505	MN2-E545F505	2	MN1-E980F920	MN2-E980F920
2851	2682	2214	2937	2756	2277	3520	3311	2734	—	—	—	3	MN1-E980F920	MN2-E980F920
2851	2682	2214	2937	2756	2277	3520	3311	2734	2	MN1-E545F505	MN2-E545F505	2	MN1-E980F920	MN2-E980F920
3784	3560	2939	3898	3657	3022	4672	4395	3628	—	—	—	4	MN1-E980F920	MN2-E980F920
4717	4437	3663	4859	4559	3767	5824	5478	4523	2	MN1-E545F505	MN2-E545F505	4	MN1-E980F920	MN2-E980F920
5651	5315	4388	5821	5461	4513	6976	6562	5417	—	—	—	6	MN1-E980F920	MN2-E980F920

690V NRS Module Ratings

kW Ratings			Input Amps AC			Output Amps DC			Quantity of 1X Modules	Cat. No. (20-750-)		Quantity of 2X Modules	Cat. No. (20-750-)	
LD	ND	HD	LD	ND	HD	LD	ND	HD		With Bus Capacitors	No Bus Capacitors		With Bus Capacitors	No Bus Capacitors
596	561	463	534	501	414	640	602	497	1	MN1-E545F505	MN2-E545F505	—	—	—
1134	1008	849	1014	901	759	1217	1082	911	—	—	—	1	MN1-E980F920	MN2-E980F920
1669	1570	1296	1495	1403	1159	1792	1686	1392	1	MN1-E545F505	MN2-E545F505	1	MN1-E980F920	MN2-E980F920
2206	2075	1713	1976	1854	1532	2368	2227	1839	—	—	—	2	MN1-E980F920	MN2-E980F920
2742	2580	2130	2456	2305	1904	2944	2769	2286	1	MN1-E545F505	MN2-E545F505	2	MN1-E980F920	MN2-E980F920
3279	3084	2546	2937	2756	2277	3520	3311	2734	—	—	—	3	MN1-E980F920	MN2-E980F920
3279	3084	2546	2937	2756	2277	3520	3311	2734	2	MN1-E545F505	MN2-E545F505	2	MN1-E980F920	MN2-E980F920
4352	4094	3380	3898	3657	3022	4672	4395	3628	—	—	—	4	MN1-E980F920	MN2-E980F920
5425	5103	4213	4859	4559	3767	5824	5478	4523	2	MN1-E545F505	MN2-E545F505	4	MN1-E980F920	MN2-E980F920
6498	6112	5046	5821	5461	4513	6976	6562	5417	—	—	—	6	MN1-E980F920	MN2-E980F920

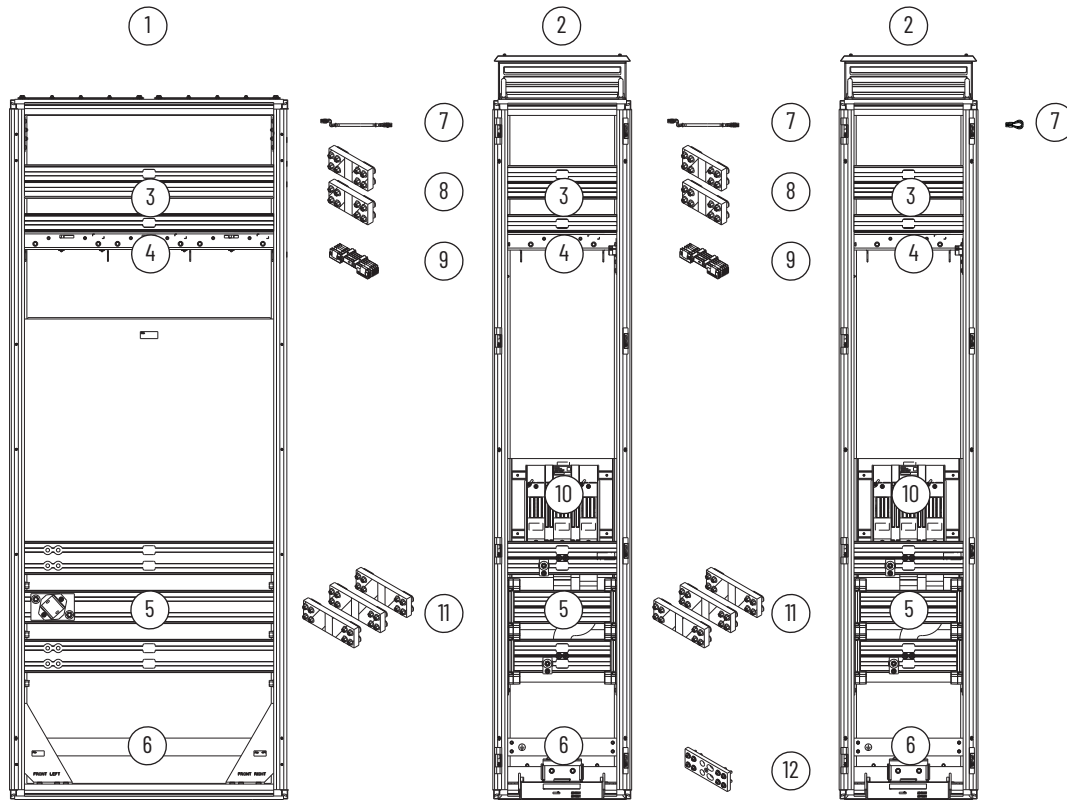
NRS System IP00 Open Type Kits

PowerFlex 755TM NRS systems use standard AC and DC IP00 bus bar kits that can be connected on either the left or right side of an enclosure. For systems that combine four and more NRS modules, a back-to-back or inline configuration can supply common bus inverters in both directions. Dual output allows DC current to be distributed across two sets of DC bus bars. See NRS System Cabinet Topologies on page 90 for more information.

UL Listed IP00 Open Type bus bar kits are available for AC, DC, and control bus power connections and bus bar, control bus, and ground bus splices to support parallel installations. Wire harness kits are available for required NRS module control signal communication. See the NRS Module Configuration Examples that begin on page 93 for a list of the kits that support the NRS parallel configurations.

Example IP00 Kits and Enclosures for an NRS System

Kit component illustrations are examples only.



ID	Description
1	Wire bay ⁽¹⁾
2	Power bay ⁽³⁾
3	Extruded DC bus bar kit

ID	Description
4	Control bus assembly kit
5	Extruded AC bus bar kit
6	Ground bus bar

ID	Description
7	NRS interconnect harness jumper kit
8	DC bus bar splice kit
9	Control bus bar splice kit

ID	Description
10	Back panel with stab receptacles ⁽²⁾
11	AC bus bar splice kit
12	Ground bus bar splice kit

(1) NRS systems can use either pre-assembled wire entry bay kits (400 mm and 800 mm wide options) or a customer-sourced Rittal TS8 enclosure to provide power wire cable entry and customer-sourced input protection devices. An 800 mm wide wire entry bay kit is shown.

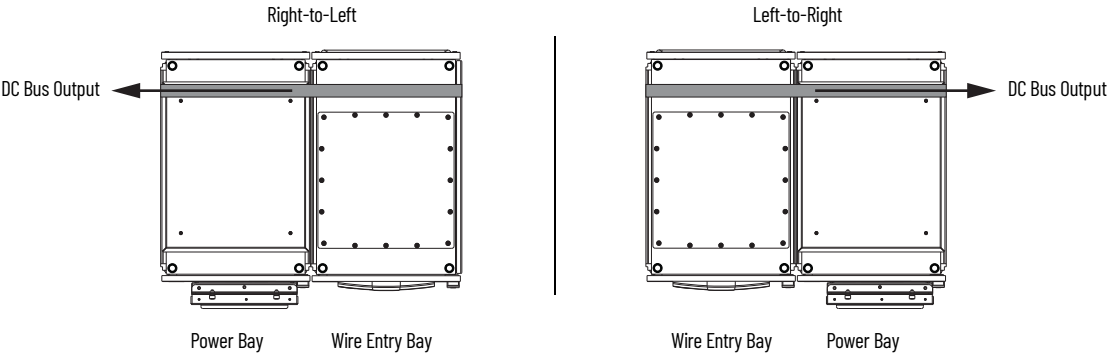
(2) This kit includes the extruded AC bus bars.

(3) The NRS power bay must be purchased separately from Rittal (part number 9977404).

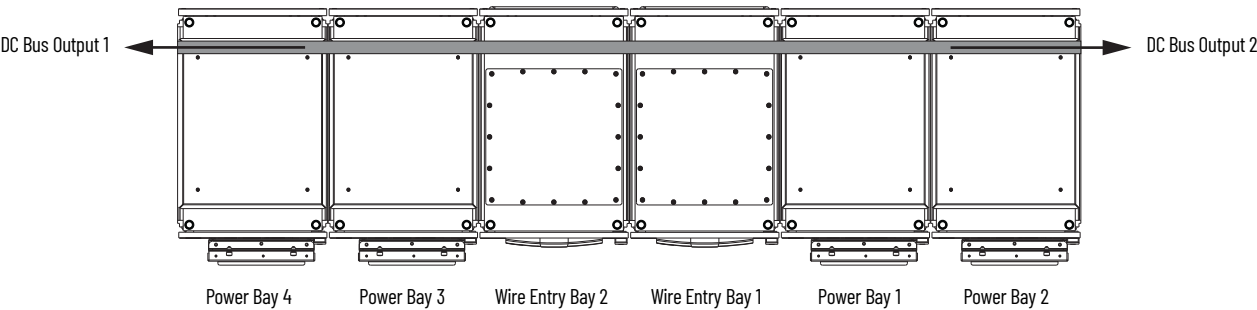
NRS System Cabinet Topologies

NRS system cabinets can be configured in multiple topologies, with either a single DC output bus or, to achieve high power ratings, two balanced DC bus output connections. These illustrations provide examples of NRS system cabinet topologies. Wire entry and DC voltage balance bay kits are available with the various bus bar configurations required for proper DC bus current balancing. NRS modules are designed for installation in 400 mm wide Rittal TS8 enclosures (power bays) only.

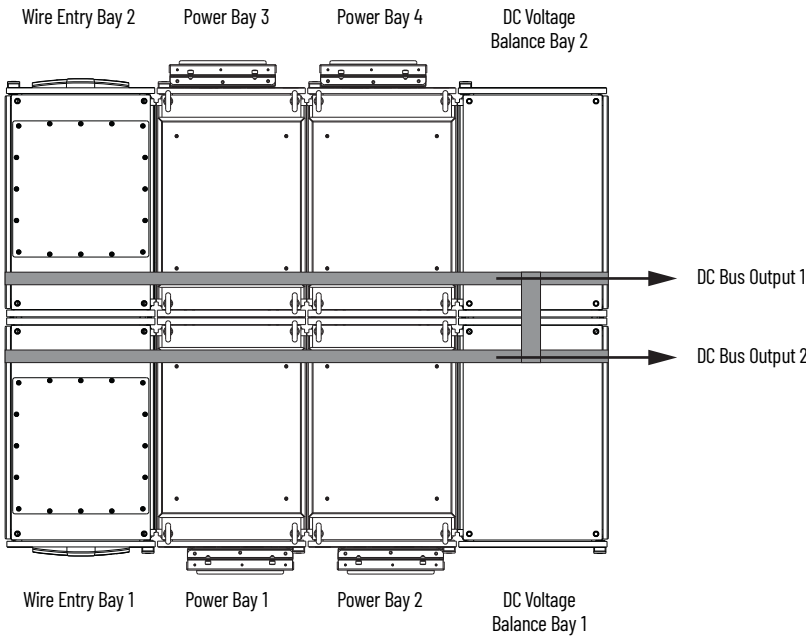
Right-to-Left and Left-to-Right Topologies



Inline Topology



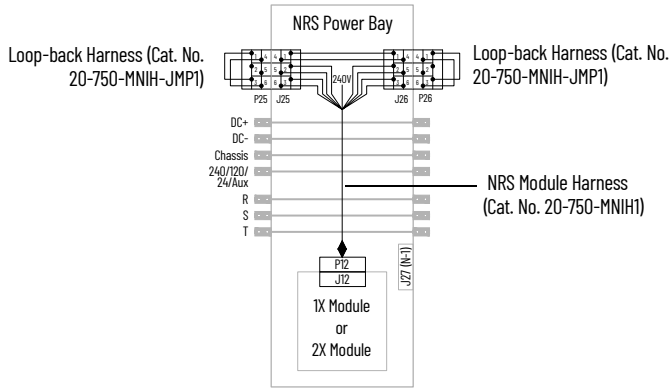
Back-to-Back Topology



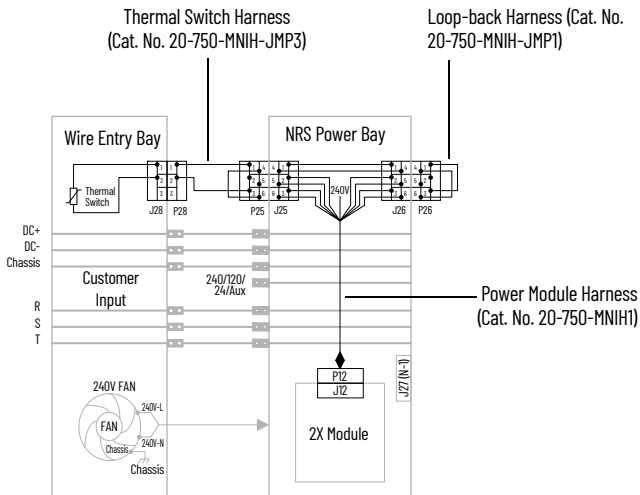
NRS System Module Communication

NRS system interconnection harnesses are required to provide module-to-module communication for pre-charge and fault coordination. IP00 interconnection harness kits are available to provide the required module-to-module communication when installed in the recommended Rittal TS8 wire entry, power, and DC voltage balance bays.

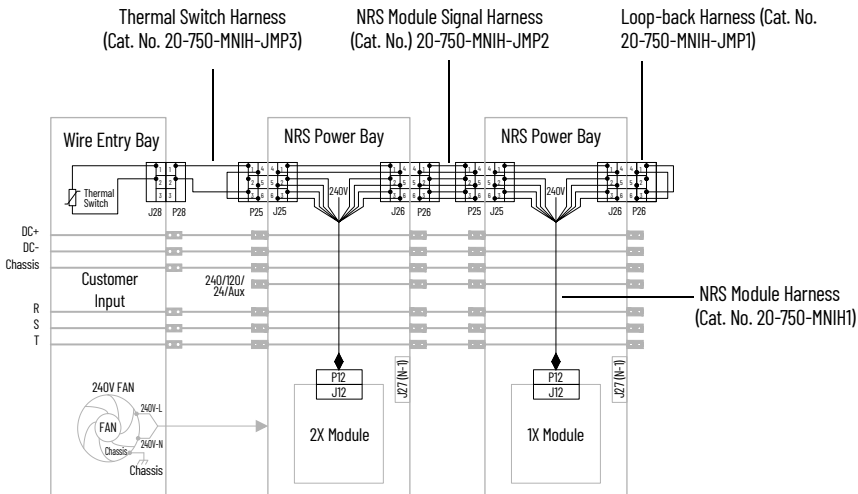
Power Bay Interconnection Harnesses Example



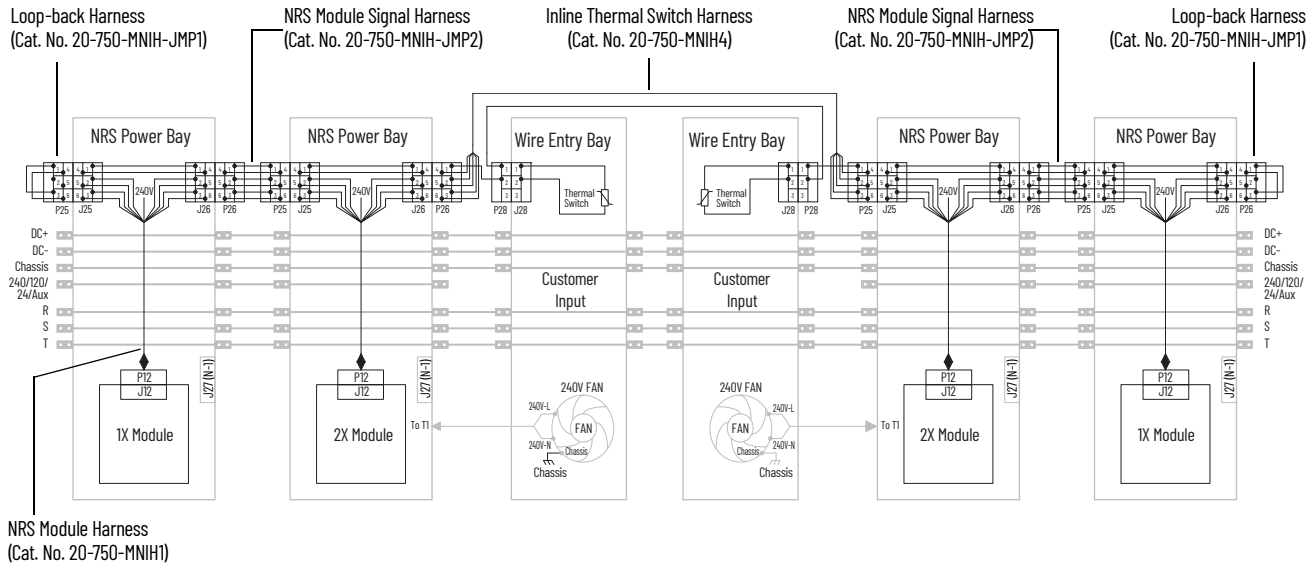
Wire Bay and One Power Bay Interconnection Harnesses Example



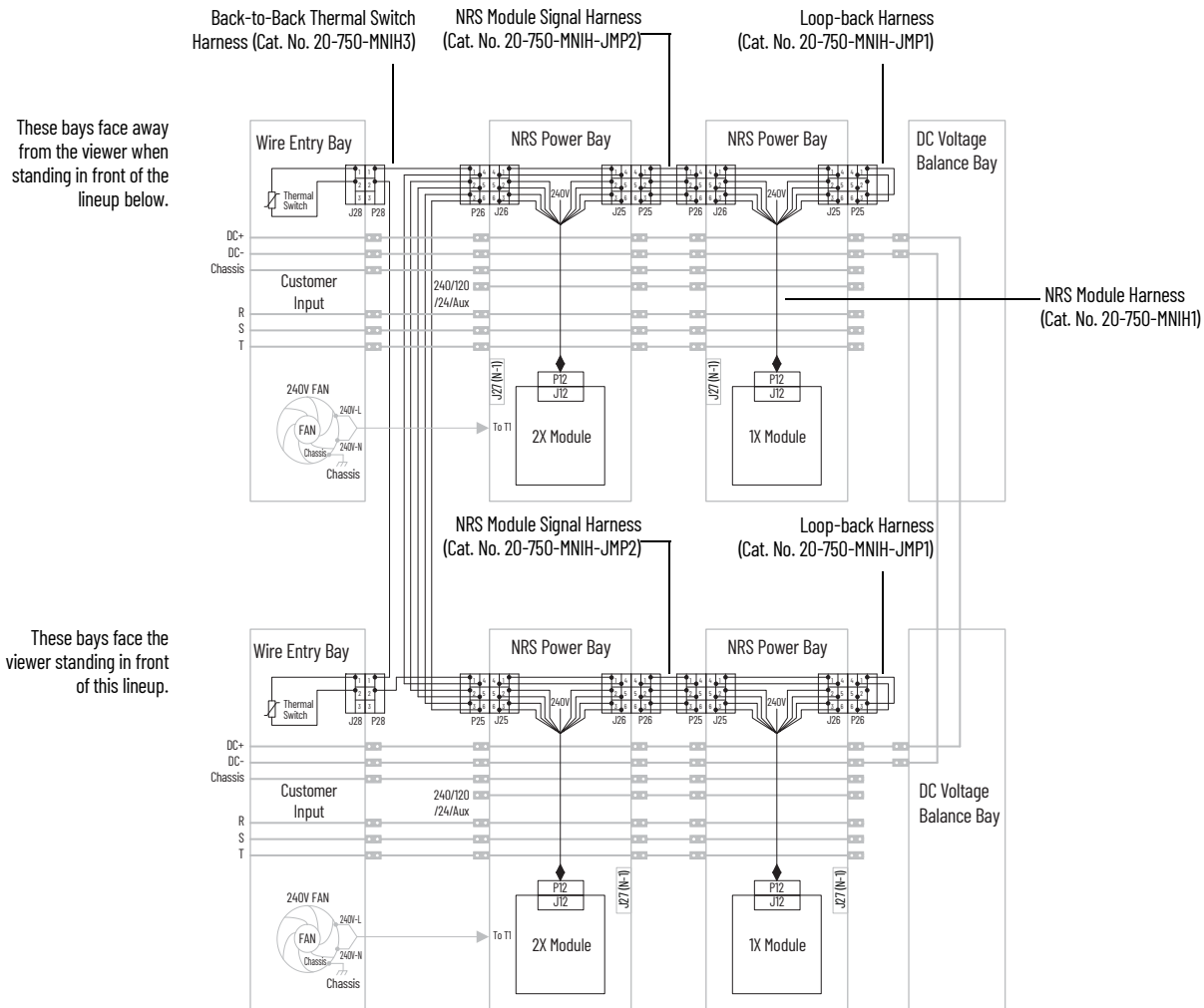
Wire Entry Bay and Two Power Bay Interconnection Harnesses Example



Inline Topology Interconnection Harnesses Example



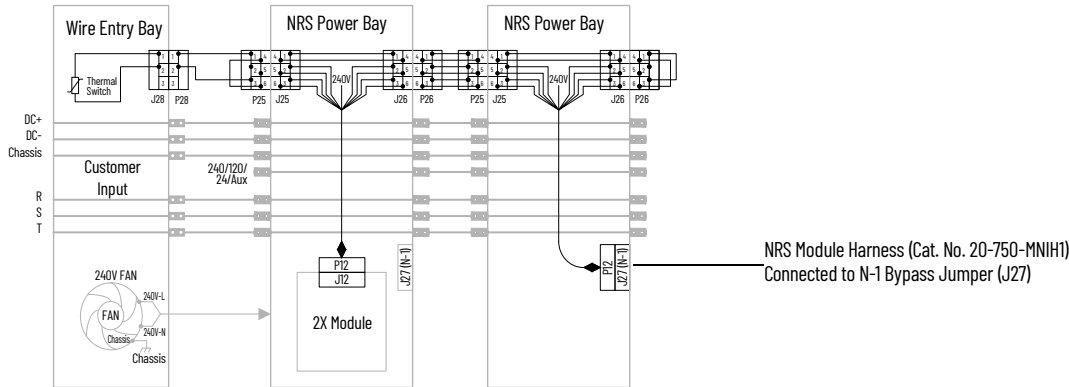
Back-to-Back Topology Interconnection Harnesses Example



NRS System N-1 Operation

An NRS system can operate at a reduced capacity when one or more of the NRS modules is removed (N-1 operation). For N-1 operation, you must remove an NRS module and connect the NRS module interconnection wire harness (cat. no. 20-750-MNIH1) to the N-1 bypass jumper (J27) terminal block in the NRS power bay. This connection provides the module-to-module communication for precharge and fault coordination (as shown here).

NRS System N-1 Operation Interconnection Wire Harness Configuration Example



NRS Module Configuration Examples

This section provides example configurations for NRS modules and IP00 kit selection information. The configurations that are shown in the tables represent configurations with the recommended Rittal TS8 wire bays and power bays. Enclosures can be customer sourced, but must meet installation requirements. For detailed IP00 kit assembly and installation guidelines that include product enclosure recommendations, see the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication [750-IN101](#).

Equivalent Frame Sizes	Page
One Single Density (1X) NRS Module Configuration	94
One Dual Density (2X) NRS Module Configuration	96
One Dual Density (2X) and One Single Density (1X) NRS Module Configuration	98
Two Dual Density (2X) NRS Modules Configuration	100
Two Dual Density (2X) and One Single Density (1X) NRS Modules Configuration	102

Equivalent Frame Sizes	Page
Three Dual Density (2X) NRS Modules Configuration	104
Two Dual Density (2X) and Two Single Density (1X) NRS Modules Configuration	106
Four Dual Density (2X) NRS Modules Configuration	108
Four Dual Density (2X) and Two Single Density (1X) NRS Modules Configuration	110
Six Dual Density (2X) NRS Modules Configuration	112

When single density and dual density power modules are installed in parallel configurations, it is recommended to install the dual density power modules closest to the three-phase AC input source.

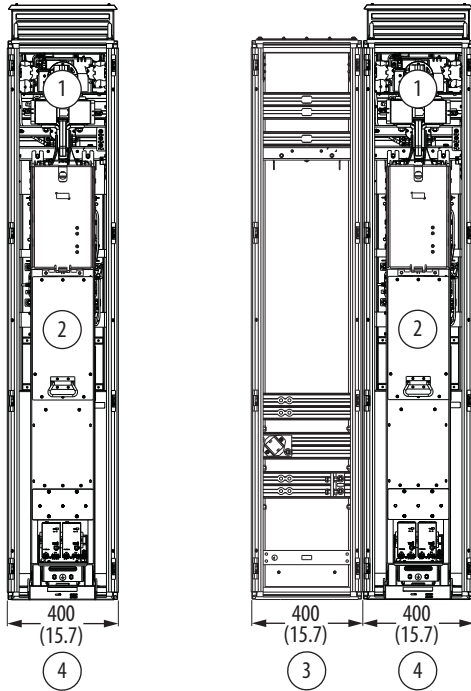
One Single Density (1X) NRS Module Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

One Single Density (1X) NRS Module Major Components - Front View

Power Bay is Bottom Cable Entry Only

Optional Wire Bay is Top or Bottom Cable Entry



Left-to-Right Orientation.
Right-to-Left Orientation Not Shown.

Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	DC link/fuse assembly
2	Single density module

Item	Description
3	Wire bay ⁽¹⁾
4	Power bay

(1) Wire entry bay is optional.

One Single Density (1X) NRS Module Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (400 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnxxxx	1	For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars	20-750-MNIR1	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK1-xx	1	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
DC link/fuse assembly support	20-750-MN-DCLSI-400	1	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	1	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	1	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	1	See Control Bus Assemblies on page 153 .
Thermal switch interconnect wire harness (loop-back)	20-750-MNIH-JMP1	2 ⁽²⁾	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Vent kit (400 mm)	20-750-MVENTn	1	For rating and specification information, see Ventilation Assemblies on page 162 .

One Single Density (1X) NRS Module Major IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MN-PNL1-NRS	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MN-PNL3-NRS	1	

(1) Required for NRS module mounting only.

(2) Only 1 kit is required when an optional wire entry bay (cat. no 20-750-MN-WBAYn-400) is used.

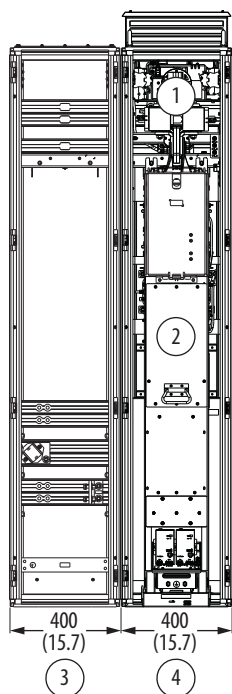
One Single Density (1X) NRS Module Options

Module or Kit Name	Description
Wire entry bay (20-750-MN-WBAYn-400)	Choose a wire bay based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
Thermal switch signal interconnect harness (20-750-MNIH-JMP3)	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
AC bus bar splice kit (20-750-MAC SPL2-3K0)	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit (20-750-MDC SPL1-3K0)	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148 .
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier: Rockwell Automation) on page 138 .
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153 .

One Dual Density (2X) NRS Module Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

One Dual Density (2X) NRS Module Major Components - Front View



Left-to-Right Orientation.
Right-to-Left Orientation Not Shown.

Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	DC link/fuse assembly	3	Wire bay
2	Dual density module	4	Power bay

One Dual Density (2X) NRS Module Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (400 mm)	20-750-MN-WBAY1-400	1	Choose a wire bay based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSP12-3K0	1	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSP11-3K0	1	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (wire bay to power bay)	20-750-MNIH-JMP3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Power Bay (400 mm)	—	1	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnxxxn	1	For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars	20-750-MNIR1 or 20-750-MNIR2	1	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK2-xx	1	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
DC link/fuse assembly support	20-750-MN-DCLS1-400	1	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	1	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	1	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier: Rockwell Automation) on page 138 .
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	1	See Control Bus Assemblies on page 153 .

One Dual Density (2X) NRS Module Major IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Interconnect wire harness (loop-back)	20-750-MNIH-JMP1	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Vent kit (400 mm)	20-750-MVENTn	1	For rating and specification information, see Ventilation Assemblies on page 162 .
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	1	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MN-PNL1-NRS	1	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MN-PNL3-NRS	1	

(1) Required for NRS module mounting only.

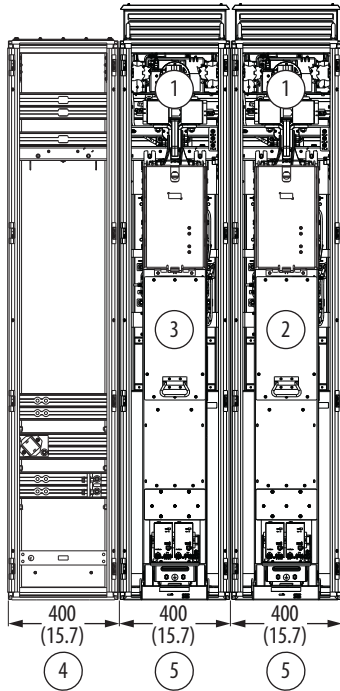
One Dual Density (2X) NRS Module Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148 .
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153 .

One Dual Density (2X) and One Single Density (1X) NRS Module Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

One Dual Density (2X) and One Single Density (1X) NRS Module Major Components - Front View



Left-to-Right Orientation.
Right-to-Left Orientation Not Shown.

Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	DC link/fuse assembly	4	Wire bay
2	Single density module	5	Power bay
3	Dual density module		

One Dual Density (2X) and One Single Density (1X) NRS Module Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (400 mm)	20-750-MN-WBAY1-400	1	Choose a wire bay based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSP12-3K0	1	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSP11-3K0	1	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (wire bay to power bay)	20-750-MNIH-JMP3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Power Bay (400 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnnnn	2	Choose one single-density and one dual-density power module. For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars (400 mm)	20-750-MNIR1 or 20-750-MNIR2	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK1-xx 20-750-MN-DCLINK2-xx	1 1	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
DC link/fuse assembly support (400 mm)	20-750-MN-DCLS1-400	2	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	2	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .

One Dual Density (2X) and One Single Density (1X) NRS Module Major IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	2	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138.
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	2	See Control Bus Assemblies on page 153.
Interconnect wire harness (power bay to power bay)	20-750-MNIH-JMP2	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Interconnect wire harness (loop-back)	20-750-MNIH-JMP1	1	
Vent kit (400 mm)	20-750-MVENTn	2	See Ventilation Assemblies on page 162.
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161.
Bus support panels, upper	20-750-MN-PNL1-NRS	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161.
Bus support panels, lower	20-750-MN-PNL3-NRS	2	

(1) Required for NRS module mounting only.

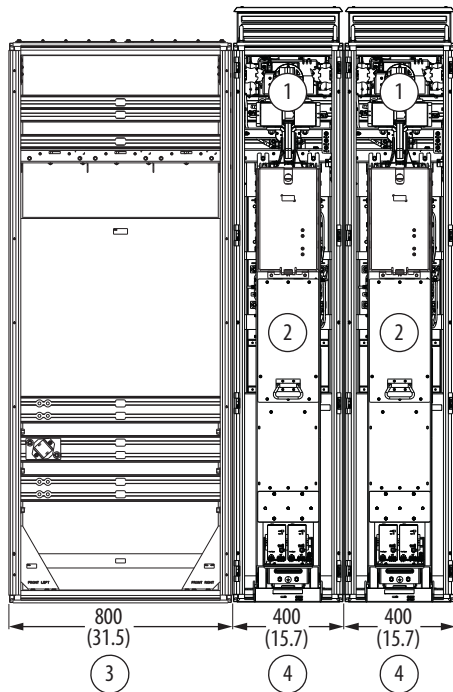
One Dual Density(2X) and One Single Density (1X) NRS Module Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148.
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138.
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153.

Two Dual Density (2X) NRS Modules Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

Two Dual Density (2X) NRS Modules Major Components – Front View



Left-to-Right Orientation.
Right-to-Left Orientation Not Shown.

Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	DC link/fuse assembly	3	Wire bay
2	Dual density module	4	Power bay

Two Dual Density(2X) NRS Modules Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (800 mm)	20-750-MN-WBAY1-800	1	Choose a wire bay based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSP12-4K7	1	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSP11-4K7	1	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (wire bay to power bay)	20-750-MNIH-JMP3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Power Bay (400 mm)	—	2	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnnnnn	2	Choose two dual-density power modules. For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars (400 mm)	20-750-MNIR2	2	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK2-xx	2	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
DC link/fuse assembly support (400 mm)	20-750-MN-DCLS1-400	1	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	2	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	2	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .

Two Dual Density(2X) NRS Modules Major IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	2	See Control Bus Assemblies on page 153 .
Interconnect wire harness (power bay to power bay)	20-750-MNIH-JMP2	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Interconnect wire harness (loop-back)	20-750-MNIH-JMP1	1	
Vent kit (400 mm)	20-750-MVENTn	2	For rating and specification information, see Ventilation Assemblies on page 162 .
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	2	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MN-PNL1-NRS	2	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MN-PNL3-NRS	2	

(1) Required for NRS power module mounting only.

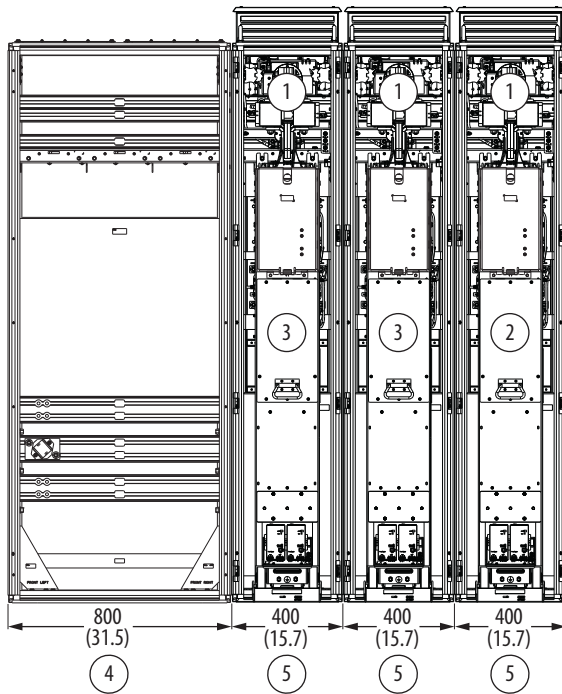
Two Dual Density(2X) NRS Modules Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148 .
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153 .

Two Dual Density (2X) and One Single Density (1X) NRS Modules Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

Two Dual Density (2X) and One Single Density (1X) NRS Modules Major Components - Front View



Left-to-Right Orientation.
Right-to-Left Orientation Not Shown.

Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	DC link/fuse assembly
2	Single density module
3	Dual density module

Item	Description
4	Wire bay
5	Power bay

Two Dual Density (2X) and One Single Density (1X) NRS Modules Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (800 mm)	20-750-MN-WBAY1-800	1	Choose a wire bay based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSP12-4K7	1	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSP11-4K7	1	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (wire bay to power bay)	20-750-MNIH-JMP3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Power Bay (400 mm)	—	3	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnxxxn	3	Choose one single-density and two dual-density power modules. For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars (400 mm)	20-750-MNIR2	3	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK1-xx 20-750-MN-DCLINK2-xx	1 2	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
DC link/fuse assembly support (400 mm)	20-750-MN-DCLS1-400	3	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	3	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .

Two Dual Density (2X) and One Single Density (1X) NRS Modules Major IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	3	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138.
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	3	See Control Bus Assemblies on page 153.
Interconnect wire harness (power bay to power bay)	20-750-MNIH-JMP2	2	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Interconnect wire harness (loop-back)	20-750-MNIH-JMP1	1	
Vent kit (400 mm)	20-750-MVENTn	3	See Ventilation Assemblies on page 162.
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	3	See Power and LCL Filter Module Floor and Support Brackets on page 161.
Bus support panels, upper	20-750-MN-PNL1-NRS	3	See Bus Support and Divider Panels (Right and Left Sides) on page 161.
Bus support panels, lower	20-750-MN-PNL3-NRS	3	

(1) Required for NRS power module mounting only.

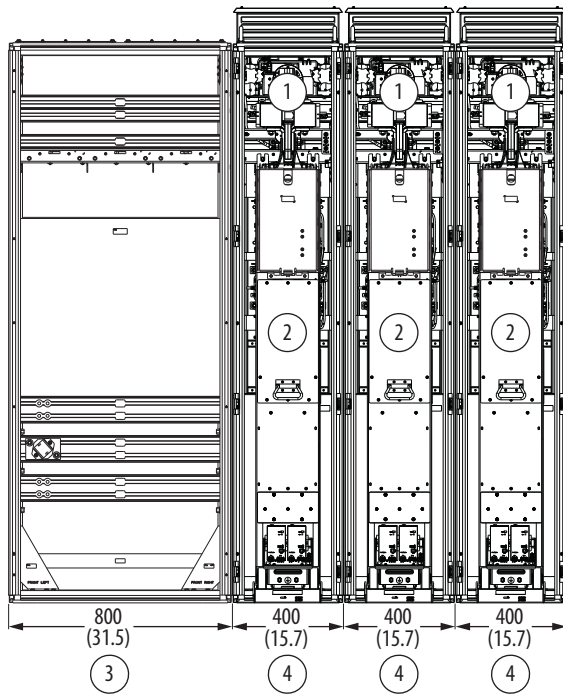
Two Dual Density (2X) and One Single Density (1X) NRS Modules Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148.
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138.
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153.

Three Dual Density (2X) NRS Modules Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

Three Dual Density (2X) NRS Modules Major Components - Front View



Left-to-Right Orientation.
Right-to-Left Orientation Not Shown.

Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description	Item	Description
1	DC link/fuse assembly	3	Wire bay
2	Dual density module	4	Power bay

Three Dual Density (2X) NRS Modules Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (800 mm)	20-750-MN-WBAY1-800	1	Choose a wire bay based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSPL2-4K7	1	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSPL1-4K7	1	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (wire bay to power bay)	20-750-MNIH-JMP3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Power Bay (400 mm)	—	3	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnxxxn	3	Choose three dual-density power modules. For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars (400 mm)	20-750-MNIR2	3	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK2-xx	3	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
DC link/fuse assembly support (400 mm)	20-750-MN-DCLS1-400	3	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	3	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	3	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .

Three Dual Density (2X) NRS Modules Major IP00 Component Kits (Continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	3	See Control Bus Assemblies on page 153 .
Interconnect wire harness (power bay to power bay)	20-750-MNIH-JMP2	2	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Interconnect wire harness (loop-back)	20-750-MNIH-JMP1	1	
Vent kit (400 mm)	20-750-MVENTn	3	See Ventilation Assemblies on page 162 .
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	3	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MN-PNL1-NRS	3	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MN-PNL3-NRS	3	

(1) Required for NRS power module mounting only.

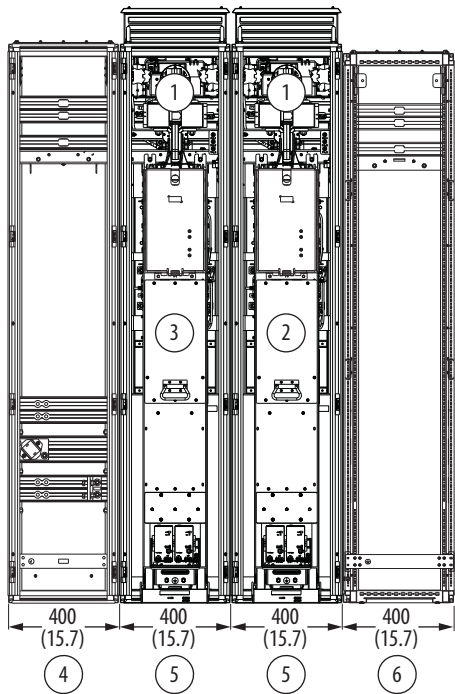
Three Dual Density (2X) NRS Modules Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148 .
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153 .

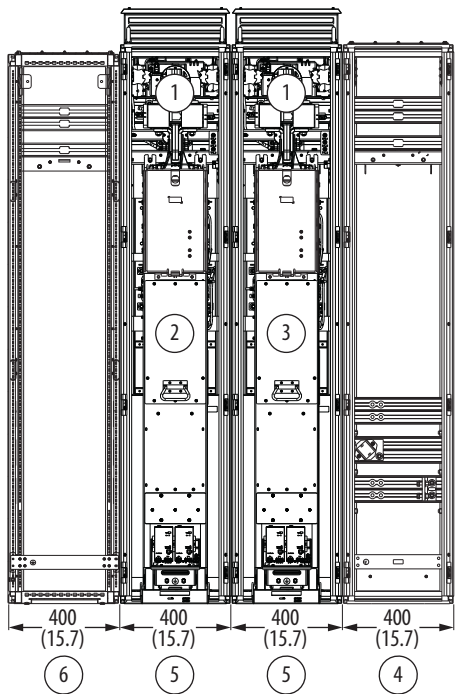
Two Dual Density (2X) and Two Single Density (1X) NRS Modules Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

Two Dual Density (2X) and Two Single Density (1X) NRS Modules Major Components - Front Views

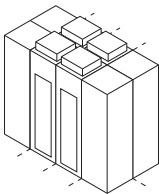


Left-to-Right Orientation

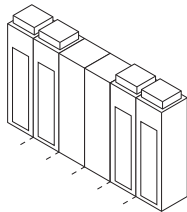


Right-to-Left Orientation

Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.



Final Back-to-Back Configuration



Final Inline Configuration

Item	Description
1	DC link/fuse assembly
2	Single density module
3	Dual density module

Item	Description
4	Wire bay
5	Power bay
6	DC voltage balance bay

Two Dual Density (2X) and Two Single Density (1X) NRS Modules Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (400 mm) (Inline Configuration Only)	20-750-MN-WBAYn-400	2	Choose wire bays based on power rating for an inline configuration. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSPL2-4K7	2	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSPL1-3K0	2	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (power bays to wire bays)	20-750-MNIH4	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Wire Entry Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400-FBR, or 20-750-DCVBB-400C-FBR	1	Choose one of the entry wire bay kits for a back-to-back configuration. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSPL2-4K7	2	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSPL1-3K0	2	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (power bays to wire bays)	20-750-MNIH3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Cabinet-Level Kits on page 154 .
Power Bay (400 mm)	—	4	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnnnn	4	Choose two single-density and two dual-density power modules. For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars (400 mm)	20-750-MNIR2	4	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK1-xx	2	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
	20-750-MN-DCLINK2-xx	2	
DC link/fuse assembly support (400 mm)	20-750-MN-DCLS1-400	1	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	4	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	4	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	4	See Control Bus Assemblies on page 153 .
Interconnect harness (power bay to power bay)	20-750-MNIH-JMP2	2	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Interconnect wire harness (loop-back)	20-750-MNIH-JMP1	2	
Vent kit (400 mm)	20-750-MVENTn	4	See Ventilation Assemblies on page 162 .
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	4	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MN-PNL1-NRS	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MN-PNL3-NRS	4	

(1) Required for NRS power module mounting only.

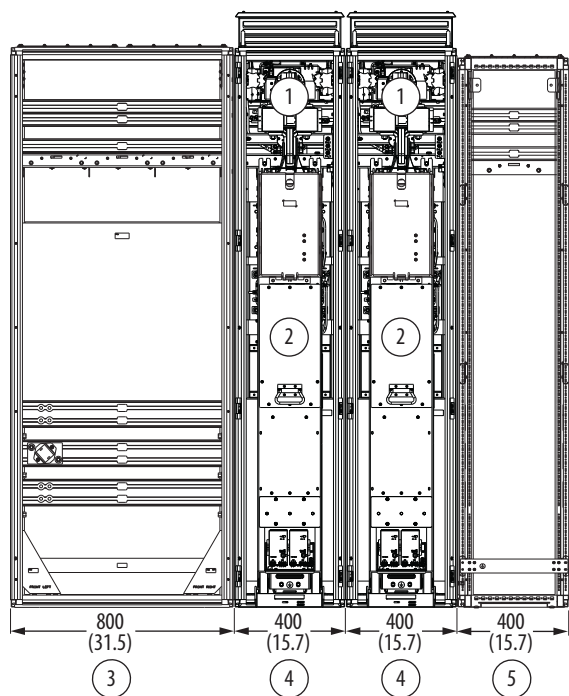
Two Dual Density (2X) and Two Single Density (1X) NRS Modules Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148 .
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153 .

Four Dual Density (2X) NRS Modules Configuration

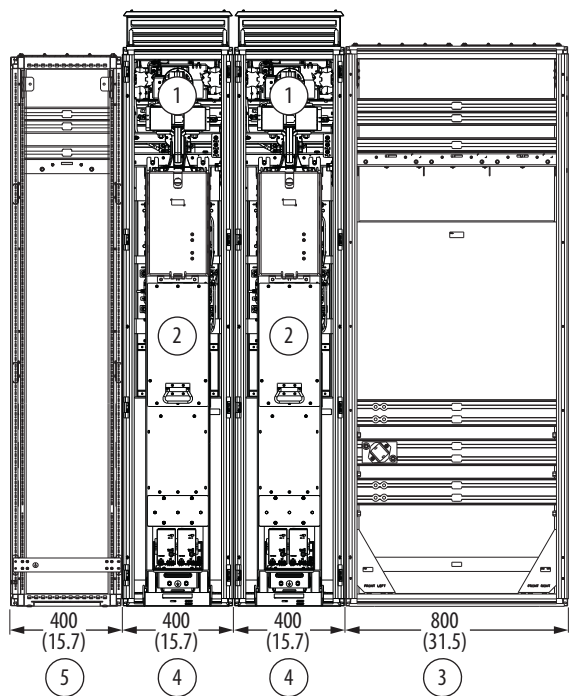
For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

Four Dual Density (2X) NRS Modules Major Components - Front Views

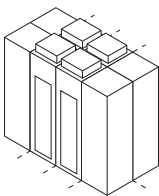


Left-to-Right Orientation

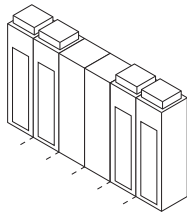
Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.



Right-to-Left Orientation



Final Back-to-Back Configuration



Final Inline Configuration

Item	Description
1	DC link/fuse assembly
2	Dual density module
3	Wire bay

Item	Description
4	Power bay
5	DC voltage balance bay

Four Dual Density (2X) NRS Modules Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (800 mm) (Inline Configuration Only)	20-750-MN-WBAYn-800	2	Choose wire bays based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSP2-4K7	2	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSP1-4K7	2	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (power bays to wire bays)	20-750-MNIH4	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Cabinet-Level Kits on page 154 .
AC bus bar splice kit	20-750-MACSP2-4K7	2	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSP1-4K7	2	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (power bays to wire bays)	20-750-MNIH3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Cabinet-Level Kits on page 154 .
Power Bay (400 mm)	—	4	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnnnn	4	Choose four dual-density power modules. For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars (400 mm)	20-750-MNIR2	4	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK2-xx	4	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
DC link/fuse assembly support (400 mm)	20-750-MN-DCLST-400	1	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	4	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	4	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	4	See Control Bus Assemblies on page 153 .
Thermal switch interconnect wire harness (pwr bay to pwr bay)	20-750-MNIH-JMP2	2	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Thermal switch interconnect wire harness (loop-back)	20-750-MNIH-JMP1	2	
Vent kit (400 mm)	20-750-MVENTn	4	See Ventilation Assemblies on page 162 .
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	4	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MN-PNL1-NRS	4	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MN-PNL3-NRS	4	

(1) Required for NRS power module mounting only.

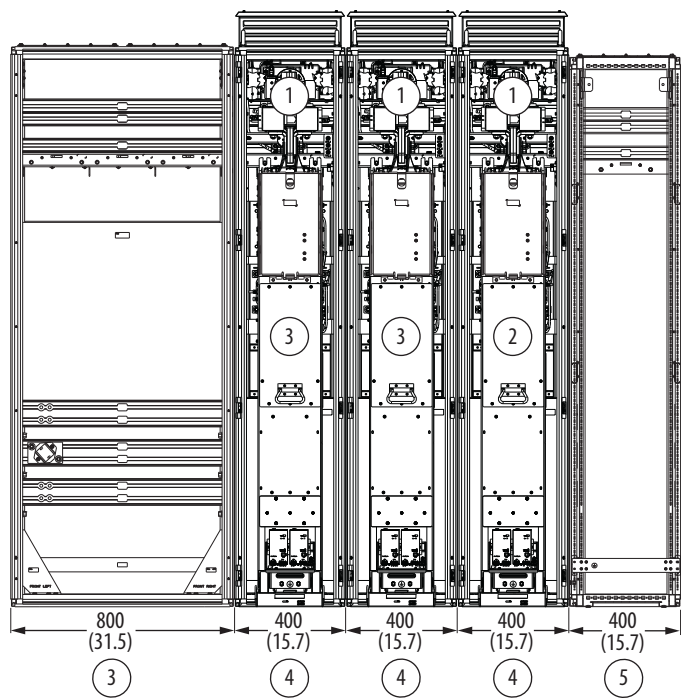
Four Dual Density (2X) NRS Modules Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148 .
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153 .

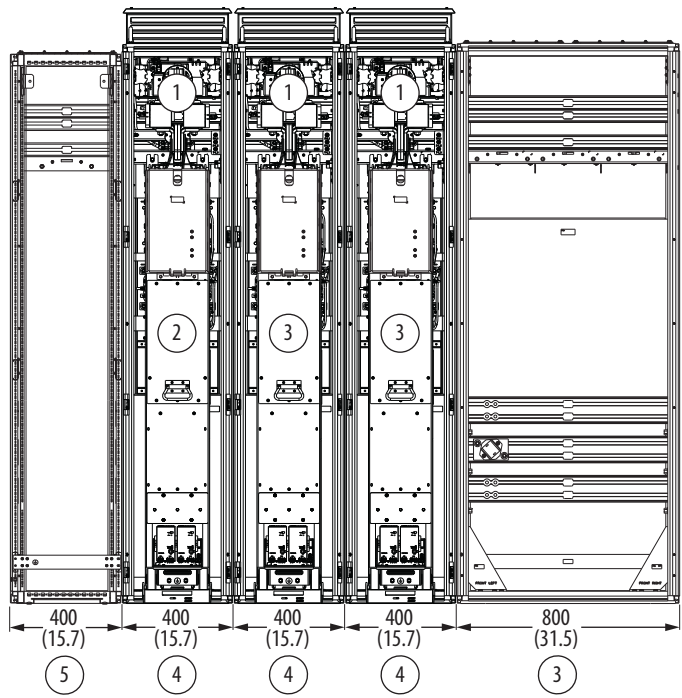
Four Dual Density (2X) and Two Single Density (1X) NRS Modules Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

Four Dual Density (2X) and Two Single Density (1X) NRS Modules Major Components - Front Views

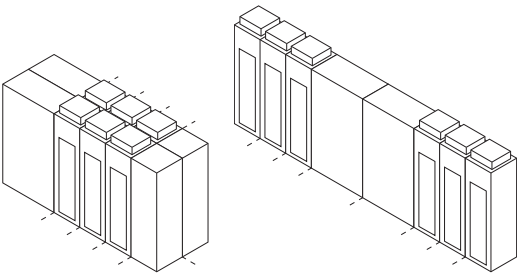


Left-to-Right Orientation



Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.

Right-to-Left Orientation



Final Back-to-Back Configuration

Final Inline Configuration

Item	Description
1	DC link/fuse assembly
2	Single density module
3	Dual density module

Item	Description
4	Wire bay
5	Power bay
6	DC voltage balance bay

Four Dual Density (2X) and Two Single Density (1X) NRS Modules Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (800 mm) (Inline Configuration Only)	20-750-MN-WBAYn-800	2	Choose wire bays based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSPL2-4K7	2	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSPL1-4K7	2	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (power bays to wire bays)	20-750-MNIH4	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Cabinet-Level Kits on page 154 .
AC bus bar splice kit	20-750-MACSPL2-4K7	2	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSPL1-4K7	2	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (power bays to wire bays)	20-750-MNIH3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Cabinet-Level Kits on page 154 .
Power Bay (400 mm)	—	6	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnnnnn	6	Choose two single-density and four dual-density power modules. For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars (400 mm)	20-750-MNIR2	6	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK1-xx	2	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
	20-750-MN-DCLINK2-xx	4	
DC link/fuse assembly support (400 mm)	20-750-MN-DCLS1-400	6	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	6	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	6	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier: Rockwell Automation) on page 138 .
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	6	See Control Bus Assemblies on page 153 .
Thermal switch interconnect wire harness (pwr bay to pwr bay)	20-750-MNIH-JMP2	4	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Thermal switch interconnect wire harness (loop-back)	20-750-MNIH-JMP1	2	
Vent kit (400 mm)	20-750-MVENTn	6	See Ventilation Assemblies on page 162 .
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	6	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MN-PNL1-NRS	6	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MN-PNL3-NRS	6	

(1) Required for NRS power module mounting only.

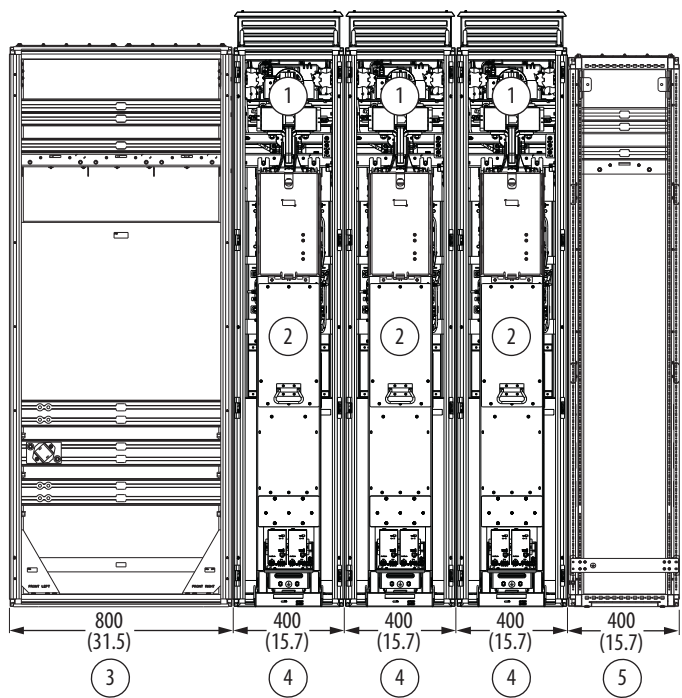
Four Dual Density (2X) and Two Single Density (1X) NRS Modules Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148 .
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier: Rockwell Automation) on page 138 .
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153 .

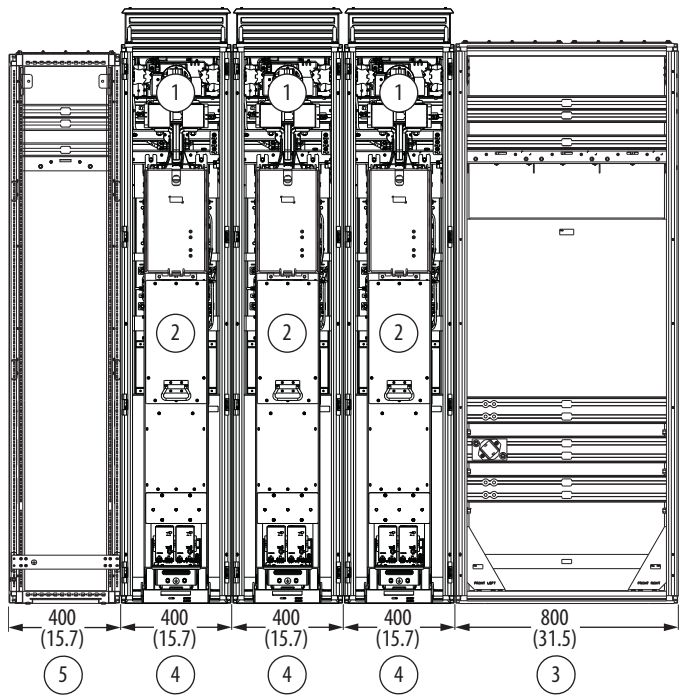
Six Dual Density (2X) NRS Modules Configuration

For power ratings applicable to this configuration, see [NRS Module Selection on page 87](#).

Six Dual Density (2X) NRS Modules Major Components - Front Views

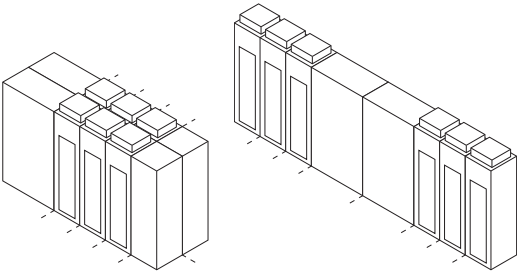


Left-to-Right Orientation



Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.

Right-to-Left Orientation



Final Back-to-Back Configuration

Final Inline Configuration

Item	Description
1	DC link/fuse assembly
2	Dual density module
3	Wire bay

Item	Description
4	Power bay
5	DC voltage balance bay

Six Dual Density (2X) NRS Modules Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry Bay (800 mm) (Inline Configuration Only)	20-750-MN-WBAYn-800	2	Choose wire bays based on power rating. See PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) on page 155 .
AC bus bar splice kit	20-750-MACSP12-4K7	2	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSP11-4K7	2	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (power bays to wire bays)	20-750-MNIH4	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Cabinet-Level Kits on page 154 .
AC bus bar splice kit	20-750-MACSP12-4K7	2	See Frame 8...15 and NRS AC Bus Bar Splices on page 150 .
DC bus bar splice kit	20-750-MDCSP11-4K7	2	See Frame 8...15 and NRS System DC Bus Bar Splice Kits on page 152 .
Interconnect harness (power bays to wire bays)	20-750-MNIH3	1	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Cabinet-Level Kits on page 154 .
Power Bay (400 mm)	—	6	See PowerFlex 755TM Power Bays (Supplier: Rittal) on page 154 for the NRS power bay Rittal part number.
NRS module	20-750-MNn-xnnnnnnn	6	Choose six dual-density power modules. For specification and rating information, see NRS Module Selection on page 87 . See also, NRS Modules Options on page 126 .
Back panel with stab receptacles with bus bars (400 mm)	20-750-MNIR2	6	For specification and rating information, see Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 151 to match power module rating.
DC link/fuse assembly	20-750-MN-DCLINK2-xx	6	For rating information, see DC Link/Fuse Modules (NRS) on page 148 .
DC link/fuse assembly support (400 mm)	20-750-MN-DCLST-400	6	See DC Link/Fuse Assembly Support Bracket Kits (NRS) on page 162 .
DC bus bar (400 mm)	20-750-MDCBUS4-nxn	6	For bus material, see Frame 8...15 and NRS System DC Bus Bars on page 152 .
Control Transformer with Fuse Holders and Fuses	20-750-MN-XMFR1-x	6	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus assembly (400 mm)	20-750-MCBUS1-PB-F8M ⁽¹⁾	6	See Control Bus Assemblies on page 153 .
Thermal switch interconnect wire harness (pwr bay to pwr bay)	20-750-MNIH-JMP2	4	See Non-Regenerative Supply System Interconnection Wire Harness Kits on page 157 for details.
Thermal switch interconnect wire harness (loop-back)	20-750-MNIH-JMP1	2	
Vent kit (400 mm)	20-750-MVENTn	6	See Ventilation Assemblies on page 162 .
Power module floor mount bracket (400 mm)	20-750-MMNT1-F8M	6	See Power and LCL Filter Module Floor and Support Brackets on page 161 .
Bus support panels, upper	20-750-MN-PNL1-NRS	6	See Bus Support and Divider Panels (Right and Left Sides) on page 161 .
Bus support panels, lower	20-750-MN-PNL3-NRS	6	

(1) Required for NRS power module mounting only.

Six Dual Density (2X) NRS Modules Options

Module or Kit Name	Description
DC bus conditioner (20-750-MDCBUS-COND or 20-750-MDCBUS1-COND)	See DC Bus Conditioner on page 148 .
Control Transformer with Fuse Holders and Fuses (20-750-MN-XMFR2-x)	For selection information, see Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page 138 .
Control bus connector (20-750-MCTRLBUS-CONN1)	See Control Bus Connectors on page 153 .

LCL Filter and Power Module Position Designations

LCL filter and power modules must be positioned in a specific order within the power bays. See the [PowerFlex 755T Products IP00 / Open Type Kit Selection by Equivalent Frame Size on page 8](#) for required modules and positions for a specific frame size, voltage class, and power rating.

LCL filter and power modules are assigned a position designation to help make point-to-point fiber-optic connections and troubleshooting easier. The position designations are designed to match parameter display names. For example, the voltage rating of the line side converter power module designated “LO” can be found in parameter 14:100 [LO Rated Volts].

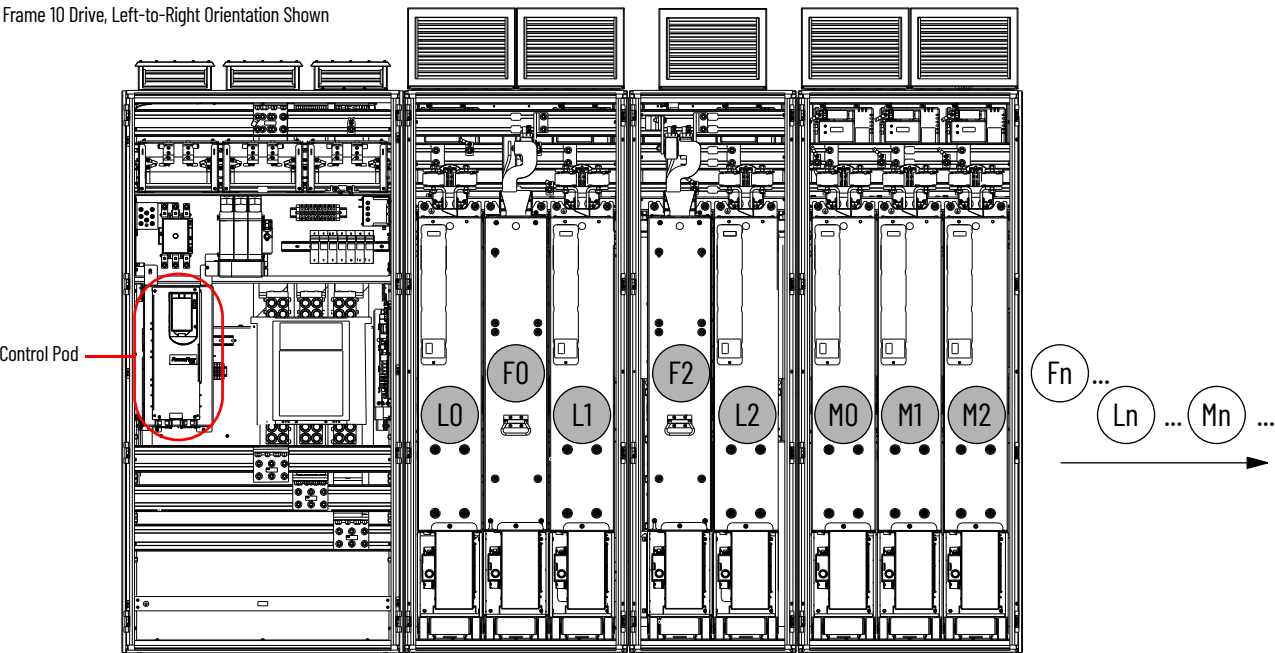
Line side converter power modules are designated “L.” Motor side inverter power modules are designated “M.” Power modules are numbered 0...9 based on the installation position relative to the control pod when it is installed in a control bay or input bay, as shown in this example. The power module closest to the control pod is numbered “0.” For example, in this illustration the line side converter power module closest to the control pod is designated “LO.”

LCL filter modules are designated “F.” LCL filter modules are numbered based on the position of the lowest numbered line side converter power module to which the LCL filter module fiber-optic cable is connected. For example, in this illustration the first LCL filter module fiber-optic cable is connected to both power modules LO and L1. Therefore, the first LCL filter module is designated “F0.”

Module designation labels are provided with all control pod kits. Depending on the date of the control pod purchase, the labels for LCL filter module are either LCLn or Fn. See the LCL Filter Module Labels for Frame Size table on page 114 for a list of LCL filter module labels.

LCL Filter and Power Module Position Designations Example

Frame 10 Drive, Left-to-Right Orientation Shown



Designation	Module
Fn	LCL filter module

Designation	Module
Ln	Line side converter power module

Designation	Module
Mn	Motor side inverter power module

LCL Filter Module Position Designation Labels

This table provides the possible position designation labels for LCL filter module.

LCL Filter Module Labels for Frame Size

Frame Size								
7 and 7L	8	9	10	11	12	13	14	15
LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0
—	—	—	LCL1 or F2	LCL1 or F2	LCL1 or F2	LCL1 or F2	LCL1 or F2	LCL1 or F2
—	—	—	—	—	LCL2 or F4	LCL2 or F3	LCL2 or F4	LCL2 or F4
—	—	—	—	—	—	LCL3 or F5	LCL3 or F6	LCL3 or F5
—	—	—	—	—	—	—	—	LCL4 or F7
—	—	—	—	—	—	—	—	LCL5 or F9

LCL Filter and Power Module Selection

The following tables list the combinations and quantities of required LCL filter and power modules for each equivalent frame size and product rating. These tables use the “Fn” position designation for LCL filter modules and “Ln” and “Mn” position designations for power modules.

Frame 7 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 7 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive)			
Position ->			FO		LO									MO			
kW Ratings			Qty.	Cat. No. (20-750-)	Qty.	Cat. No. ⁽¹⁾ (20-750-)	Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No. ⁽¹⁾ (20-750-)	Output Amps Ratings		
LD	ND	HD					LD	ND	HD	LD	ND	LD			LD	ND	HD
200	160	132	1	ML4-C585D617	1	MI4-C302D302	343	282	243	394	324	279	1	MI4-C302D302	367	302	260
250	200	160	1	ML4-C585D617	1	MI4-C367D361	430	343	282	494	394	324	1	MI4-C367D361	460	367	302
315	250	200	1	ML4-C585D617	1	MI4-C460D430	505	430	343	579	494	394	1	MI4-C460D430	540	460	367
315	315	250	1	ML4-C585D617	1	MI4-C540D505	547	505	430	628	579	494	1	MI4-C540D505	585	540	460
315	315	250	1	ML4-C585D617	1	MI4-C585D617	577	561	467	662	628	579	1	MI4-C585D617	617	600	500

(1) Use the “Cnnn” value in the power module catalog number to identify the 400V normal duty output amps rating.

480V Frame 7 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive)			
Position ->			FO		LO									MO			
Hp Ratings			Qty.	Cat. No. (20-750-)	Qty.	Cat. No. ⁽¹⁾ (20-750-)	Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No. ⁽¹⁾ (20-750-)	Output Amps Ratings		
LD	ND	HD					LD	ND	HD	LD	ND	LD			LD	ND	HD
300	250	200	1	ML4-C585D617	1	MI4-C302D302	323	271	222	371	311	255	1	MI4-C302D302	361	302	248
350	300	250	1	ML4-C585D617	1	MI4-C367D361	442	323	271	442	371	311	1	MI4-C367D361	430	361	302
400	350	300	1	ML4-C585D617	1	MI4-C460D430	499	385	323	499	442	371	1	MI4-C460D430	485	430	361
450	400	350	1	ML4-C585D617	1	MI4-C540D505	560	452	385	560	519	442	1	MI4-C540D505	544	505	430
500	500	400	1	ML4-C585D617	1	MI4-C585D617	634	538	448	634	617	514	1	MI4-C585D617	617	600	500

(1) Use the “Dnnn” value in the power module catalog number to identify the 480V normal duty output amps rating.

600V Frame 7 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive)			
Position ->			FO		LO									MO			
Hp Ratings			Qty.	Cat. No. (20-750-)	Qty.	Cat. No. ⁽¹⁾ (20-750-)	Input Amps Ratings			Output Amps Ratings at 870V DC			Qty.	Cat. No. ⁽¹⁾ (20-750-)	Output Amps Ratings		
LD	ND	HD					LD	ND	HD	LD	ND	LD			LD	ND	HD
250	200	150	1	ML4-E395F370	1	MI4-E192F171	217	172	129	249	197	148	1	MI4-E192F171	242	192	144
300	250	200	1	ML4-E395F370	1	MI4-E242F215	264	217	172	303	249	197	1	MI4-E242F215	295	242	192
350	300	250	1	ML4-E395F370	1	MI4-E295F265	318	264	217	365	303	249	1	MI4-E295F265	355	295	242
400	350	300	1	ML4-E395F370	1	MI4-E355F330	354	318	264	406	365	303	1	MI4-E355F330	395	355	295
450	400	350	1	ML4-E395F370	1	MI4-E395F370	390	354	318	447	406	365	1	MI4-E395F370	435	395	355

(1) Use the “Ennn” value in the power module catalog number to identify the 600V normal duty output amps rating.

690V Frame 7 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive)			
Position ->			FO		LO									MO			
kW Ratings			Qty.	Cat. No. (20-750-)	Qty.	Cat. No. ⁽¹⁾ (20-750-)	Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No. ⁽¹⁾ (20-750-)	Output Amps Ratings		
LD	ND	HD					LD	ND	HD	LD	ND	LD			LD	ND	HD
200	160	132	1	ML4-E395F370	1	MI4-E192F171	192	153	127	221	176	146	1	MI4-E192F171	215	171	142
250	200	160	1	ML4-E395F370	1	MI4-E242F215	237	192	153	272	221	176	1	MI4-E242F215	265	215	171

690V Frame 7 Module Requirements (Standard Product Voltage Rating Code F) (Continued)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive)					
Position ->			FO		LO									MO					
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No. ⁽¹⁾		Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No. ⁽¹⁾		Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	HD
315	250	200	1	ML4-E395F370	1	MI4-E295F265		295	237	192	339	272	221	1	MI4-E295F265		330	265	215
355	315	250	1	ML4-E395F370	1	MI4-E355F330		331	295	237	380	339	272	1	MI4-E355F330		370	330	265
400	355	315	1	ML4-E395F370	1	MI4-E395F370		371	331	295	426	380	339	1	MI4-E395F370		415	370	330

(1) Use the "Fnnn" value in the power module catalog number to identify the 690V normal duty output amps rating.

Frame 7L Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 7L Module Requirements

Module (Product) ->			LCL Filter (Drive)		Line Side Converter (Drive)									Motor Side Inverter (Drive)					
Position ->			FO		LO									MO					
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No. ⁽¹⁾		Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No. ⁽¹⁾		Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	HD
355	355	250	1	ML4-C585D617	1	MI5-C650D650		608	608	444	697	697	495	1	MI5-C650D650		650	650	477

(1) Use the "Cnnn" value in the power module catalog number to identify the 400V normal duty output amps rating.

480V Frame 7L Module Requirements

Module (Product) ->			LCL Filter (Drive)		Line Side Converter (Drive)									Motor Side Inverter (Drive)					
Position ->			FO		LO									MO					
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No. ⁽¹⁾		Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No. ⁽¹⁾		Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	HD
600	600	400	1	ML4-C585D617	1	MI5-C650D650		582	582	426	668	668	474	1	MI5-C650D650		650	650	400

(1) Use the "Dnnn" value in the power module catalog number to identify the 480V normal duty output amps rating.

Frame 8 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For AC precharge module selection, see [AC Precharge Modules on page 127](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 8 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			FO		LO									MO								
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.		Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No.		Input Amps Ratings at 540V DC			Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD	
200	160	132	1	MLI-C540D505	1	MI1-C302D302		343	282	243	394	324	279	1	MI1-C302D302		423	348	300	367	302	260
250	200	160	1	MLI-C540D505	1	MI1-C367D361		430	343	282	494	394	324	1	MI1-C367D361		530	423	348	460	367	302
315	250	200	1	MLI-C540D505	1	MI1-C460D430		505	430	343	579	494	394	1	MI1-C460D430		622	530	423	540	460	367
315	315	250	1	MLI-C540D505	1	MI1-C540D505		547	505	430	628	579	494	1	MI1-C540D505		674	622	530	585	540	460
355	315	250	1	MLI-C770D740	1	MI1-C585D545		582	547	430	667	628	494	1	MI1-C585D545		717	674	530	650	585	472
400	355	315	1	MLI-C770D740	1	MI1-C650D617		701	608	505	805	698	579	1	MI1-C650D617		864	749	622	750	650	540
400	400	315	1	MLI-C770D740	1	MI1-C750D710		720	701	547	826	805	628	1	MI1-C750D710		887	864	674	796	750	585
450	400	355	1	MLI-C770D740	1	MI1-C770D740		778	720	600	893	826	698	1	MI1-C770D740		959	887	740	832	770	650

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 8 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾						
Position ->			FO		LO									MO						
HP Ratings			Qty.	Cat. No. (20-750-)	Qty.	Cat. No. (20-750-)	Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No. (20-750-)	Input Amps Ratings at 650V DC			Output Amps Ratings		
LD	ND	HD					LD	ND	HD	LD	ND	LD			LD	ND	LD	LD	ND	HD
300	250	200	1	ML1-C540D505	1	MI1-C302D302	323	271	222	371	311	255	1	MI1-C302D302	399	333	274	361	302	248
350	300	250	1	ML1-C540D505	1	MI1-C367D361	385	323	271	442	371	311	1	MI1-C367D361	475	399	333	430	361	302
400	350	300	1	ML1-C540D505	1	MI1-C460D430	435	385	323	499	442	371	1	MI1-C460D430	535	475	399	485	430	361
450	400	350	1	ML1-C540D505	1	MI1-C540D505	488	452	385	560	519	442	1	MI1-C540D505	602	558	475	545	505	430
500	450	350	1	ML1-C770D740	1	MI1-C585D545	529	488	385	607	560	442	1	MI1-C585D545	651	602	475	617	545	454
600	500	400	1	ML1-C770D740	1	MI1-C650D617	636	553	435	730	635	499	1	MI1-C650D617	784	681	535	710	617	485
650	600	450	1	ML1-C770D740	1	MI1-C750D710	663	636	488	761	730	560	1	MI1-C750D710	817	784	602	765	710	545
700	650	500	1	ML1-C770D740	1	MI1-C770D740	717	663	553	823	761	635	1	MI1-C770D740	883	817	681	800	740	617

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 8 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾						
Position ->			FO		LO									MO						
HP Ratings			Qty.	Cat. No. (20-750-)	Qty.	Cat. No. (20-750-)	Input Amps Ratings			Output Amps Ratings at 870V DC			Qty.	Cat. No. (20-750-)	Input Amps Ratings at 810V DC			Output Amps Ratings		
LD	ND	HD					LD	ND	HD	LD	ND	LD			LD	ND	LD	LD	ND	HD
300	250	200	1	ML1-E395F370	1	MI1-E242F215	264	217	172	303	249	197	1	MI1-E242F215	326	267	212	295	242	192
350	300	250	1	ML1-E395F370	1	MI1-E295F265	318	264	217	365	303	249	1	MI1-E295F265	392	326	267	355	295	242
400	350	300	1	ML1-E395F370	1	MI1-E355F330	354	318	264	406	365	303	1	MI1-E355F330	436	392	326	395	355	295
450	400	350	1	ML1-E395F370	1	MI1-E395F370	390	354	318	447	406	365	1	MI1-E395F370	480	436	392	435	395	355
500	450	400	1	ML1-E545F505	1	MI1-E435F415	457	390	354	524	447	406	1	MI1-E435F415	563	480	436	510	435	395
600	550	450	1	ML1-E545F505	1	MI1-E545F505	520	488	403	596	560	463	1	MI1-E545F505	640	602	497	580	545	450

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 8 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾						
Position ->			FO		LO									MO						
kW Ratings			Qty.	Cat. No. (20-750-)	Qty.	Cat. No. (20-750-)	Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No. (20-750-)	Input Amps Ratings at 932V DC			Output Amps Ratings		
LD	ND	HD					LD	ND	HD	LD	ND	LD			LD	ND	LD	LD	ND	HD
250	200	160	1	ML1-E395F370	1	MI1-E242F215	237	192	153	272	221	176	1	MI1-E242F215	292	237	188	265	215	171
315	250	200	1	ML1-E395F370	1	MI1-E295F265	295	237	192	339	272	221	1	MI1-E295F265	364	292	237	330	265	215
355	315	250	1	ML1-E395F370	1	MI1-E355F330	331	295	237	380	339	272	1	MI1-E355F330	408	364	292	370	330	265
400	355	315	1	ML1-E395F370	1	MI1-E395F370	371	331	295	426	380	339	1	MI1-E395F370	457	408	364	415	370	330
450	400	355	1	ML1-E545F505	1	MI1-E435F415	411	371	331	472	426	380	1	MI1-E435F415	507	457	408	460	415	370
560	500	400	1	ML1-E545F505	1	MI1-E545F505	505	452	371	580	518	426	1	MI1-E545F505	623	556	457	565	505	415

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 9 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For AC precharge module selection, see [AC Precharge Modules on page 127](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 9 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			FO			LO and LI									M0 and M1								
kW Ratings			Qty.	Cat. No.		Qty.	Cat. No.		Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No.		Input Amps Ratings at 540V DC			Output Amps Ratings		
LD	ND	HD		(20-750-)			(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	LD	LD	ND	HD
560	500	400	1	ML1-C1K1D1K0		2	MI2-C460D430		972	860	720	1116	987	826	2	MIn-C460D430		1198	1060	887	1040	920	770
630	560	500	1	ML1-C1K1D1K0		2	MI2-C540D505		1019	972	860	1170	1116	987	2	MIn-C540D505		1256	1198	1060	1090	1040	920
710	630	500	1	ML1-C1K4D1K3		2	MI2-C585D545		1105	1039	972	1268	1193	1116	2	MIn-C585D545		1361	1281	1198	1182	1112	1040
800	710	560	1	ML1-C1K4D1K3		2	MI2-C650D617		1370	1099	1019	1572	1261	1170	2	MIn-C650D617		1688	1354	1256	1465	1175	1090
850	800	630	1	ML1-C1K4D1K3		2	MI2-C770D740		1478	1368	1099	1696	1570	1261	2	MIn-C770D740		1821	1685	1354	1581	1465	1175

(1) Motor side inverters have filter options: M11 = no filter, M12 = with paralleling inductor, M13 = with reflective wave filter.

480V Frame 9 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			FO			LO and LI									M0 and M1								
Hp Ratings			Qty.	Cat. No.		Qty.	Cat. No.		Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No.		Input Amps Ratings at 650V DC			Output Amps Ratings		
				(20-750-)			(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	LD	LD	ND	HD
LD	ND	HD																					
800	700	600	1	ML1-C1K1D1K0		2	MI2-C460D430		860	717	663	987	823	761	2	MIn-C460D430		1060	883	817	960	800	740
900	800	700	1	ML1-C1K1D1K0		2	MI2-C540D505		936	860	717	1075	987	823	2	MIn-C540D505		1154	1060	883	1045	960	800
1000	900	750	1	ML1-C1K4D1K3		2	MI2-C585D545		1004	936	860	1153	1075	987	2	MIn-C585D545		1238	1154	1060	1135	1045	960
1100	1000	800	1	ML1-C1K4D1K3		2	MI2-C650D617		1223	1017	936	1404	1167	1075	2	MIn-C650D617		1507	1253	1154	1365	1135	1045
1250	1100	900	1	ML1-C1K4D1K3		2	MI2-C770D740		1362	1223	1017	1563	1404	1167	2	MIn-C770D740		1678	1507	1253	1520	1365	1135

(1) Motor side inverters have filter options: M11 = no filter, M12 = with paralleling inductor, M13 = with reflective wave filter.

600V Frame 9 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			FO			LO and LI									M0 and M1								
Hp Ratings			Qty.	Cat. No.		Qty.	Cat. No.		Input Amps Ratings			Output Amps Ratings at 870V DC			Qty.	Cat. No.		Input Amps Ratings at 810V DC			Output Amps Ratings		
				(20-750-)			(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	LD	LD	ND	HD
LD	ND	HD																					
700	600	550	1	ML1-E760F735		2	MI2-E295F265		618	520	488	710	596	560	2	MIn-E295F265		762	640	602	690	580	545
800	700	600	1	ML1-E760F735		2	MI2-E355F330		681	618	520	782	710	612	2	MIn-355F330		839	762	640	760	690	595
900	800	700	1	ML1-E760F735		2	MI2-E395F370		739	681	618	848	782	710	2	MIn-E395F370		911	839	762	825	760	690
1000	900	800	1	ML1-E980F920		2	MI2-E435F415		878	739	681	1008	848	782	2	MIn-E435F415		1082	911	839	980	825	760
1100	1000	900	1	ML1-E980F920		2	MI2-E545F505		987	878	739	1133	1008	848	2	MIn-E545F505		1217	1082	911	1102	980	825

(1) Motor side inverters have filter options: M11 = no filter, M12 = with paralleling inductor, M13 = with reflective wave filter.

690V Frame 9 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			FO			LO and LI									MO and MI								
kW Ratings			Qty.	Cat. No.		Qty.	Cat. No.		Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No.		Input Amps Ratings at 932V DC			Output Amps Ratings		
				(20-750-)			(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	LD	LD	ND	HD
630	560	500	1	ML1-E760F735		2	MI2-E295F265		581	505	452	580	580	518	2	M1n-E295F265		716	623	556	650	565	505
710	630	560	1	ML1-E760F735		2	MI2-355F330		657	581	505	754	667	580	2	M1n-355F330		810	716	623	735	650	565
800	710	630	1	ML1-E760F735		2	MI2-E395F370		733	657	581	842	754	667	2	M1n-E395F370		904	810	716	820	735	650
900	800	710	1	ML1-E980F920		2	MI2-E435F415		823	733	657	944	842	754	2	M1n-E435F415		1014	904	810	920	820	735
1000	900	800	1	ML1-E980F920		2	MI2-E545F505		960	823	733	1102	944	842	2	M1n-E545F505		1183	1014	904	1074	920	820

(1) Motor side inverters have filter options: M11 = no filter, M12 = with paralleling inductor, M13 = with reflective wave filter.

Frame 10 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 10 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0		F2		L0...L2									M0...M2								
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No.	Input Amps Ratings at 540V DC			Output Amps Ratings			Qty.	Cat. No.
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)								(20-750-)								(20-750-)
1000	850	710	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C650D617	1603	1478	1370	1840	1697	1572	3	Min-C650D617	1976	1821	1688	1715	1590	1465		
1250	1000	800	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C750D710	2010	1603	1384	2307	1840	1588	3	Min-C750D710	2477	1976	1705	2150	1715	1480		
1400	1250	1000	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C770D740	2178	2016	1603	2500	2314	1840	3	Min-C770D740	2684	2484	1976	2330	2156	1715		

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 10 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0		F2		L0...L2									M0...M2								
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No.	Input Amps Ratings at 650V DC			Output Amps Ratings			Qty.	Cat. No.
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)								(20-750-)								(20-750-)
1500	1250	1000	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C650D617	1483	1272	1223	1702	1460	1404	3	Min-C650D617	1827	1568	1507	1655	1420	1365		
1800	1500	1100	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C750D710	1855	1483	1272	2129	1702	1460	3	Min-C750D710	2285	1827	1568	2070	1655	1420		
2000	1800	1500	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C770D740	2007	1857	1483	2304	2131	1702	3	Min-C770D740	2473	2288	1827	2240	2072	1655		

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 10 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0		F2		L0...L2									M0...M2								
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 870V DC			Qty.	Cat. No.	Input Amps Ratings at 810V DC			Output Amps Ratings			Qty.	Cat. No.
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)								(20-750-)								(20-750-)
1250	1100	1000	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E409F390	1093	936	878	1255	1075	1008	3	Min-E409F390	1347	1154	1082	1220	1045	980		
1500	1250	1100	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E435F415	1281	1093	936	1471	1255	1075	3	Min-E435F415	1579	1347	1154	1430	1220	1045		
1600	1500	1250	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E545F505	1455	1281	1093	1670	1471	1255	3	Min-E545F505	1793	1579	1347	1624	1430	1220		

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 10 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0		F2		L0...L2									M0...M2								
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No.	Input Amps Ratings at 932V DC			Output Amps Ratings			Qty.	Cat. No.
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)								(20-750-)								(20-750-)
1100	1000	900	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E409F390	1028	921	823	1180	1057	944	3	Min-E409F390	1267	1135	1014	1150	1030	920		
1250	1100	1000	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E435F415	1202	1028	921	1380	1180	1057	3	Min-E435F415	1481	1267	1135	1344	1150	1030		
1500	1400	1100	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E545F505	1365	1269	1039	1624	1456	1193	3	Min-E545F505	1743	1564	1280	1582	1419	1162		

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 11 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 11 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0 and F2		L0...L3									M0...M3								
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No.	Input Amps Ratings at 540V DC			Output Amps Ratings				
							LD	ND	HD	LD	ND	LD			LD	ND	LD	LD	ND	HD		
1800	1650	1400	2	ML1-C1K4D1K3	4	MI2-C770D740	2878	2664	2179	3303	3057	2500	4	Min-C770D740	3546	3282	2684	3078	2849	2330		

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 11 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0 and F2		L0...L3									M0...M3								
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No.	Input Amps Ratings at 650V DC			Output Amps Ratings				
LD	ND	HD		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD		
2600	2400	2000	2	ML1-C1K4D1K3	4	MI2-C770D740	2652	2453	2007	3044	2816	2304	4	MIIn-C770D740	3268	3023	2473	2960	2738	2240		

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 11 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0 and F2			L0...L3									M0...M3								
Hp Ratings			Qty.	Cat. No.		Qty.	Cat. No.		Input Amps Ratings			Output Amps Ratings at 870V DC			Qty.	Cat. No.		Input Amps Ratings at 810V DC			Output Amps Ratings		
LD	ND	HD		(20-750-)			(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	LD	LD	ND	HD
2100	2000	1800	2	ML1-E980F920		4	MI2-E545F505		1923	1744	1523	2207	2001	1748	4	MIIn-E545F505		2369	2148	1877	2146	1946	1700

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 11 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0 and F2		L0...L3									M0...M3								
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No.	Input Amps Ratings at 932V DC			Output Amps Ratings				
				(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD		
LD	ND	HD																				
2000	1800	1500	2	ML1-E980F920	4	MI2-E545F505	1803	1668	1373	2146	1914	1576	4	MIIn-E545F505	2304	2055	1692	2091	1865	1535		

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 12 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 12 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾								
Position ->			F0 and F2		F4	L0...L4									M0...M4								
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No.	Input Amps Ratings at 540V DC			Output Amps Ratings			
				(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD	
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD	
2200	2000	1650	2	ML1-C1K4D1K3	1	ML1-C770D740	5	MI2-C770D740	3578	3312	2835	4127	3801	3254	5	Min-C770D740	4409	4081	3493	3846	3542	3032	

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 12 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)							Motor Side Inverter (Drive and CBI) ⁽¹⁾									
Position ->			F0 and F2		F4	L0...L4							M0...M4									
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No.	Input Amps Ratings at 650V DC			Output Amps Ratings		
				(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
3300	3000	2400	2	ML1-C1K4D1K3	1	ML1-C770D740	5	MI2-C770D740	3297	3050	2670	3784	3501	3065	5	Min-C770D740	4063	3758	3290	3696	3404	2980

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 12 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾							
Position ->			F0 and F2		F4	L0...L4									M0...M4							
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 870V DC			Qty.	Cat. No.	Input Amps Ratings at 810V DC			Output Amps Ratings		
				(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
2600	2500	2100	2	ML1-E980F920	1	ML1-E545F505	5	MI2-E545F505	2391	2168	1855	2744	2489	2129	5	Min-E545F505	2946	2672	2285	2668	2420	2070

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 12 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾							
Position ->			F0 and F2		F4	L0...L4									M0...M4							
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No.	Input Amps Ratings at 932V DC			Output Amps Ratings		
				(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
2500	2300	2000	2	ML1-E980F920	1	ML1-E545F505	5	MI2-E545F505	2242	2073	1807	2668	2379	2073	5	Min-E545F505	2864	2554	2226	2599	2318	2020

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 13 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 13 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)								Motor Side Inverter (Drive and CBI) ⁽¹⁾							
Position ->			F0 and F3		F2 and F5		L0...L5								M0...M5							
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No.	Input Amps Ratings at 540V DC			Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
2475	2200	1953	2	ML1-C1K4D1K3	2	ML1-C770D740	6	MI2-C770D740	4279	3960	3300	4912	4543	3839	6	MIn-C770D740	5275	4879	4070	4576	4235	3575

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 13 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)								Motor Side Inverter (Drive and CBI) ⁽¹⁾							
Position ->			F0 and F3		F2 and F5		L0...L5								M0...M5							
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No.	Input Amps Ratings at 650V DC			Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
3900	3600	2800	2	ML1-C1K4D1K3	2	ML1-C770D740	6	MI2-C770D740	3944	3647	3042	4527	4186	3493	6	MIn-C770D740	4857	4494	3746	4440	4070	3394

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 13 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)								Motor Side Inverter (Drive and CBI) ⁽¹⁾							
Position ->			F0 and F3		F2 and F5		L0...L5								M0...M5							
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 870V DC			Qty.	Cat. No.	Input Amps Ratings at 810V DC			Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
3300	3100	2500	2	ML1-E980F920	2	ML1-E545F505	6	MI2-E545F505	2860	2684	2217	3278	3080	2547	6	MIn-E545F505	3520	3311	2734	3190	2998	2475

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 13 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)								Motor Side Inverter (Drive and CBI) ⁽¹⁾							
Position ->			F0 and F3		F2 and F5		L0...L5								M0...M5							
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No.	Input Amps Ratings at 932V DC			Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
3080	2750	2200	2	ML1-E980F920	2	ML1-E545F505	6	MI2-E545F505	2778	2486	2041	3190	2849	2343	6	MIn-E545F505	3427	3058	2514	3108	2778	2283

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 14 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 14 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾						
Position ->			FD...F6			LD...L7									MD...M7						
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No.	Input Amps Ratings at 540V DC			Output Amps Ratings			
LD	ND	HD		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD	
3285	2920	2592	4	ML1-C1K4D1K3	8	MI2-C770D740	5679	5256	4380	6519	6030	5095	8	MIIn-C770D740	7001	6475	5402	6074	5621	4745	

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 14 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)								Motor Side Inverter (Drive and CBI) ⁽¹⁾							
Position ->			FO...F6		LO...L7								MO...M7							
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No.	Input Amps Ratings at 650V DC			Output Amps Ratings		
LD	ND	HD		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD
5200	4800	3700	4	ML1-C1K4D1K3	8	MI2-C770D740	5234	4840	4037	6008	5555	4636	8	MIIn-C770D740	6446	5964	4971	5840	5402	4504

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 14 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)		Line Side Converter (Drive and Bus Supply)										Motor Side Inverter (Drive and CBI) ⁽¹⁾							
Position ->			FO...F6		LO...L7										MO...M7							
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 870V DC				Qty.	Cat. No.	Input Amps Ratings at 810V DC			Output Amps Ratings			
LD	ND	HD		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD	(20-750-)		LD	ND	LD	LD	ND	HD		
4400	4100	3300	4	ML1-E980F920	8	MI2-E545F505	3796	3562	2942	4351	4088	3380	8	MIIn-E545F505	4672	4395	3628	4234	3979	3285		

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 14 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->			LCL Filter (Drive and Bus Supply)			Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾						
Position ->			F0...F6			L0...L7									M0...M7						
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No.	Input Amps Ratings at 932V DC			Output Amps Ratings			
				(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD	
LD	ND	HD																			
4088	3650	2920	4	ML1-E980F920	8	MI2-E545F505	3687	3300	2708	4234	3781	3110	8	MIIn-E545F505	4548	4059	3336	4125	3687	3030	

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 15 Module Selection

For required airflow rates, see [Required Enclosure Airflow Rates on page 256](#). For equivalent PowerFlex 755T product watts loss data, see [Approximate Watts Loss on page 175](#).

400V Frame 15 Module Requirements (Standard Product Voltage Rating Code C)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)									Motor Side Inverter (Drive and CBI) ⁽¹⁾											
Position ->			F0, F2, F5, and F7		F4 and F9		L0...L9									M0...M9											
kW Ratings			Qty.	Cat. No.		Qty.	Cat. No.		Qty.	Cat. No.			Input Amps Ratings			Output Amps Ratings at 580V DC			Qty.	Cat. No.		Input Amps Ratings at 540V DC			Output Amps Ratings		
				(20-750-)			(20-750-)			(20-750-)			LD	ND	HD	LD	ND	LD		(20-750-)		LD	ND	LD	LD	ND	HD
LD	ND	HD																									
4095	3640	3231	4	ML1-C1K4D1K3		2	ML1-C770D740		10	MI2-C770D740			7080	6552	5460	8126	7517	6352	10	M1n-C770D740		8727	8072	6734	7571	7007	5915

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 15 Module Requirements (Standard Product Voltage Rating Code D)

Module (Product) ->				LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)								Motor Side Inverter (Drive and CBI) ⁽¹⁾										
Position ->				F0, F2, F5, and F7		F4 and F9		L0...L9								M0...M9										
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.			Input Amps Ratings			Output Amps Ratings at 696V DC			Qty.	Cat. No.			Input Amps Ratings at 650V DC			Output Amps Ratings		
				(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD	(20-750-)	LD		ND	LD	LD	ND	HD				
LD	ND	HD		(20-750-)		(20-750-)		LD	ND	HD	LD	ND	LD		(20-750-)	LD	ND	LD	LD	ND	HD					
6400	6000	4600	4	ML1-C1K4D1K3	2	ML1-C770D740	10	MI2-C770D740	6525	6033	5032	7489	6925	5779	10	M1n-C770D740	8035	7435	6197	7280	6734	5615				

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 15 Module Requirements (Standard Product Voltage Rating Code E)

Module (Product) ->			LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)								Motor Side Inverter (Drive and CBI) ⁽¹⁾										
Position ->			F0, F2, F5, and F7		F4 and F9		L0...L9								M0...M9										
Hp Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.			Input Amps Ratings			Output Amps Ratings at 870V DC			Qty.	Cat. No.		Input Amps Ratings at 810V DC			Output Amps Ratings		
				(20-750-)		(20-750-)		(20-750-)	LD	ND	HD	LD	ND	LD	(20-750-)	LD		ND	LD	LD	ND	HD			
LD	ND	HD		(20-750-)		(20-750-)												(20-750-)							
5500	5100	4100	4	ML1-E980F920	2	ML1-E545F505	10	MI2-E545F505	4732	4441	3667	5424	5096	4213	10	M1n-E545F505	5824	5478	4523	5278	4960	4095			

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 15 Module Requirements (Standard Product Voltage Rating Code F)

Module (Product) ->				LCL Filter (Drive and Bus Supply)				Line Side Converter (Drive and Bus Supply)								Motor Side Inverter (Drive and CBI) ⁽¹⁾										
Position ->				F0, F2, F5, and F7		F4 and F9		L0...L9								M0...M9										
kW Ratings			Qty.	Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.			Input Amps Ratings			Output Amps Ratings at 1000V DC			Qty.	Cat. No.		Input Amps Ratings at 932V DC			Output Amps Ratings			
				(20-750-)		(20-750-)																				(20-750-)
LD	ND	HD		(20-750-)		(20-750-)																				
5096	4550	3640	4	ML1-E980F920	2	ML1-E545F505	10	MI2-E545F505	4596	4113	3376	5278	4714	3877	10	MI1n-E545F505	5669	5060	4159	5142	4596	3777				

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

IP00 Kit Selection

This section provides IP00 kit selection information.

Power Modules Options (Frames 7...15 and 7L)

Cat. No.			Voltage	Amps (Normal Duty)	Fuse Rating Amps/leg (1/leg)	Max Weight [kg (lb)]	System Control Power Consumption (Amps)
No Filtering	With Paralleling Inductor	With Reflected Wave Filter					
20-750-MI1-C302D302	—	20-750-MI3-C302D302	400	302	1400 (170M6467)	141 (312) With packaging: 192 (424)	240V AC Supply: 2.9 24V DC Supply: 1.4
20-750-MI4-C302D302 ⁽¹⁾			480	302			
20-750-MI1-C367D361	—	20-750-MI3-C367D361	400	367			
20-750-MI4-C367D361 ⁽¹⁾			480	361			
20-750-MI1-C460D430	—	20-750-MI3-C460D430	400	460			
20-750-MI4-C460D430 ⁽¹⁾			480	430			
20-750-MI1-C540D505	20-750-MI2-C540D505	20-750-MI3-C540D505	400	540			
20-750-MI4-C540D505 ⁽¹⁾			480	505			
20-750-MI1-C585D545	20-750-MI2-C585D545	20-750-MI3-C585D545	400	585			
20-750-MI4-C585D545 ⁽¹⁾			480	545			
20-750-MI4-C585D617 ⁽¹⁾	—	—	400	600			
			480	600			
20-750-MI1-C650D617	20-750-MI2-C650D617	20-750-MI3-C650D617	400	650		55 (122) With Packaging: 69 (152)	240V AC Supply: 1.5 24V DC Supply: 1.4
20-750-MI5-C650D650			480	650			
20-750-MI1-C750D710	20-750-MI2-C750D710	20-750-MI3-C750D710	400	750	1100 (170M6499)	141 (312) With packaging: 192 (424)	240V AC Supply: 2.9 24V DC Supply: 1.4
			480	710			
20-750-MI1-C770D740	20-750-MI2-C770D740	20-750-MI3-C770D740	400	770			
			480	740			
20-750-MI4-E192F171 ⁽¹⁾	—	—	600	192			
			690	171			
20-750-MI1-E242F215	—	20-750-MI3-E242F215	600	242			
20-750-MI4-E242F215 ⁽¹⁾			690	215			
20-750-MI1-E295F265	—	20-750-MI3-E295F265	600	295			
20-750-MI4-E295F265 ⁽¹⁾			690	265			
20-750-MI1-E355F330	20-750-MI2-E355F330	20-750-MI3-E355F330	600	355			
20-750-MI4-E355F330 ⁽¹⁾			690	330			
20-750-MI1-E395F370	20-750-MI2-E395F370	20-750-MI3-E395F370	600	395			
20-750-MI4-E395F370 ⁽¹⁾			690	370			
—	20-750-MI2-E409F390	20-750-MI3-E409F390	600	409			
			690	390			
20-750-MI1-E435F415	20-750-MI2-E435F415	20-750-MI3-E435F415	600	435			
			690	415			
20-750-MI1-E545F505	20-750-MI2-E545F505	20-750-MI3-E545F505	600	545			
20-750-MI1-E545F505C ⁽²⁾	20-750-MI2-E545F505C ⁽²⁾	20-750-MI3-E545F505C ⁽²⁾	690	505			

(1) Module weights: No packaging, 113.4 kg (250 lb), with packaging, 164.2 kg (362 lb).

(2) The letter 'C' at the end of a catalog number indicates that the module uses all-copper components.

NRS Modules Options

Cat. No.		Voltage	Input Amps AC (Normal Duty)	Output Amps DC (Normal Duty)	Fuse Rating Amps/leg (1/leg)	Max Weight [kg (lb)]	240V AC Control Power Consumption (Amps)
With Bus Capacitors	No Bus Capacitors						
20-750-MN1-C770D740	20-750-MN2-C770D740	400	739	887	1250 (170M6466)	134 (295) With packaging: 157 (345)	1.1
		480	681	817			
20-750-MN1-C1K4D1K3	20-750-MN2-C1K4D1K3	400	1406	1685	900 (170M6463)	204 (450) With packaging: 227 (500)	2.0
		480	1256	1507			
20-750-MN1-E545F505	20-750-MN2-E545F505	600	501	602	2000 (170M6471)	134 (295) With packaging: 157 (345)	1.1
		690	501	602			
20-750-MN1-E980F920	20-750-MN2-E980F920	600	901	1082	1400 (170M6467)	204 (450) With packaging: 227 (500)	2.0
		690	901	1082			

LCL Filter Modules Options

Cat. No.	Voltage	Amps (Normal Duty)	Fuse Rating Amps/leg (1/leg)	Max Weight [kg (lb)]	System Control Power Consumption (Amps)
20-750-ML1-C540D505	400	540	900 (170M6463)	213 (470)	240V AC Supply: 2.9 24V DC Supply: 0.9
	480	505		With packaging: 264 (582)	
20-750-ML4-C585D617	400	600	900 (170M6463) ⁽¹⁾	175 (385)	
	480	600	1000 (170M6464) ⁽²⁾	With packaging: 226 (497)	
20-750-ML1-C770D740	400	770	1250A (170M6466)	213 (470)	
	480	740		With packaging: 264 (582)	
20-750-ML1-C1K1D1K0	400	1100	1800 (170M6470)	322.1 (710)	
	480	1000		With packaging: 373.9 (822)	
20-750-ML1-C1K4D1K3	400	1400	2000 (170M6471)		
	480	1300			
20-750-ML1-E395F370	600	395	700 (170M6461)	213 (470)	
	690	370		With packaging: 264 (582)	
20-750-ML4-E395F370	600	395		175 (385)	
	690	370		With packaging: 226 (497)	
20-750-ML1-E545F505	600	545	900 (170M6463)	213 (470)	
	690	505		With packaging: 264 (582)	
20-750-ML1-E760F735	600	760	1250 (170M6466)	322.1 (710)	
	690	735		With packaging: 373.9 (822)	
20-750-ML1-E980F920	600	980	1600 (170M6469)		
	690	920			

(1) Used with frame 7 products only.

(2) Used with frame 7L liquid cooled drives only.

AC Precharge Modules ⁽¹⁾

Cat. No.	Frame Size	Voltage	Amps (Normal Duty)	Max Weight [kg (lb)]	System Control Power Consumption (Amps)
20-750-MACP-CD-F8M	8	400/480	720/663	43 (95)	240V AC Supply: 0.6 24V DC Supply: 1.5
20-750-MACP-E-F8M		600	488	With packaging: 88.5 (195)	
20-750-MACP-F-F8M		690	452		
20-750-MACP-CD-F9M	9	400/480	1368/1223	130 (287)	
20-750-MACP-E-F9M		600	878	With packaging: 177 (392)	
20-750-MACP-F-F9M		690	823		

(1) AC precharge modules include a circuit breaker, fused disconnect, contactor, precharge resistors, time delay relay, TVSS module, AC precharge control circuit board, and AC precharge path terminal blocks, fuse blocks and fuses.

AC Precharge Circuit Breakers (Supplier: Rockwell Automation)

Cat. No.	Breaker Cat. No.	Frame Size	Voltage	Weight [kg (lb)]	Dimensions (H x W x D)
20-750-MACPCCB-1K0	140G-NSOH3-E12-MA-RA-UA-FJ ⁽¹⁾	7, 7L	400/480/600/690V	11.0 (24.25)	268.0 x 209.8 x 177.8 mm (10.55 x 8.26 x 7.0 in.)
20-750-MACPCCB-1K0-F8M ⁽²⁾		8			

(1) If you purchase this circuit breaker separately, you must also purchase and install the applicable Padlockable handle block, rating plug, auxiliary/trip unit contact, and trip reset accessories.

(2) This circuit breaker is included in the frame 8 AC precharge module and can be used as a replacement. See the PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication [750-TG100](#) for details.

AC Precharge Circuit Breakers (Supplier: ABB)

Cat. No.	Breaker Cat. No.	Frame Size ⁽¹⁾	Voltage	Weight [kg (lb)]	Dimensions (H x W x D)
20-750-MACPCCB-E-2K0	T8VBD3GC0HBDHHE9	9	400/480/600V	73.0 (160.94)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
		10	600V		
		13	600V		
20-750-MACPCCB-F-2K0	T8VFD3GC0HBDHHE9	9	690V	73.0 (160.94)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
		10			
		13			
20-750-MACPCCB-CDE-3K0	T8VBF3JC0HBDHHE9	10	400/480V	73.0 (160.94)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
		12	600V		
		13	400/480V		
		15	600V		
20-750-MACPCCB1-CD-4K0	Z6VJURBA000BCGGG	11	400/480V	142.0 (313.1)	371.1 x 762 x 270 mm (14.61 x 30.00 x 10.63 in.)
		14			
20-750-MACPCCB1-CD-5K0	Z6VKUSBA000BCGGG	12	400/480V	142.0 (313.1)	371.1 x 762 x 270 mm (14.61 x 30.00 x 10.63 in.)
		15			
20-750-MACPCCB-E-2K5	T8VBE3HC0HBDHHE9	11	600V	73.0 (160.94)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
		14			
20-750-MACPCCB-F-2K5	T8VFE3HC0HBDHHE9	11	690V	73.0 (160.94)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
		14			
20-750-MACPCCB-F-3K0	T8VFF3JC0HBDHHE9	12	690V	73.0 (160.94)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
		15			

(1) Frames 13, 14, and 15 require two AC precharge circuit breakers (one per input bay).

AC Precharge Control Boards

Cat. No.	Voltage	Frame Size	System Control Power Consumption (Amps)
20-750-MACPC1-CD-F7M	400/480	7, 7L	240V AC Supply: 2.0 24V DC Supply: 1.1
20-750-MACPC1-EF-F7M	600/690	7	
20-750-MACPC1-CD	400/480	8...15	240V AC Supply: 1.2 24V DC Supply: 1.5
20-750-MACPC1-EF	600/690		

AC Precharge Time Delay Relay

Cat. No.	Voltage	Supplier Cat. No. (ABB)
20-750-MACPC-TDR	400/480/600/690	1SDA038320R1

AC Precharge Resistor Banks

Cat. No.	Voltage	Resistance (Ohm)	Frame
20-750-MACPR-CD-F7M	400/480	0.83	7, 7L
20-750-MACPR-CD-F10M		0.83	10, 13
20-750-MACPR-CD-F11M		0.2	11, 14
20-750-MACPR-CD-F12M		0.16	12, 15
20-750-MACPR-EF-F10M	600/690	1.5	10, 13
20-750-MACPR-EF-F11M		0.37	11, 14
20-750-MACPR-EF-F12M		0.3	12, 15

AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating Voltage	Device Current Rating (Amps)	Fuse Type	Quantity per Input Bay	Equivalent Frame Size ⁽¹⁾
194R-J30-1753-PBS1	400, 480, 600	600	30	Class J	1	7, 7L
					1	8
194R-J60-1753-PBS1	600		60		1	9
194R-J100-1753 ⁽²⁾	400, 480		100		1	9
	600				1	10
					2	13
194R-J200-1753 ⁽²⁾	400, 480		200		1	10
	400, 480, 600				2	13
					1	11, 12
					2	14, 15
194R-D32-1753-PBS1	690	690	32	gG	1	7
					1	8
194R-D63-1753-PBS1			63		1	9
194R-D125-1753 ⁽²⁾			125		1	10, 11
					2	13, 14
194R-D250-1753 ⁽²⁾					160	1
			2	15		

(1) Frame size is rating dependent.

(2) Operator handle and shaft not included. IP66 operator handle catalog number 194R-HM4, shaft catalog number: 194R-R7.

AC Precharge Fused Disconnect Fuses (used with Fused Disconnect FD1) (Supplier: Mersen)

Cat. No.	Voltage	Device Voltage Rating	Fuse Rating (Amps)	Device Rating (SCCR-kA)	Quantity per Fused Disconnect	Equivalent Frame Size ⁽¹⁾
AJT-30	400, 480, 600	600	30	200	3	7, 7L
					3	8
AJT-60	600		60		3	9
AJT-70	400, 480		70		3	9
AJT-80	600		80		3	10
					6	13
AJT-110	400, 480		110		3	10
					6	13
	600				3	11
					6	14
AJT-150	400, 480		150		3	11
					6	14
	600				3	12
					6	15
AJT-200	400, 480		200		3	12
					6	15
NH00GG690V32	690	690	32	80	3	7
					3	8
NH00GG69V63			63		3	9
					3	10
NH00GG69V80			80		6	13
					3	11
NH00GG69V125			125		6	14
					3	12
NH1GG69V160			160		6	15

(1) Frame size is rating dependent.

AC Precharge Path Terminal Block (TB1) (Supplier: Rockwell Automation)

Cat. No.	Voltage Rating	Device Current Rating (Amps)	Quantity per Input Bay	Equivalent Frame Size
1492-J6	400/480/600/690	50	9	7, 7L
			12	8
1492-J16	400/480	85	12	9
1492-J10	600	65	12	9
	690	57	12	9
1492-J35	400/480/600	150	8	10...12
			16	13...15
	690	125	8	10...12
			16	13...15

AC Precharge Contactor (M1) (Supplier: Rockwell Automation) ⁽¹⁾

Cat. No.	Voltage Rating	Device Current Rating (Amps)	Coil Voltage	Aux. Contactor Quantity per Input Bay	Equivalent Frame Size
100-C30T10	400/480/600/690	30	240V AC	1	7, 7L
					8
100-E65KD00	400/480/600/690	72		1	9
100-E116KD11	400/480	115		1	10
				2	13
	600/690	115		1	11
				2	14
100-E80KD00	600/690	85		1	10
				2	13
100-D180EA00 ⁽²⁾	400/480	180	24V DC	1	11, 12
				2	14, 15
100-D140EA00 ⁽²⁾	600/690	140		1	12
				2	15

(1) Not provided with the AC precharge contactor kit. Order separately.

(2) This catalog number is no longer available for purchase through your Rockwell Automation distributor. Please contact the factory for a replacement.

AC Precharge Control Board Fuse Holder (FH1) (Supplier: Bussmann)

Cat. No.	Voltage	Quantity per Input Bay	Equivalent Frame Size
CH30J3	600	1	8...12
		2	13...15
US143	690	1	8...12
		2	13...15

AC Precharge Control Board Fuses (used with Fuse Holder FH1) (Supplier: Mersen)

Cat. No.	Voltage	Device Rating Current (Amps)	Device Rating (SCCR-kA)	Quantity per Fuse Holder	Equivalent Frame Size
AJT-1	600	1	200	3	8...12
				6	13...15
FR14GG69V1	690	1	80	3	8...12
				6	13...15

AC Precharge TVSS Modules

Cat. No.	Voltage
20-750-MACP-CD-TVSS	400/480
20-750-MACP-EF-TVSS	600/690

Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC)

Vendor Cat. No.	Rockwell Automation Part Number	Voltage	Device Rating (KVA)	Control Transformer Primary (Amps)	Control Transformer Secondary (Amps)	Approx. Weight Each [kg (lb)]	Quantity per Input Bay	Equivalent Frame Size	IP Rating	
P22568	PN-490735	400	2	5.0	8.33	18.1 (40.0)	1	7, 7L	IP21	
		480	2	4.17						
P22569	PN-490738	600	2	3.33						
		690	2	2.90						
P22570	PN-228639	400	3	7.5	12.5	22.7 (50.0)	1	8		
		480	3	6.25						
P22571	PN-228640	600	3	5						
		690	3	4.35						
P22574	PN-228641	400	5	12.5	20.83	36.3 (80.0)		9		
		480	5	10.42						
P22575	PN-228642	600	5	8.33						
		690	5	7.25						
P22572	PN-228643	400	4	20	33.33	28.1 (62.0)	2	10		
		480	4	16.67						
		400	4	20			4	13		
		480	4	16.67						
P22573	PN-228644	600	4	13.33	33.33	28.1 (62.0)	2	10		
		690	4	11.59						
		600	4	13.33			4	13		
		690	4	11.59						
P22574	PN-228641	400	5	25	41.67	36.3 (80.0)	2	11		
		480	5	20.83						
		400	5	25			4	14		
		480	5	20.83						
P22575	PN-228642	600	5	16.67	41.67	36.3 (80.0)	2	11		
		690	5	14.49						
		600	5	16.67			4	14		
		690	5	14.49						
P22572	PN-228643	400	4	30	50	28.1 (62.0)	3	12		
		480	4	25						
		400	4	30			6	15		
		480	4	25						
P22573	PN-228644	600	4	20	50	28.1 (62.0)	3	12		
		690	4	17.39						
		600	4	20			6	15		
		690	4	17.39						

Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) (Continued)

Vendor Cat. No.	Rockwell Automation Part Number	Voltage	Device Rating (KVA)	Control Transformer Primary (Amps)	Control Transformer Secondary (Amps)	Approx. Weight Each [kg (lb)]	Quantity per Input Bay	Equivalent Frame Size	IP Rating	
P22568	PN-490735	400	2	5.0	8.33	18.1 (40.0)	1	7	IP54	
		480	2	4.17						
P22569	PN-490738	600	2	3.33						
		690	2	2.90						
P22572	PN-228643	400	4	10	16.67	28.1 (62.0)	1	8		
		480	4	8.33						
P22573	PN-228644	600	4	6.67						
		690	4	5.8						
P22572	PN-228643	400	4	20	33.33	28.1 (62.0)	2	9		
		480	4	16.67						
P22573	PN-228644	600	4	13.33						
		690	4	11.59						
P22572	PN-228643	400	4	30	50	28.1 (62.0)	3	10		
		480	4	25			6	13		
		400	4	30						
		480	4	25						
P22573	PN-228644	600	4	20	50	28.1 (62.0)	3	10		
		690	4	17.39			6	13		
		600	4	20						
		690	4	17.39						
P22574	PN-228641	400	5	37.5	62.5	36.3 (80.0)	3	11		
		480	5	31.25			6	14		
		400	5	37.5						
		480	5	31.25						
P22575	PN-228642	600	5	25	62.5	36.3 (80.0)	3	11		
		690	5	21.74			6	14		
		600	5	25						
		690	5	21.74						
P22574	PN-228641	400	5	50	83.33	36.3 (80.0)	4	12		
		480	5	41.67			8	15		
		400	5	50						
		480	5	41.67						
P22575	PN-228642	600	5	33.33	83.33	36.3 (80.0)	4	12		
		690	5	28.99			8	15		
		600	5	33.33						
		690	5	28.99						

Control Transformer Primary Fuse Holder (FH4...FH7)

Cat. No. (Vendor)	Voltage	Device Voltage	Quantity per Input Bay	Equivalent Frame Size	IP Rating
CH30J2 (Bussmann)	400/480/600	600	1	7, 7L, 8, 9	IP21
			2	10, 11	
			3	12	
			4	13, 14	
			6	15	
US142 (Mersen)	690	690	1	7, 8, 9	
			2	10, 11	
			3	12	
			4	13, 14	
			6	15	
CH30J2 (Bussmann)	400/480/600	600	1	7, 8	IP54
			2	9	
			3	10, 11	
			4	12	
			6	13, 14	
			8	15	
US142 (Mersen)	690	690	1	7, 8	
			2	9	
			3	10, 11	
			4	12	
			6	13, 14	
			8	15	

Control Transformer Primary Fuses (used with Fuse Holder FH4...FH7) (Supplier: Mersen)

Cat. No.	Voltage	Device Voltage Rating	Device Current Rating	Device Rating (SCCR-kA)	Quantity per Fuse Holder	Equivalent Frame Size ⁽¹⁾	IP Rating
AJT-17-1/2	400/480/600	600	17.5	200	2	7, 7L	IP21
AJT-20	400/480/600	600	20	200	2	8	
	600				6	12	
					12	15	
AJT-30	400/480/600	600	30	200	2	9	
					4	10, 11	
					8	13, 14	
	400, 480				6	12	
					12	15	
FR14GG69V10	690	690	10	120	2	7	
FR14GG69V16	690	690	16	120	2	8	
FR14GG69V20	690	690	20	120	2	9	
					4	10, 11	
					8	13, 14	
					6	12	
					12	15	

Control Transformer Primary Fuses (used with Fuse Holder FH4...FH7) (Supplier: Mersen) (Continued)

Cat. No.	Voltage	Device Voltage Rating	Device Current Rating	Device Rating (SCCR-kA)	Quantity per Fuse Holder	Equivalent Frame Size ⁽¹⁾	IP Rating
AJT-17-1/2	400/480/600	600	17.5	200	2	7	IP54
AJT-20	400/480/600	600	20	200	2	8	
	600	600	20	200	6	11	
					12	14	
					8	12	
					16	15	
AJT-30	400/480/600	600	30	200	4	9	
					6	10	
					12	13	
	400/480	600	30	200	6	11	
					12	14	
					8	12	
					16	15	
FR14GG69V10	690	690	10	120	2	7	
FR14GG69V16	690	690	16	120	2	8	
FR14GG69V20		690	20	120	4	9	
					6	10, 11	
					12	13, 14	
					8	12	
					16	15	

(1) Frame size is rating dependent.

240V Distribution Fuse Block (FH2)

Cat. No. (Vendor)	Voltage	240V Distribution Current (Amps)	Quantity per Input Bay	IP Rating	Equivalent Frame Size
1492-FB1J30 (Rockwell Automation)	400/480/600	8.33	1	IP21	7, 7L
CH30J1 (Bussmann)	400/480/600	8.33			8
		12.35			9
1492-FB1M30 (Rockwell Automation)	690	8.33			7
		8.33			8
		12.35			9
CH60J1 (Bussmann)	400/480/600	22			10
		27			11
		35.5			12
US221 (Mersen)	690	22			10
		27			11
		35.5			12
CH60J1 (Bussmann)	400/480/600	22	2	13	
		27		14	
		35.5		15	
US221 (Mersen)	690	22		13	
		27		14	
		35.5		15	

240V Distribution Fuse Block (FH2) (Continued)

Cat. No. (Vendor)	Voltage	240V Distribution Current (Amps)	Quantity per Input Bay	IP Rating	Equivalent Frame Size
1492-FB1M30 (Rockwell Automation)	400/480/600	12	1	IP54	7
CH30J1 (Bussmann)	400/480/600	12			8
1492-FB1M30 (Rockwell Automation)	690	12			7
					8
CH60J1 (Bussmann)	400/480/600	21	2		9
		33.33			10
		33.33			13
US221 (Mersen)	690	21	1		9
		33.33			10
JM60100-1CR (Bussmann)	400/480/600	41.67			11
		54			12
US221 (Mersen)	690	41.67			11
		54			12
US221 (Mersen)	690	21	2		13
		33.33			14
JM60100-1CR (Bussmann)	400/480/600	41.67			15
		54			14
US221 (Mersen)	690	41.67			15

240V Distribution Fuses (used with Fuse Block FH2) (Supplier: Mersen)

Cat. No.	Voltage	Device Rating Current (Amps)	Quantity per Fuse Block	IP Rating	Equivalent Frame Size
AJT-15	400/480/600	15	1	IP21	7, 7L
FR10AM50V16	690	16			7
AJT-15	400	16	1		8
	480/600	14			
FR10AM50V16	690	16	1		9
AJT-25	400/480/600	25			
FR10AM40V25	690	25	1		10
AJT-35	400	40			
	480/600	35	1		11
FR22AM69V40	690	40			
AJT-45	400/480/600	45	1		12
FR22AM69V50	690	50			
AJT-60	400/480/600	60	1		13
FR22AM69V63	690	63			
AJT-35	400	40	2		14
	480/600	35			
FR22AM69V40	690	40	2		15
AJT-45	400/480/600	45			
FR22AM69V50	690	50	2		
AJT-60	400/480/600	60			
FR22AM69V63	690	63			

240V Distribution Fuses (used with Fuse Block FH2) (Supplier: Mersen) (Continued)

Cat. No.	Voltage	Device Rating Current (Amps)	Quantity per Fuse Block	IP Rating	Equivalent Frame Size
AJT-15	400/480/600	15	1	IP54	7
FR10AM50V16	690	16			
AJT-20	400/480/600	20	1		8
FR10AM50V20	690	20			
AJT-35	400/480/600	35	1		9
FR22AM69V40	690	40			
AJT-60	400/480/600	60	1		10
FR22AM69V63	690	63			
AJT-70	400/480/600	70	1		11
FR22AM69V80	690	80			
AJT-70	400/480/600	70	1		12
FR22AM69V80	690	80			
AJT-60	400/480/600	60	2		13
FR22AM69V63	690	63			
AJT-70	400/480/600	70	2		14
FR22AM69V80	690	80			
AJT-70	400/480/600	70	2		15
FR22AM69V80	690	80			

240V Distribution Terminal Block (TB2) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating Current (Amps)	Quantity per Input Bay	Equivalent Frame Size
1492-J6	400/480/ 600/690	50	4	8, 9
			6	10
			12	13
	400/480/ 600/690	50	4	8
			6	9
	400/480/ 600	50	6	11
			12	14
	690	41	6	11
			12	14
1492-J10	400/480/ 600	65	6	12
			12	15
	690	57	6	12
			12	15
	400/480/ 600	65	6	10
			12	15
	690	57	6	10
			12	15
1492-J16	400/480/ 600	85	6	11
			12	14
	690	76	6	11
			12	14
1492-J35	400/480/ 600	150	8	12
			16	15
	690	125	8	12
			16	15

240V Distribution Terminal Block Jumper (used with Terminal Block TB2) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Jumper Positions	Quantity per Input Bay	Equivalent Frame Size
1492-CJJ8-2	400/480/600/690	2	2	8, 9
1492-CJJ8-3	400/480/600/690	3	2	10, 11
			4	13, 14
1492-CJJ10-3	400/480/600/690	3	2	12
			4	15
1492-CJJ6-2	400/480/600	2	2	8
1492-CJJ5-2	690	2	2	8
1492-CJJ6-3	400/480/600/690	3	2	9, 10
			4	13
1492-CJJ12-3	400/480/600/690	3	2	11
			4	14
1492-CJJ16-4	400/480/600/690	3	2	12
			4	15

240V Control Fuse Block (FH3) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Quantity	Equivalent Frame Size
1492-FB1M30	400/480/600/690	1	7...15 and 7L

240V Control Fuse (used with Fuse Block FH3)

Cat. No.	Voltage	Device Rating Current (Amps)	Quantity	Equivalent Frame Size
FNQ-2 (Bussmann)	400/480/600	2	1	7...9 and 7L
FR10AM50V2 (Mersen)	690	2	1	7... 9
FNQ-4 (Bussmann)	400/480/600	4	1	10...15
FR10AM50V4 (Mersen)	690	4	1	10...15

Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating (Watts)	Quantity	Equivalent Frame Size
1606-XLS240EC	400/480/600/690	240	1	7...15 and 7L

24V Terminal Block (TB4) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating Current (Amps)	Quantity	Equivalent Frame Size
1492-J6	400/480/600/690	50	4	7...15 and 7L

24V Auxiliary Terminal Block (TB5) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating Current (Amps)	Quantity	Equivalent Frame Size
1492-J6	400/480/600/690	50	6	7, 7L
			4	8...15

Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation)⁽¹⁾

Control Transformer					Primary Fuses (Bussman)			Primary Fuse Holder (Bussman)		Secondary Fuse (Bussman)			Secondary Fuse Holder (Bussman)	
Cat. No. (2)	Voltage	Rating (kVA)	Primary (A)	Secondary (A)	Cat. No.	Rating (V / A)	Fuse Qty. (ID)	Cat. No.	Qty.	Cat. No.	Rating (V / A)	Fuse Qty. (ID)	Cat. No.	Qty.
20-750-MN-XMFR1-C	400V	1	1.0	2.0	LP-CC-6	600 / 6	2 (FH1, FH2)	CHCC2DU	1	LP-CC-6	600 / 6	1 (FH3)	CHCC1DU	1
20-750-MN-XMFR1-D	480V		1.2											
20-750-MN-XMFR1-E	600V		0.8											
20-750-MN-XMFR1-F	690V		0.7											
20-750-MN-XMFR2-C	400V	3	7.5	12.5	LP-CC-20	600 / 20	2 (FH4, FH5)	CHCC2DU	1	LP-CC-15	600 / 15	1 (FH6)	CHCC1DU	1
20-750-MN-XMFR2-D	480V		6.25											
20-750-MN-XMFR2-E	600V		5.0											
20-750-MN-XMFR2-F	690V		4.35											

(1) Includes primary and secondary wire harnesses.

(2) A kit catalog number 20-750-MN-XMFR1-x is required for each NRS module in the system.

Control Transformer Specifications Per Ecodesign Regulation (EU) 548/2014 and its Amendments

Cat. No.	Rated Power (VA)	Primary Voltage	Secondary Voltage	Frequency (Hz)	Core	Core Weight [kg (lb)]	Conductor	Conductor Weight [kg (lb)]	Full Load Losses (Watts)	No Load Losses (Watts)	Electrical Power of any Cooling System Required at No Load (Watts)
20-750-MN-XMFR1-C	1000	415/480/600/690V	240V	50	Steel	6.70 (14.78)	Copper	1.50 (3.31)	86	40	40
20-750-MN-XMFR1-D	1000	415/480/600/690V	240V	50	Steel	6.70 (14.78)	Copper	1.50 (3.31)	86	40	40
20-750-MN-XMFR1-E	1000	415/480/600/690V	240V	50	Steel	6.70 (14.78)	Copper	1.50 (3.31)	86	40	40
20-750-MN-XMFR1-F	1000	415/480/600/690V	240V	50	Steel	6.70 (14.78)	Copper	1.50 (3.31)	86	40	40
20-750-MN-XMFR2-C	3000	400/480V	240V	50/60	Steel	21.70 (47.84)	Copper	4.80 (10.58)	183	90	90
20-750-MN-XMFR2-D	3000	400/480V	240V	50/60	Steel	21.70 (47.84)	Copper	4.80 (10.58)	183	90	90
20-750-MN-XMFR2-E	3000	400/480V	240V	50/60	Steel	21.70 (47.84)	Copper	4.60 (10.14)	183	90	90
20-750-MN-XMFR2-F	3000	400/480V	240V	50/60	Steel	21.70 (47.84)	Copper	4.60 (10.14)	183	90	90

Control Pod Assemblies⁽¹⁾

Cat. No.	Equivalent Frame Size	Product	System Control Power Consumption (Amps)	Airflow (CFM)	Compatible Firmware Revisions
20-750-MCP0D3-F7M	7, 7L ⁽²⁾	Regenerative and low harmonic (TR) drives and bus supplies	240V AC Supply: 0.0 24V DC Supply: 7.2	150	This control pod catalog number includes the main control circuit board SK-RM-MCB2-PF755, which supports firmware revisions 10.001 and later.
20-750-MCP0D4-F7M	7	Low harmonic (TL) drives			
20-750-MCP0D3-F8M	8...15	Regenerative and low harmonic (TR) drives, bus supplies, and common bus inverters	240V AC Supply: 0.0 24V DC Supply: 5.2	40	This control pod catalog number includes the main control circuit board SK-RM-MCB2-PF755, which supports firmware revision 10.001 and later.
20-750-MCP0D4-F8M	8...10	Low harmonic (TL) frame 8...10 drives			

(1) The control pod kits include the main control circuit board and fiber interface circuit board. Fiber transceiver boards must be purchased separately.

(2) The frame 7L product is not available as a bus supply.

Fiber Transceiver Board

Cat. No.	Voltage	Frame Size	Drive Quantity	Bus Supply Quantity	Common Bus Inverter Quantity	Common Bus Inverter with TAM Quantity
20-750-MFTB1-F8	400/480/600/690	7	2	2	—	—
		7L	2	—	—	—
		8	2	2	1	2
		9	3	3	2	3
		10	5	4	3	4
		11	5	4	3	4
		12	7	5	4	5
		13	7	5	4	5
		14	9	6	5	6
		15	11	7	6	7

Fiber-optic Cable Kits

The fiber optic cable kits contain a fiber optic cable and transceivers. This table provides a list of all available fiber-optic cable kits.

Catalog Number	Length [mm (in.)]
20-750-MFOC-1K3 ⁽¹⁾	1300 (51)
20-750-MFOC-1K5 ⁽²⁾	1500 (59)
20-750-MFOC-2K0	2000 (79)
20-750-MFOC-2K2	2200 (87)
20-750-MFOC-2K7	2700 (106)
20-750-MFOC-3K2	3200 (126)
20-750-MFOC-4K0	4000 (157)
20-750-MFOC-4K6	4600 (181)
20-750-MFOC-5K4	5400 (213)
20-750-MFOC-6K0	6000 (236)
20-750-MFOC-6K8	6800 (268)
20-750-MFOC-7K4	7400 (291)
20-750-MFOC-7K8	7800 (307)
20-750-MFOC-8K3	8300 (327)

(1) Included with frames 8...15 LCL filter module for connection to the adjoining converter power module.

(2) Included with frame 7 and 7L, LCL filter module for connection to the converter power module.

These tables provide the quantity of each fiber-optic kit and cable length required for each equivalent frame size and product.

Frame 7 Regenerative and Low Harmonic Drive

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MFOC-2K0	20-750-MFOC-2K2
	2000 (79)	2200 (87)
AC Precharge Control Board to Control Pod (ACPO)	—	1
Line Side Converter Power Module to Control Pod (LO)	1	—
Motor Side Inverter Power Module to Control Pod (MO)	1	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	1

Frame 7 Regenerative Bus Supply

Connection	Cat. No. / Length in mm (in.)	
	20-750-MFOC-2K0	20-750-MFOC-2K2
	2000 (79)	2200 (87)
AC Precharge Control Board to Control Pod (ACPO)	—	1
Line Side Converter Power Module to Control Pod (LO)	1	—

Frame 7L Regenerative Liquid Cooled Drive

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MFOC-2K0	20-750-MFOC-2K2
	2000 (79)	2200 (87)
AC Precharge Control Board to Control Pod (ACPO)	—	1
Line Side Converter Power Module to Control Pod (LO)	1	—
Motor Side Inverter Power Module to Control Pod (MO)	1	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	1

Frame 8 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)		
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2
	1500 (59)	2200 (87)	3200 (126)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—
Power Module to Control Pod (LO, MO)	—	2	—
Torque Accuracy Module to Control Pod (TAM -Optional)	—	—	1

Frame 8 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MFOC-1K5	20-750-MFOC-3K2
	1500 (59)	3200 (126)
AC Precharge Control Board to Control Pod (ACPO)	1	—
Power Module to Control Pod (LO, MO)	—	2
Torque Accuracy Module to Control Pod (TAM - Optional)	—	1

Frame 8 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MFOC-1K5	20-750-MFOC-2K0
	1500 (59)	2000 (79)
AC Precharge Control Board to Control Pod (ACPO)	1	—
Power Module to Control Pod (LO)	—	1

Frame 8 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MFOC-1K5	20-750-MFOC-3K2
	1500 (59)	3200 (126)
AC Precharge Control Board to Control Pod (ACPO)	1	—
Power Module to Control Pod (LO)	—	1

Frame 8 Common Bus Inverter

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MFOC-2K2	20-750-MFOC-3K2
	2200 (87)	3200 (126)
Power Module to First Control Pod - Upper Location (M0)	1	—
Power Module to Second Control Pod - Lower Location (M0)	—	1
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	1	—
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	1

Frame 9 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)			
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	1500 (59)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—
Power Module to Control Pod (L0, L1, M0, M1)	—	1	3	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	1

Frame 9 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)			
	20-750-MFOC-1K5	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4
	1500 (59)	3200 (126)	4000 (157)	5400 (213)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—
Power Module to Control Pod (L0, L1, M0, M1)	—	1	2	1
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	1	—

Frame 9 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)		
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2
	1500 (59)	2200 (87)	3200 (126)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—
Power Module to Control Pod (L0, L1)	—	1	1

Frame 9 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)		
	20-750-MFOC-1K5	20-750-MFOC-3K2	20-750-MFOC-4K0
	1500 (59)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—
Power Module to Control Pod (L0, L1)	—	1	1

Frame 9 Common Bus Inverter

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MF0C-2K2	20-750-MF0C-3K2
	2200 (87)	3200 (126)
Power Module to First Control Pod - Upper Location (M0, M1)	2	—
Power Module to Second Control Pod - Lower Location (M0, M1)	—	2
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	—	1
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	1

Frame 10 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)				
	20-750-MF0C-1K5	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4
	1500 (59)	2200 (87)	3200 (126)	4000 (157)	5400 (213)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—
Power Module to Control Pod (L0...L2, M0...M2)	—	1	1	3	1
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	1

Frame 10 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)					
	20-750-MF0C-1K5	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—
Power Module to Control Pod (L0...L2, M0...M2)	—	1	1	2	2	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	1

Frame 10 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)			
	20-750-MF0C-1K5	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0
	1500 (59)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—
Power Module to Control Pod (L0...L2)	—	1	1	1

Frame 10 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)			
	20-750-MF0C-1K5	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-3K2
	1500 (59)	2000 (79)	2200 (87)	3200 (126)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—
Power Module to Control Pod (L0...L2)	—	1	1	1

Frame 10 Common Bus Inverter

Connection	Cat. No. / Cable Length in mm (in.)		
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	2200 (87)	3200 (126)	4000 (157)
Power Module to First Control Pod - Upper Location (M0...M2)	3	—	—
Power Module to Second Control Pod - Lower Location (M0...M2)	—	2	1
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	—	1	—
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	1	—

Frame 11 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)					
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0
	1500 (59)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—
Power Module to Control Pod (L0...L3, M0...M3)	—	1	1	4	2	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	1

Frame 11 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-1K5	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—
Power Module to Control Pod (L0...L3, M0...M3)	—	1	1	1	3	2	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	—	1

Frame 11 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)			
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	1500 (59)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—
Power Module to Control Pod (L0...L3)	—	1	1	2

Frame 11 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MFOC-1K5	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—
Power Module to Control Pod (L0...L3)	—	1	1	1	1

Frame 11 Common Bus Inverter

Connection	Cat. No. / Cable Length Usage, mm (in.)		
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	2200 (87)	3200 (126)	4000 (157)
Power Module to First Control Pod - Upper Location (MO...M3)	2	2	—
Power Module to Second Control Pod - Lower Location (MO...M3)	—	2	2
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	—	—	1
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	—	1

Frame 12 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8
	1500 (59)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—
Power Module to Control Pod (LO...L4, MO...M4)	—	1	1	2	3	3	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	—	1

Frame 12 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-1K5	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K8
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6800 (268)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—
Power Module to Control Pod (LO...L4, MO...M4)	—	1	1	1	2	5	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	—	1

Frame 12 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4
	1500 (59)	2200 (87)	3200 (126)	4000 (157)	5400 (213)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—
Power Module to Control Pod (LO...L4)	—	1	1	2	1

Frame 12 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MFOC-1K5	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—
Power Module to Control Pod (LO...L4)	—	1	1	1	2

Frame 12 Common Bus Inverter

Connection	Cat. No. / Cable Length Usage, mm (in.)		
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	2200 (87)	3200 (126)	4000 (157)
Power Module to First Control Pod - Upper Location (MO...M4)	3	2	—
Power Module to Second Control Pod - Lower Location (MO...M4)	—	2	3
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	—	—	1
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	—	1

Frame 13 Regenerative and Low Harmonic Drive, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)								
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—	—	—
Power Module to Control Pod (LO...L5, MO...M5)	—	1	—	1	3	2	3	1	1

Frame 13 Regenerative and Low Harmonic Drive, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—	—
Power Module to Control Pod (LO...L5, MO...M5)	—	1	1	3	3	1	3

Frame 13 Regenerative and Low Harmonic Bus Supply, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—
Power Module to Control Pod (LO...L5)	—	1	—	1	1	2	1

Frame 13 Regenerative and Low Harmonic Bus Supply, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)					
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—
Power Module to Control Pod (LO...L5)	—	1	1	1	2	1

Frame 13 Common Bus Inverter, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)			
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6
	2200 (87)	3200 (126)	4000 (157)	4600 (181)
Power Module to Control Pod (M0...M5)	3	—	1	2
Torque Accuracy Module to Control Pod (TAM - Optional)	—	1	—	—

Frame 14 Regenerative and Low Harmonic Drive, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)								
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—	—	—
Power Module to Control Pod (L0...L7, M0...M7)	—	1	—	1	4	2	4	2	2

Frame 14 Regenerative and Low Harmonic Drive, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)								
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8	20-750-MFOC-7K4	20-750-MFOC-7K8
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)	7400 (291)	7800 (307)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—	—	—	—
Power Module to Control Pod (L0...L7, M0...M7)	—	1	1	4	4	1	3	1	1

Frame 14 Regenerative and Low Harmonic Bus Supply, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—
Power Module to Control Pod (L0...L7)	—	1	—	1	2	2	2

Frame 14 Regenerative and Low Harmonic Bus Supply, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—	—
Power Module to Control Pod (L0...L7)	—	1	1	2	2	1	1

Frame 14 Common Bus Inverter, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4
	2200 (87)	3200 (126)	4000 (157)	4600 (181)	5400 (213)
Power Module to Control Pod (M0...M7)	2	2	—	2	2
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	1	—	—

Frame 15 Regenerative and Low Harmonic Drive, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)									
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8	20-750-MFOC-7K4
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)	6000 (236)	6800 (268)	7400 (291)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (TAM)	—	—	1	—	—	—	—	—	—	—
Power Module to Control Pod (L0...L9, M0...M9)	—	1	—	1	2	2	5	4	2	3

Frame 15 Regenerative and Low Harmonic Drive, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)									
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8	20-750-MFOC-7K4	20-750-MFOC-7K8	20-750-MFOC-8K3
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)	7400 (291)	7800 (307)	8300 (327)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—	—	—	—	—
Power Module to Control Pod (L0...L9, M0...M9)	—	1	1	2	5	4	2	2	1	2

Frame 15 Regenerative and Low Harmonic Bus Supply, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)							
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4	20-750-MFOC-6K0
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)	6000 (236)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—	—
Power Module to Control Pod (L0...L9)	—	1	—	1	2	2	3	1

Frame 15 Regenerative and Low Harmonic Bus Supply, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)							
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACPO)	1	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—	—
Power Module to Control Pod (L0...L9)	—	1	—	1	2	3	1	2

Frame 15 Common Bus Inverter, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4
	2200 (87)	3200 (126)	4000 (157)	4600 (181)	5400 (213)
Power Module to Control Pod (M0...M9)	3	2	—	2	3
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	1	—	—

DC Precharge Modules

No Filtering	With DC Common Mode Core	Voltage	Amps (Normal Duty)	Fuse Rating Amps/leg (1/leg)	Max Weight kg (lb)	System Control Power Consumption (Amps)
20-750-MDCP1-CD-F8M	20-750-MDCP2-CD-F8M	400	887	1400 (170M6467)	41 (90)	240V AC Supply: 0.6 24V DC Supply: 0.5
		480	817			
20-750-MDCP1-EF-F8M	20-750-MDCP2-EF-F8M	600	602	1100 (170M6499)	With packaging: 44 (97)	24V DC Supply: 0.5
		690	556			

DC Link/Fuse Assemblies (Frames 7...15 and 7L)

Voltage	Amps (Normal Duty)	Cat. No.	Voltage	Amps (Normal Duty)	Cat. No.
400	887	20-750-MDCL1-CD-F8M	400	798	20-750-MDCL2-CD-F8M
480	817		480	735	20-750-MDCL3-CD-F8M ⁽¹⁾ 20-750-MDCL1-CD-F7M 20-750-MDCL1-CD-F7L
600	602	20-750-MDCL1-EF-F8M	600	542	20-750-MDCL2-EF-F8M
690	556		690	501	20-750-MDCL3-EF-F8M ⁽¹⁾ 20-750-MDCL1-EF-F7M

(1) For right-to-left orientation.

DC Link/Fuse Modules (NRS)

Voltage	Single Density Power Module		Dual Density Power Module	
	Amps (Normal Duty)	Cat. No.	Amps (Normal Duty)	Cat. No.
400	887	20-750-MN-DCLINK1-CD	1685	20-750-MN-DCLINK2-CD
480	817		1507	
600	602	20-750-MN-DCLINK1-EF	1082	20-750-MN-DCLINK2-EF
690	602		1082	

DC Common Mode Core

Cat. No.	Use With	Equivalent Frame Size
20-750-MDCCM1-F8M	DC precharge modules	8...12

DC Bus Conditioner

Cat. No.	Input Voltage	Amps	Equivalent Frame Size	NRS System Configuration
20-750-MDCBUS-COND-F7M ⁽¹⁾	1000V DC	70	7	—
20-750-MBSCD-DB (Marine discharge circuit board) ⁽²⁾	1000V DC	—	7	—
20-750-MDCBUS-COND ⁽³⁾	1000V DC	100	8...15	All
20-750-MDCBUS1-COND (for marine applications) ⁽²⁾	1000V DC	100	8...15	All

(1) This kit is included in all frame 7 power modules and must be configured for the applicable ground scheme. See the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication [750-IN101](#), for details on jumper configuration.

(2) Suitable for use on a high-resistance ground or ungrounded distribution system in a marine application that requires low leakage current to ground (for example, ship or marine vessel).

(3) This kit contains internal fusing that limits fault current to 100 A (Mersen semiconductor protection fuse, catalog number A100P100-4TA).

Recommended DC Bus Conditioner Modules

Ground Scheme	Input Voltage Class	Frame Size	Quantity Required	Installation Location	NRS System Configuration	NRS System Quantity Required	NRS Installation Location
Solid Ground	400/480 600/690	7	1 or 2	One DC bus conditioner is included in each power module.	—	—	—
		8	1	Above the first line side converter.	1X	1	Above the first module.
		9			2X		
		10			1X+2X		
		11			2X+2X		
		12			2X+2X+1X		
		13	2	Above the first line side converter in the left-to-right orientation and above the first line side converter in the right-to-left orientation.	2X+2X+2X or 2 (2X+1X)	1 or 2	Above the first module in the left-to-right orientation and above the first module in the right-to-left orientation.
		14			2 (2X+2X)	2	
		15			2 (2X+2X+1X)	2	
		—	—	2 (2X+2X+2X)			
High-Resistance Ground, Ungrounded (Marine), or Ungrounded with Zig-Zag Transformer to Convert to High-Resistance Ground	400/480 600/690	7	1 or 2	One DC bus conditioner is included in each power module. Install one marine discharge board for marine applications only.	—	—	—
		8	2	One above the line side converter and one above motor side inverter.	1X	1	Above the module.
		9	2	Above each line side converter.	2X	1	Above each module.
		10	3		1X+2X	2	
		11	4		2X+2X	2	
		12	5		2X+2X+1X	3	
		13	6		2X+2X+2X or 2 (2X+1X)	3 or 4	
		14	8		2 (2X+2X)	4	
		15	10		2 (2X+2X+1X)	6	
		—	—	—	2 (2X+2X+2X)		

Torque Accuracy Modules (TAM)

Cat. No.	Voltage	PowerFlex 755TL Drive Frame Sizes	PowerFlex 755TR Drive Frame Sizes	PowerFlex 755TM Common Bus Inverter Frame Sizes	System Control Power Consumption (Amps)
20-750-MTAM1-CD	400/480	7...10	7...12 and 7L	8...15	240V AC Supply: 0.2 24V DC Supply: 0.2
20-750-MTAM1-EF	600/690	7...10	7...12	8...15	

EMC C2 Filter Kits ⁽¹⁾

Cat. No.	Kit Description	Required for Equivalent Frame Size	Voltage Rating	Product Rating (ND) (Amps) ⁽²⁾
20-750-MEMCC2-IPBB ⁽³⁾	EMC C2 Filter Input Bus Bars	8...10	600/690	237...2156
20-750-MEMCC2-F8910 ⁽⁴⁾	EMC C2 Filter	8...10	600/690	237...2156
20-750-MEMCC2-F8 ⁽⁵⁾	EMC C2 Filter Output Bus Bars	8	600/690	237...770
20-750-MEMCC2-F9 ⁽⁶⁾	EMC C2 Filter Output Bus Bars	9	600/690	640...1685
20-750-MEMCC2-F10 ⁽⁷⁾	EMC C2 Filter Output Bus Bars	10	600/690	1045...2156

(1) The EMC C2 filter kits are used for PowerFlex 755T product installations that require compliance with CE EN61800-3 Category C2 for conducted emissions only. The EMC C2 filter kits cannot be used for ungrounded/high resistance ground or marine ungrounded/high resistance ground applications. The EMC C2 filter kits must be installed in the EMC C2 wire bay (see [PowerFlex 755TM EMC C2 Filter Wire Bay and Required Accessories \(Supplier: Rittal and Rockwell Automation\) on page 155](#)). See the PowerFlex 755TM EMC C2 Filter Kits Installation Instructions, publication [750-IN101](#), for details.

(2) See [LCL Filter and Power Module Selection on page 115](#) for catalog numbers applicable to the equivalent frame size.

(3) This kit includes a ground bus bar that must be installed in the wire bay to meet EMC C2 compliance for conducted emissions.

(4) This kit includes three ferrite cores and the hardware required for connecting to the EMC C2 bus bar kits included in this table.

(5) To meet EMC C2 compliance for conducted emissions, the plastic airflow baffle and ground cable (included with this kit) and the frame 8 AC input bus bar assembly (20-750-MCNCTAC-F8) must be installed with this kit.

(6) To meet EMC C2 compliance for conducted emissions, the plastic airflow baffle and ground bus splice (included with this kit) and the frame 9 AC input bus bar assembly (20-750-MCNCTAC-F9) must be installed with this kit.

(7) To meet EMC C2 compliance for conducted emissions, the ground bus splice (included with this kit) and the frame 10...12, 1000 mm wide AC input bus bars (20-750-MACBUS10-3K0 or 20-750-MACBUS10-4K7) must be installed with this kit.

Bus Bars and Bus Bar Assemblies

Frame 8...15 AC Input Bus Bars

Cat. No.	Voltage	Cabinet Width [mm (in.)]	Cabinet Type	Material	Thickness mm (in.)	Weight [kg (lb)]	Equivalent Frame Size
20-750-MCNCTAC-F8	600/690	400 (16)	Input bay	Aluminum	12.7 (0.5)	< 22.7 (50)	8
20-750-MCNCTAC-F9	600/690	600 (24)	Input bay	Aluminum	12.7 (0.5)	< 22.7 (50)	9
20-750-MACBUS6-3K0	600/690	600 (24)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	10, 13
20-750-MACBUS6-4K7	600/690	600 (24)	Power bay	Copper	27 (1.1)	37.8 (84)	10, 12
20-750-MACBUS8-3K0	600/690	800 (31)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	9, 10, 13
20-750-MACBUS8-4K7	600/690	800 (31)	Power bay	Copper	27 (1.1)	57.2 (127)	11, 12, 14, 15
20-750-MACBUS10-3K0	600/690	1000 (39)	Input bay	Aluminum	27 (1.1)	< 22.7 (50)	10, 13
20-750-MACBUS10-4K7	600/690	1000 (39)	Input bay	Copper	27 (1.1)	65.7 (146)	11, 12, 14, 15

Frame 8...15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay)

Cat. No.	Voltage	Cabinet Width [mm (in.)]	Cabinet Type	Material	Thickness [mm (in.)]	Weight [kg (lb)]	Equivalent Frame Size
20-750-MTESPL2-F8M	600/690	—	Wire bay, top cable exit, right-to-left orientation	Aluminum	6 (0.2)	< 22.7 (50)	8
20-750-MTEBUS2-3K0	600/690	400 (16)	Wire bay	Aluminum	27 (1.1)	< 22.7 (50)	8...10, 13
20-750-MTEBUS1-4K7	600/690	800 (31)	Wire bay	Copper	37 (1.5)	52.7 (117)	11, 12, 14, 15

L-Bracket Bus Bar Terminal

Cat. No.	Material	Quantity per Equivalent Frame Size							
		8	9	10	11	12	13 ⁽¹⁾	14 ⁽¹⁾	15 ⁽¹⁾
20-750-MLBRKT-F8M ⁽²⁾	Aluminum	—	6 (2 per phase)	6 (2 per phase)	12 (4 per phase)	12 (4 per phase)	12 (2 per phase)	24 (4 per phase)	24 (4 per phase)

(1) Frames 13, 14, and 15 drives and bus supplies require two wire entry bays and two sets of AC input bus bars. The same number of L-brackets must be installed in each entry wire bay and on each input phase.

(2) Up to four lugs can be attached to a single L-bracket:

Frame 8...15 and NRS AC Bus Bar Splices

Cat. No.	Voltage	Cabinet Type	Material	Thickness [mm (in.)]	Equivalent Frame Size	Used for NRS
20-750-MACSPL1-F10M	600/690	Inverter power bay to inverter power bay	Aluminum	27 (1.1)	10, 13	—
20-750-MACSPL1-F11M	600/690	Inverter power bay to inverter power bay	Copper	37 (1.5)	10...15	2X+2X, 2X+2X+1X, 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X)
20-750-MACSPL2-F8M	600/690	Input bay to power bay	Aluminum	9.5 (0.4)	8	—
20-750-MACSPL2-F9M	600/690	Input bay to power bay	Aluminum	500 MCM ⁽¹⁾	9	—
20-750-MACSPL2-3K0	600/690	Entry wire bay to input bay or NRS power bay, or input bay to converter power bay	Aluminum	27 (1.1)	10, 13	1X, 2X, 1X+2X, 2X+2X+2X, 2 (2X+1X)
20-750-MACSPL2-4K7	600/690	Entry wire bay to input bay or NRS power bay, or input bay to converter power bay	Copper	37 (1.5)	10...15	2X+2X, 2X+2X+1X, 2X+2X+2X, 2 (2Xx+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X)
20-750-MACSPL3-F8M	600/690	Input bay to power bay, right-to-left orientation	Aluminum	9.5 (0.4)	8	—
20-750-MACSPL3-F9M	600/690	Input bay to power bay, right-to-left orientation	Aluminum	500 MCM ⁽¹⁾	9	—
20-750-MACSPL3-3K0	600/690	NRS power bay to NRS power bay	Aluminum	27 (1.1)	—	1X, 2X, 1X+2X, 2 (1X+2X)
20-750-MTESPL1-F8M	600/690	Power bay to exit wire bay	Aluminum	6 (0.2)	8	—
20-750-MTESPL2-F10M	600/690	Power bay to exit wire bay	Aluminum	25 (1.0)	9, 10, 13	1X, 2X, 1X+2X, 2 (1X+2X)
20-750-MTESPL3-F12M	600/690	Power bay to exit wire bay	Copper	25 (1.0)	10...15	2X+2X, 2X+2X+1X, 2X+2X+2X, 2 (2Xx+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X)

(1) This measurement reflects a wire size.

Frame 10...15 AC Precharge Circuit Breaker Bus Bars

Cat. No.	Voltage	Circuit Breaker Rating Amps	Cabinet Type	Material	Thickness [mm (in.)]	Weight [kg (lb)]	Equivalent Frame Size
20-750-MCBBUS1-2K0	600/690	2000	Input bay	Copper	27 (1.1)	< 22.7 (50)	10, 13
20-750-MCBBUS1-2K5	600/690	2500	Input bay	Copper	27 (1.1)	73 (160)	11, 14
20-750-MCBBUS1-3K0	400/480/600	3000	Input bay	Copper	27 (1.1)	< 22.7 (50)	10, 12, 13, 15
20-750-MCBBUS2-5K0	400/480	5000	Input bay	Copper	27 (1.1)	152 (335)	11, 12, 14, 15
20-750-MCBBUS2-3K0	690	3000	Input bay	Copper	27 (1.1)	61 (140)	12, 15

Frame 8...15 AC Input Link Bus Bar and Fuse Assemblies

Cat. No.	Voltage	Cabinet Type	Material	Thickness [mm (in.)]	Fuse		Equivalent Frame Size
					Rating	No. (Qty. 3)	
20-750-MACL1-F8M	400/480	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC/U.L.), 900 A	170M6463	8
	600/690						
20-750-MACL1-F9M	400/480	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC), 1800 A	170M6470	9
20-750-MACL2-F8M	400/480	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC/U.L.), 1250 A	170M6466	10, 12
	600/690						9
20-750-MACL2-F9M	400/480	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC), 2000 A	170M6471	9...15
20-750-MACL3-F8M	600/690	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC), 700 A	170M6461	9
20-750-MACL3-F9M	600/690	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC/U.L.), 1600 A	170M6469	9...15

AC Common Mode Core

Cat. No.	Use With	Equivalent Frame Size
20-750-MACCM1-F7M ⁽¹⁾	Circuit breaker input / output	7
20-750-MACCM1-F8M	LCL filter modules	8...15

(1) Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information.

Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars

Cat. No.	Voltage	Cabinet Width [mm (in.)]	Cabinet Type	With Back Panel	Material	Weight [kg (lb)]	Equivalent Frame Size (n) or Compatible NRS Modules (nX)	Module
20-750-MDCREC1-F8M	600/690	-	Power bay	Yes	Aluminum	< 22.7 (50)	8...15	DC precharge
20-750-MDCREC1-F8MC	600/690	-	Power bay	Yes	Copper	< 22.7 (50)	8...15	DC precharge
20-750-MREC1-F8M ⁽¹⁾	600/690	-	Power bay	No	Aluminum	< 22.7 (50)	8...15	LCL filter or power module
20-750-MREC1-F8MC ⁽¹⁾	600/690	-	Power bay	No	Copper	< 22.7 (50)	8...15	LCL filter or power module
20-750-MIR1-F8M	600/690	400 (16)	Power bay	Yes	Aluminum	< 22.7 (50)	8	Motor-side inverter (single)
20-750-MIR1-F9M ⁽²⁾	600/690	600 (24)	Power bay	Yes	Aluminum	< 22.7 (50)	9, 11, 12	Motor-side inverters (two in parallel)
20-750-MIR1-F10M ⁽²⁾	600/690	800 (31)	Power bay	Yes	Aluminum	30 (66)	10, 12	Motor-side inverters (three in parallel)
20-750-MIR2-F9M ⁽³⁾	600/690	600 (24)	Power bay	Yes	Copper	29 (65)	9, 11, 12, 14, 15	Motor-side inverters (two in parallel)
20-750-MIR2-F10M ⁽⁴⁾	600/690	800 (31)	Power bay	Yes	Copper	43 (96)	10, 12, 13, 15	Motor-side inverters (three in parallel)
20-750-MACR1-F8M	600/690	600 (24)	Power bay	Yes	Aluminum	28 (60)	8, 10, 12, 13, 15	LCL filter and one line-side converter
20-750-MACR2-F8M ⁽⁵⁾	600/690	600 (24)	Power bay	Yes	Aluminum	28 (60)	8, 10, 12, 13, 15	LCL filter and one line-side converter
20-750-MACR1-F9M	600/690	800 (31)	Power bay	Yes	Aluminum	39 (86)	9...15	LCL filter and two line-side converters
20-750-MADR1-F8M	600/690	800 (31)	Power bay	Yes	Aluminum	32 (70)	8, 10, 12	LCL filter and two line-side inverters
20-750-MADR2-F8M ⁽⁵⁾	600/690	800 (31)	Power bay	Yes	Aluminum	32 (70)	8	Motor-side inverter, line-side converter, LCL filter
20-750-MNIR1 ⁽⁶⁾	600/690	400 (16)	Power bay	Yes	Aluminum ⁽⁷⁾	20 (44)	1X, 2X, 1X+2X	Non-regenerative converter
20-750-MNIR2 ⁽⁶⁾	600/690	400 (16)	Power bay	Yes	Copper	25 (55)	2X, 1X+2X, 2X+2X, 2X+2X+1X, 2X+2X+2X, 2 (2X+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X)	Non-regenerative converter

(1) This kit is a stab receptacle sub-assembly. Purchase the kit (one per power or LCL filter module) instead of the back panel with stab receptacles, or to replace a subassembly on a back panel.

(2) Use this kit only when an exit wire bay is not used.

(3) This catalog number must be used for frames 9, 11, 12, 14, and 15 when an exit wire bay is used.

(4) This catalog number must be used for frames 10, 12, 13, and 15 when an exit wire bay is used.

(5) For right-to-left orientation.

(6) For use with NRS modules only.

(7) The slotted bus bars contained in this kit are aluminum. The phase connecting bus bars are copper.

Frame 8...15 and NRS System DC Bus Bars

Cat. No.	Cabinet Width [mm (in.)]	Cabinet Type	Material	Thickness [mm (in.)]	Weight [kg (lb)]	Amps ⁽¹⁾	Equivalent Frame Size ⁽²⁾	Compatible NRS Modules
20-750-MDCBUS3-3K0	300 (12)	Control bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	8...12	—
20-750-MDCBUS3-4K7	300 (12)	Control bay	Copper	37 (1.5)	< 22.7 (50)	4700	8...15	—
20-750-MDCBUS4-3K0	400 (16)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	8	1X
20-750-MDCBUS4-4K7	400 (16)	Power bay	Copper	37 (1.5)	< 22.7 (50)	4700	8	1X or 2X
20-750-MDCBUS6-3K0	600 (24)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	9, 10	—
20-750-MDCBUS6-4K7	600 (24)	Power bay	Copper	37 (1.5)	25.2 (56)	4700	10...15	—
20-750-MDCBUS8-3K0	800 (31)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	9, 10	—
20-750-MDCBUS8-4K7	800 (31)	Power bay	Copper	37 (1.5)	39.5 (87)	4700	10...15	—
20-750-MDCBUS10-3K0	1000 (39)	Input bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	10	—
20-750-MDCBUS10-4K7	1000 (39)	Input bay	Copper	37 (1.5)	47.7 (106)	4700	10...15	—

(1) See [Extruded DC Bus Derating Guidelines on page 179](#) for maximum amp rating and derating information.(2) For frames 8...10 use the aluminum bus bar for standard 3000 A.
For frames 8...10 use the copper bus bar for optional 4700 A.
For frames 11...15 use the copper bus bar for all installations.

Frame 8...15 and NRS System DC Bus Bar Splice Kits

Cat. No.	Material	Thickness [mm (in.)]	Amps	Equivalent Frame Size	Compatible NRS Modules
20-750-MDCSPL1-3K0	Aluminum	25 (1.0)	3000	8...10, 13	1X
20-750-MDCSPL1-4K7	Copper	25 (1.0)	4700	10...15	1X or 2X

Frame 7 and 7L Bus Bar Kits

Cat. No.	Voltage	Cabinet Width [mm (in.)]	Cabinet Type	Material	Thickness [mm (in.)]	Equivalent Frame Size
AC Input/Output Bus Bar Terminal Kit						
20-750-MACIOT-F7M	400/480/600/690	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)	7
20-750-MACIOT-F7L						7L
AC Input Flex Bus Bar Kit						
20-750-MACINP-F7	400/480/600/690	800 (31)	Power Bay	Flex Copper	1/0 AWG ⁽¹⁾	7, 7L
				Solid Aluminum	9.53 (0.375)	7, 7L
Circuit Breaker AC Output Bus Bar Kit						
20-750-MPCCB-F7M	400/480/600/690	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)	7, 7L
AC Output Flex Bus Bar and Fuse Assembly Kits						
20-750-MACL2-CD-F7M	400/480	800 (31)	Power Bay	Copper	1/0 AWG ⁽¹⁾	7
20-750-MACL2-CD-F7L						7L
20-750-MACL2-EF-F7M	600/690					7
AC Motor Side Output Flex Bus Kit						
20-750-MSOF-F7	400/480/600/690	800 (31)	Power Bay	Flex Copper	1/0 AWG ⁽¹⁾	7
				Solid Aluminum	9.53 (0.375)	7
20-750-MSOF-F7L				Flex Copper	1/0 AWG ⁽¹⁾	7L
				Solid Aluminum	9.53 (0.375)	7L
DC Output Bus Bar Terminal Kit						
20-750-MDCOT-F7M	DC	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)	7
DC Output Flex Bus Kit (Drive)						
20-750-MDRFB-F7M	DC	800 (31)	Power Bay	Copper	1/0 AWG ⁽¹⁾	7
DC Output Flex Bus Bar and Fuse Assembly Kits (Bus Supply)						
20-750-MDCFB-CD-F7M	400/480	800 (31)	Power Bay	Flex Copper	1/0 AWG ⁽¹⁾	7
20-750-MDCFB-EF-F7M	600/690	800 (31)	Power Bay	Solid Aluminum	1/0 AWG ⁽¹⁾	7

(1) This measurement reflects a wire size.

Frame 7 and 7L AC Output Bus Bar and Fuse Assembly Kit Fuses

Bus Bar Assembly and Fuse Kit Cat. No.	LCL Filter	Voltage Rating	Bussman Fuse Number	Fuse Rating	Fuse Qty.	Equivalent Frame Size
20-750-MACL2-CD-F7M	20-750-ML4-C585D617	400/480V	170M6463	690/700V (IEC/U.L.), 900 A ⁽¹⁾	3	7
20-750-MACL2-CD-F7L	20-750-ML4-C585D617	400/480V	170M6464	690/700V (IEC/U.L.), 1000 A ⁽¹⁾	3	7L
20-750-MACL2-EF-F7M	20-750-ML4-E395F370	600/690V	170M6461	690/700V (IEC/U.L.), 700 A ⁽¹⁾	3	7

(1) Bussman Square Body - Flush End Contact -BKN/- Type K Indicator.

Frame 7 DC Output Flex Bus Bar and Fuse Assembly Kit Fuses

Bus Bar Assembly and Fuse Kit Cat. No.	Voltage Rating	Bussman Fuse Number	Fuse Rating	Fuse Qty.
20-750-MDCFB-CD-F7M	400/480V	170M6467	690/700V (IEC/U.L.), 1400 A ⁽¹⁾	2
20-750-MDCFB-EF-F7M	600/690V	170M6499	690/700V (IEC/U.L.), 1100 A ⁽¹⁾	2

(1) Bussman Square Body - Flush End Contact -BKN/- Type K Indicator.

Ground Bus Bar Splice

Cat. No.	Material	Thickness mm (in.)	Equivalent Frame Size	Used with NRS
20-750-MGNDSP1	Aluminum	9.5 (0.37)	8...15	Yes

Control Bus Assemblies

Cat. No.	Voltage	Amps	Cabinet Width [mm (in.)]	Cabinet Type	Equivalent Frame Size	Compatible with NRS Systems
20-750-MCBUS1-CB-F8M	240	100	300 (12)	Control bay	8...15	—
20-750-MCBUS1-IB-F8M	240	100	400 (16)	Input bay/Wire bay	8...10	Yes
20-750-MCBUS1-PB-F8M	240	100	400 (16)	Power bay	8	Yes
20-750-MCBUS1-IB-F9M	240	100	600 (24)	Input bay	9	—
20-750-MCBUS1-PB-F9M	240	100	600 (24)	Power bay	9...15	—
20-750-MCBUS1-PB-F10M	240	100	800 (31)	Power bay/Wire bay	8...15	—
20-750-MCBUS1-IB-F10M	240	100	1000 (39)	Input bay	10...15	—

Control Bus Connectors

Cat. No.	Voltage	Amps	Conductor Cross Section	Terminal Specifications	Equivalent Frame Size	Compatible with NRS Systems
20-750-MCTRLBUS-CONN1 ⁽¹⁾	240	10 per terminal ⁽²⁾	(3)	Stud: M6	8...15 ⁽⁴⁾	Yes
20-750-MCTRLBUS-CONN2	240	65		Pad Area: 19 mm ²	10...15 ⁽⁵⁾	—

(1) Up to five 20-750-MCTRLBUS-CONN1 connectors can be used in parallel on the control bus assembly to reach a maximum of 100 amps per circuit (240V AC, 240/120V AC, or 24V DC).

(2) The connector includes six poles with two terminals per pole.

(3) Size according to US NEC or applicable national or local codes.

(4) Quantities are determined by your configuration:

1 per power module (for the fan), when a DC precharge module is not present

1 per LCL filter module (for the fan)

1 per DC precharge module, when present

1 per IP54 rated, 400 mm power bay (for the roof fan), when a DC precharge module is not present

1 per IP54 rated, 600 mm power bay (for the roof fan), when a DC precharge module is not present

2 per IP54 rated, 800 mm power bay (for the roof fans), when a DC precharge module is not present

1 per frame 8 and 9 input bay

1 per wire entry/exit wiring bay (for the door fan)

1 per Torque Accuracy Module (TAM), when present

(5) 1 per 1000 mm wide AC input bay

Control Bus Splice

Cat. No.	Voltage	Amps	Equivalent Frame Size	Compatible with NRS Systems
20-750-MCTRLBUS-SPL	240	100	8...15	Yes

Cabinet-Level Kits

The Rittal TS8 enclosures that are listed in these tables are the only enclosures recommended for use with PowerFlex 755TM IP00 / Open Type kits. The tables provide the overall enclosure dimensions and vendor part number. The enclosures listed in these tables are designed to meet EN61800-3 Category C3 EMC requirements. Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information. The PowerFlex 750TM EMC C2 filter wire bay (on page 155) is used only with the EMC C2 filter kits used for PowerFlex 755T product installations that require compliance with CE EN61800-3 Category C2 for conducted emissions only. See [EMC C2 Filter Kits on page 149](#) for more information.

These enclosures contain the roof and floor panels, side rails, and door accessory and ventilation openings, unless noted otherwise. Some enclosures include the vents and fans that are required to meet PowerFlex 755TM product specifications (as noted in the table footnotes).

Use the joining hardware kit, catalog number 20-750-MEXTBAY1, to join all Rittal TS8 enclosures. Kits for seismic qualified installations are available for use with the recommended Rittal TS8 enclosures listed here. See [Kits for Seismic-qualified Installations on page 161](#) for kit certifications and details.

PowerFlex 755TM Control Bay (Supplier: Rittal)⁽¹⁾

Description ⁽²⁾	Enclosure Type	Width [mm (in.)]	Depth [mm (in.)]	Height [mm (in.)] ⁽³⁾	Rittal Part Number	Equivalent Frame Size
Control Bay	EMC Enclosure	300 (11.8)	600 (23.6)	2000 (78.7)	9977450	8...15
Control Bay	Standard Enclosure	300 (11.8)	600 (23.6)	2000 (78.7)	9977400	8...15

(1) Includes an IP21/IP54 door vent with filter media. The IP21/IP54 roof ventilation kit (cat. no. 20-750-MVENTC2-F8M), which is used on 300 mm (11.8 in.) control bays, must be purchased separately.

(2) Designed for use with frames 8...15 common bus inverters.

(3) This dimension excludes added height for the addition of a roof ventilation kit.

PowerFlex 755TM Input Bays (Supplier: Rittal)

Description	Enclosure Type	Width [mm (in.)]	Depth [mm (in.)]	Height [mm (in.)] ⁽¹⁾	Rittal Part Number	Equivalent Frame Size
Input Bay ⁽²⁾	EMC Enclosure	400 (15.7) ⁽³⁾	600 (23.6)	2000 (78.7)	9961353	8
Input Bay ⁽⁴⁾	EMC Enclosure	600 (23.6) ⁽³⁾			9961354	9
Input Bay ⁽⁵⁾	EMC Enclosure	1000 (39.4) ⁽⁶⁾			9956612	10...15
Input Bay ⁽²⁾	Standard Enclosure	400 (15.7) ⁽³⁾	600 (23.6)	2000 (78.7)	9977401	8
Input Bay ⁽⁴⁾	Standard Enclosure	600 (23.6) ⁽³⁾			9977402	9
Input Bay ⁽⁵⁾	Standard Enclosure	1000 (39.4) ⁽⁶⁾			9970000	10...15

(1) This dimension excludes added height for the addition of a roof ventilation kit.

(2) Designed for Frame 8 drives and bus supplies.

(3) Includes two IP21/IP54 door vents with filter media. The IP21/IP54 roof ventilation kit (cat. no. 20-750-MVENTC2-F8M) must be purchased separately.

(4) Designed for Frame 9 drives and bus supplies.

(5) Designed for Frame 10...15 drives and bus supplies.

(6) IP21 door and roof ventilation kit (cat. no. 20-750-MVENTC1-F11M) and IP54 door and roof ventilation kit (cat. no. 20-750-MVENTC2-F11M) must be purchased separately.

PowerFlex 755TM Power Bays (Supplier: Rittal)⁽¹⁾

Description	Enclosure Type	Width [mm (in.)]	Depth [mm (in.)]	Height [mm (in.)] ⁽²⁾	Rittal Part Number	Equivalent Frame Size	Compatible NRS Modules
Inverter Power Bay	EMC Enclosure	400 (15.7)	600 (23.6)	2000 (78.7)	9977451	8	—
Inverter Power Bay ⁽³⁾	EMC Enclosure	600 (23.6)			9977452	9, 11, 12, 14, 15	—
Converter Power Bay	EMC Enclosure				9956610	8, 10, 12, 13, 15	—
Power Bay	EMC Enclosure	800 (31.5)			9961400	7	—
Inverter Power Bay ⁽³⁾	EMC Enclosure				9977453	10, 12, 13, 15	—
Converter Power Bay	EMC Enclosure				9956611	8...15	—
Inverter Power Bay	Standard Enclosure	400 (15.7)	600 (23.6)	2000 (78.7)	9977405	8	—
NRS Power Bay ⁽³⁾	Standard Enclosure				9977404	—	All
Inverter Power Bay ⁽³⁾	Standard Enclosure	600 (23.6)			9977407	9, 11, 12, 14, 15	—
Converter Power Bay	Standard Enclosure				9977406	8, 10, 12, 13, 15	—
Power Bay	Standard Enclosure	800 (31.5)			9961399	7	—
Power Bay	Standard Enclosure				9840564	7L	—
Inverter Power Bay ⁽³⁾	Standard Enclosure				9977409	10, 12, 13, 15	—
Converter Power Bay	Standard Enclosure				9977408	8...15	—

(1) The IP21 door and roof ventilation kits (cat. no. 20-750-MVENT1-F7M, 20-750-MVENT1-F7L, 20-750-MVENT1-F8M, 20-750-MVENT1-F9M, 20-750-MVENT1-F10M, and 20-750-MVENT1) and IP54 door and roof ventilation kits (cat. no. 20-750-MVENT2-F7M, 20-750-MVENT2-F8M, 20-750-MVENT2-F9M, 20-750-MVENT2-F10M, and 20-750-MVENT2) must be purchased separately.

(2) This dimension excludes added height for the addition of a roof ventilation kit.

- (3) Use of this enclosure for a non-regenerative supply requires that you cut an opening in the door and purchase the NRS cabinet door sight and overlay labels kit (cat. no. 20-750-MN-OVR-NRS). See the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication [750-IN101](#), for details.

PowerFlex 755TM Top Entry/Exit Wire Bays (Supplier: Rittal)

Description	Enclosure Type	Width [mm (in.)]	Depth [mm (in.)]	Height [mm (in.)] ⁽¹⁾	Rittal Part Number	Equivalent Frame Size
Entry/Exit Wire Bay	EMC Enclosure	400 (15.7) ⁽²⁾	600 (23.6)	2000 (78.7)	9961356	8, 13 ⁽³⁾
Entry/Exit Wire Bay	EMC Enclosure	800 (31.5) ⁽⁴⁾			9961357	9...15 ⁽⁵⁾
Entry/Exit Wire Bay	Standard Enclosure	400 (15.7) ⁽³⁾	600 (23.6)	2000 (78.7)	9970001	8, 13 ⁽³⁾
Entry/Exit Wire Bay	Standard Enclosure	800 (31.5) ⁽⁴⁾			9970002	9...15 ⁽⁵⁾

(1) This dimension excludes added height for the addition of a roof ventilation kit.

(2) Includes one IP21/IP54 door vents with filter media and one door vent with filter media and a fan.

(3) Used with frame 13 in-line configurations only.

(4) Includes two IP21/IP54 door vents with filter media and one door vent with filter media and a fan.

(5) Used with frame 14 and 15 in-line configurations only.

PowerFlex 755TM EMC C2 Filter Wire Bay and Required Accessories (Supplier: Rittal and Rockwell Automation)⁽¹⁾

Description	Enclosure Type	Width [mm (in.)]	Depth [mm (in.)]	Height [mm (in.)]	Rittal Model Number	Rockwell Automation Cat. No.
EMC C2 Filter Wire Bay ⁽²⁾	Standard Enclosure	800 (31.5)	600 (23.6)	2000 (78.7)	8806.500	20-750-MPBAY-800
Side Panels (Qty 2) ⁽³⁾	Standard Enclosure	—	600 (23.6)	2000 (78.7)	8106.235	—
Gland Plate ⁽⁴⁾	Standard Enclosure	220 (8.7)	90 (3.5)	—	1158.500	—
Gland Plate ⁽⁴⁾	Standard Enclosure	160 (6.3)	70 (2.8)	—	2560.400	—
Gland Plate ⁽⁴⁾	Standard Enclosure	330 (13.0)	90 (3.5)	—	2561.400	—
Gland Plate ⁽⁴⁾	Standard Enclosure	339 (13.3)	249 (9.8)	—	2562.400	—
Gland Plate ⁽⁴⁾	Standard Enclosure	534 (21.0)	149 (5.9)	—	2563.150	—

(1) This enclosure is used with the EMC C2 filter kits for PowerFlex 755T product installations that require compliance with CE EN61800-3 Category C2 for conducted emissions only. See [EMC C2 Filter Kits on page 149](#) for more information.

(2) Protective guards must be customer-supplied and installed with the EMC C2 filter to prevent an electric shock hazard.

(3) These parts must be ordered separately and must be installed with the wire bay (cat. no 20-750-MPBAY-800). Only one side panel is used in the installation.

(4) These parts must be ordered separately and installed with the wire bay (cat. no 20-750-MPBAY-800). Order the appropriate gland plate(s) based on input wiring needs.

PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation)

Cat. No.	Product / Equivalent Frame Size/Qty.	NRS Module Configuration/ Qty.	Component	Qty.	Cabinet Width mm (in.)	Voltage	Material	Thickness mm (in.)
20-750-MN-WBAY1-400	755TL/TR Drive and 755TM Bus Supply: 8...10 (Qty 1) 13 in-line (Qty 2)	1X, 2X, 1X+2X (Qty 1) 2X+2X+2X, 2 (2X+1X) (Qty 2)	Wire bay	1	400 (16)	400/480/ 600/690V	—	—
			DC bus bars (slotted)	2	400 (16)	600/690V	Aluminum	27 (1.1)
			DC bus bar splice (for slotted bus)	2	—	600/690V	Aluminum	25.4 (1.0)
			AC bus bars (slotted)	3	400 (16)	600/690V	Aluminum	27 (1.1)
			AC bus bar splice (for slotted bus)	3	—	600/690V	Aluminum	25.4 (1.0)
			Ground bus bar	1	400 (16)	600/690V	Copper	9.5 (0.4)
			Ground bus splice bar	1	—	600/690V	Copper	9.5 (0.4)
			Control bus	1	400 (16)	240V (max)	—	—
			Control bus splice	1	—	240V (max)	—	—
			Door fan and wire harness ⁽¹⁾	1	—	240 (max)	—	—
20-750-MN-WBAY2-400	755TL/TR Drive and 755TM Bus Supply: 8...10 (Qty 1) 13 in-line (Qty 2)	1X, 2X, 1X+2X (Qty 1) 2X+2X+2X, 2 (2X+1X) (Qty 2)	Wire bay	1	—	240 (max)	—	—
			DC bus bars (slotted)	2	400 (16)	600/690V	Copper	37 (1.5)
			DC bus bar splice (for slotted bus)	2	—	600/690V	Copper	25.4 (1.0)
			AC bus bars (slotted)	3	400 (16)	600/690V	Aluminum	27 (1.1)
			AC bus bar splice (for slotted bus)	3	—	600/690V	Aluminum	25.4 (1.0)
			Ground bus bar	1	400 (16)	600/690V	Copper	9.5 (0.4)
			Ground bus splice bar	1	—	600/690V	Copper	9.5 (0.4)
			Control bus	1	400 (16)	240V (max)	—	—
			Control bus splice	1	—	240V (max)	—	—
			Door fan and wire harness	1	—	240 (max)	—	—

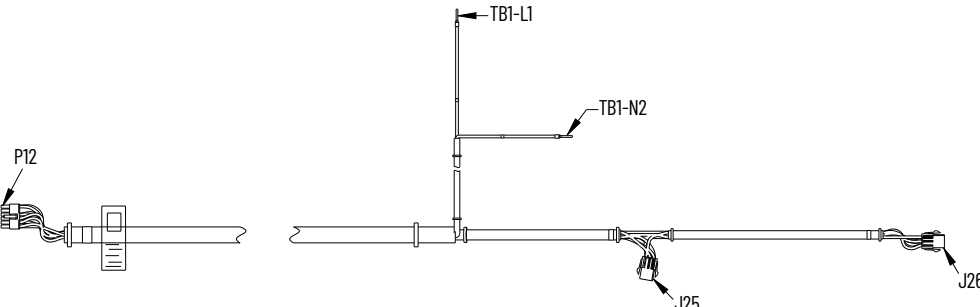
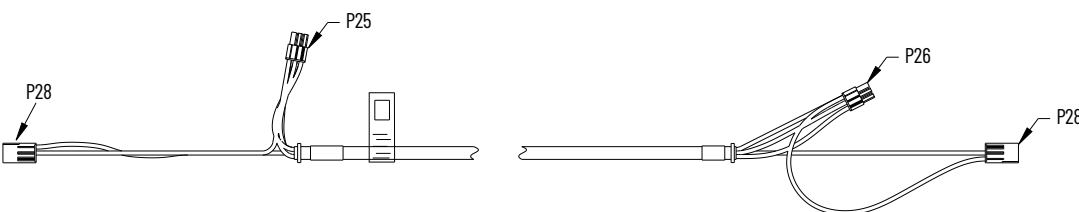
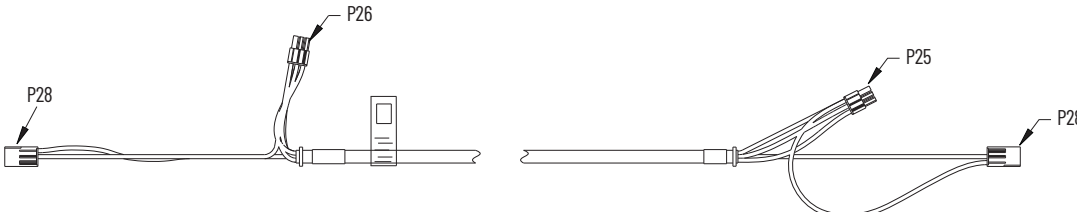
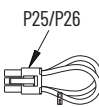
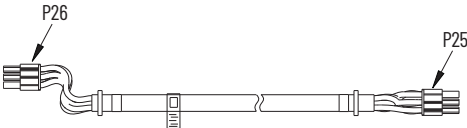
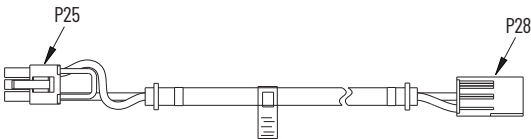
PowerFlex 755TM Wire Entry Bays (Supplier: Rockwell Automation) (Continued)

Cat. No.	Product / Equivalent Frame Size/Qty.	NRS Module Configuration/Qty.	Component	Qty.	Cabinet Width mm (in.)	Voltage	Material	Thickness mm (in.)
20-750-MN-WBAY1-800	755TL/TR Drive and 755TM Bus Supply: 11 and 12 (Qty 1) 14 and 15 in-line (Qty 2)	2X+2X, 2X+2X+1X (Qty 1) 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X) in-line (Qty 2)	Wire bay	1	800 (31)	400/480/600/690V	—	—
			DC bus bars (slotted)	2	800 (31)	600/690V	Copper	37 (1.5)
			DC bus bar splice (for slotted bus)	2	—	600/690V	Copper	25.4 (1.0)
			AC bus bars (slotted)	3	800 (31)	600/690V	Copper	37 (1.5)
			AC bus bar splice (for slotted bus)	3	—	600/690V	Copper	25.4 (1.0)
			Ground bus bar	1	800 (31)	600/690V	Copper	9.5 (0.4)
			Ground bus splice bar	1	—	600/690V	Copper	9.5 (0.4)
			Control bus	1	800 (31)	240V (max)	—	—
			Control bus splice	1	—	240V (max)	—	—
			Door fan and wire harness	1	—	240 (max)	—	—
20-750-MN-WBAY3-800 ⁽²⁾	755TL/TR Drive and 755TM Bus Supply: 11 and 12 (Qty 1) 14 and 15 in-line (Qty 2)	2X+2X, 2X+2X+1X (Qty 1) 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X) in-line (Qty 2)	Wire bay	1	800 (31)	400/480/600/690V	—	—
			AC bus bars (slotted)	3	800 (31)	600/690V	Copper	37 (1.5)
			AC bus bar splice (for slotted bus)	3	—	600/690V	Copper	25.4 (1.0)
			Ground bus bar	1	800 (31)	600/690V	Copper	9.5 (0.4)
			Ground bus splice bar	1	—	600/690V	Copper	9.5 (0.4)
			Control bus	1	800 (31)	240V (max)	—	—
			Control bus splice	1	—	240V (max)	—	—
			Door fan and wire harness	1	—	240 (max)	—	—

(1) This IP00 kit include two door fan power wire harnesses. Use the wire harness labeled PN-392223 with a PowerFlex 755T products. Use the wire harness labeled PN-625780 with a PowerFlex 755TM Non-Regenerative Supply.

(2) This wire bay does not contain DC bus bars or splices.

Non-Regenerative Supply System Interconnection Wire Harness Kits ⁽¹⁾

Cat. No.	Wire Harness Description
20-750-MNIH1	NRS module to cabinet interconnect harness. This wire harness contains connector P12, which includes two open wires that require connection to the 240V AC source provided by the 1 kVA control transformer for the NRS module.
	
20-750-MNIH3	Thermal switch and signal interconnect harness for parallel NRS module, back-to-back configurations only.
	
20-750-MNIH4	Thermal switch and signal interconnect harness for parallel NRS module, in-line configurations only.
	
20-750-MNIH-JMP1	NRS modules signal interconnect loop-back harness.
	
20-750-MNIH-JMP2	NRS module signal interconnect harness for parallel NRS module configurations only.
	
20-750-MNIH-JMP3	Thermal switch and signal interconnect harness for wire bay to power bay.
	

(1) For NRS system interconnection wire harness connection diagram examples, see [NRS System Module Communication on page 91](#).

Frame 13 Drive and NRS System⁽¹⁾ (Back-to-Back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation)

Cat. No.	Kit Component	Qty.	Width [mm (in.)]	Voltage	Material	Thickness [mm (in.)]	Approx. Kit Weight [kg (lb)]
20-750-DCVBB-400	DC bus bars (slotted)	4	400 (16)	600/690	Aluminum	27 (1.1)	523 (1154)
	DC bus bar splice (for slotted bus)	4	—	600/690	Aluminum	25.4 (1.0)	
	DC bus bar splice (flat)	2	—	600/690	Copper	19.05 (0.75)	
	DC bus bar splice (L-shaped)	4	—	600/690	Copper	19.05 (0.75)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars (slotted)	6	400 (16)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar	6	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar splice	2	—	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max)	—	—	
	Control bus splice	2	—	240 (max)	Copper	—	
	Door fan	2	—	240 (max)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

(1) Use for these NRS system configurations: 2 (2X + 1X), 2 (2X+2X), (2X+2X+2X) + (2X+2X), 2 (2X+2X+1X).

Frame 13 Drive, Common Bus Inverter, and NRS System⁽¹⁾ (Back-to-Back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation)

Cat. No.	Kit Component	Qty.	Width [mm (in.)]	Voltage	Material	Thickness [mm (in.)]	Approx. Kit Weight [kg (lb)]
20-750-DCVBB-400C	DC bus bars (slotted)	4	400 (16)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice (for slotted bus)	4	—	600/690	Copper	25.4 (1.0)	
	DC bus bar splice (flat)	2	—	600/690	Copper	19.05 (0.75)	
	DC bus bar splice (L-shaped)	4	—	600/690	Copper	19.05 (0.75)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	400 (16)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar	2	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar splice	2	—	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max)	—	—	
	Control bus splice	2	—	240 (max)	Copper	—	
	Door fan	2	—	240 (max)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

(1) Used for these NRS system configurations: 2 (2X+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X).

Frame 14 and 15 Drive, Common Bus Inverter, and NRS System⁽¹⁾ (Back-to-back Configuration) DC Bus Voltage Balance Bay (Supplier: Rockwell Automation)

Cat. No.	Kit Component	Qty.	Width [mm (in.)]	Voltage	Material	Thickness [mm (in.)]	Approx. Kit Weight [kg (lb)]
20-750-DCVBB-800	DC bus bars (slotted)	4	800 (31)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice (for slotted bus)	4	—	600/690	Copper	25.4 (1.0)	
	DC bus bar splice (flat)	2	—	600/690	Copper	19.05 (0.75)	
	DC bus bar splice (L-shaped)	4	—	600/690	Copper	19.05 (0.75)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	800 (31)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar	2	800 (31)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar splice	2	—	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	800 (31)	240 (max)	—	—	
	Control bus splice	2	—	240 (max)	Copper	—	
	Door fan	2	—	240 (max)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	800 (31)	—	—	—	

(1) Used for these NRS system configurations: 2 (2X+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X).

Frame 13 Drive and NRS System⁽¹⁾ (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation)

Cat. No.	Kit Component	Qty.	Width [mm (in.)]	Voltage	Material	Thickness [mm (in.)]	Approx. Kit Weight [kg (lb)]
20-750-DCVBB-400-FBR	DC bus bars (slotted)	2	400 (16)	600/690	Aluminum	27 (1.1)	523 (1154)
	DC bus bar splice	2	—	600/690	Aluminum	25.4 (1.0)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	400 (16)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar (lower)	1	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar (upper)	1	600 (24)	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max)	—	—	
	Control bus splice	2	—	240 (max)	Copper	—	
	Door fan	2	—	240 (max)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

(1) Used for these NRS system configurations: 2 (2X+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X).

Frame 13 Drive, Bus Supply and NRS System⁽¹⁾ (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation)

Cat. No.	Kit Component	Qty.	Width [mm (in.)]	Voltage	Material	Thickness [mm (in.)]	Approx. Kit Weight [kg (lb)]
20-750-DCVBB-400C-FBR	DC bus bars (slotted)	4	400 (16)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice	2	—	600/690	Copper	25.4 (1.0)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	400 (16)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar (lower)	2	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar (upper)	4	600 (24)	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max)	—	—	
	Control bus splice	2	—	240 (max)	Copper	—	
	Door fan	2	—	240 (max)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

(1) Used for these NRS system configurations: 2 (2X+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X).

Frame 14 and 15 Drive, Bus Supply and NRS System⁽¹⁾ (Back-to-Back Configuration) Entry Wire Bay (Supplier: Rockwell Automation)

Cat. No.	Kit Component	Qty.	Width [mm (in.)]	Voltage	Material	Thickness [mm (in.)]	Approx. Kit Weight [kg (lb)]
20-750-DCVBB-800-FBR	DC bus bars (slotted)	4	800 (31)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice	2	—	600/690	Copper	25.4 (1.0)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	800 (31)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar (lower)	2	800 (31)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar (upper)	4	600 (24)	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	800 (31)	240 (max)	—	—	
	Control bus splice	2	—	240 (max)	Copper	—	
	Door fan	2	—	240 (max)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	800 (31)	—	—	—	

(1) Used for these NRS system configurations: 2 (2X+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X).

Frame 13...15 Bus Supply and NRS System⁽¹⁾ (Back-to-Back Configuration) DC Voltage Balance Bay (Supplier: Rockwell Automation)

Cat. No.	Kit Component	Qty.	Width [mm (in.)]	Voltage	Material	Thickness [mm (in.)]	Approx. Kit Weight [kg (lb)]
20-750-DCVBB-BS	DC bus bars (slotted)	4	400 (16)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice (for slotted bus)	2	—	600/690	Copper	25.4 (1.0)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	DC bus bar splice (flat)	2	—	600/690	Copper	19.05 (0.75)	
	DC bus bar splice (L-shaped)	4	—	600/690	Copper	19.05 (0.75)	
	Ground bus bar	2	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar splice	2	—	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max)	—	—	
	Control bus splice	2	—	240 (max)	Copper	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

(1) Used for these NRS system configurations: 2 (2X+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X).

DC Voltage Balance Bay (Back-to-Back Configuration) DC Bus Splice Kit

Cat No.	Voltage	Material	Thickness [mm (in.)]	Frame	Compatible NRS Modules
20-750-DCVBB-SPLICE	400/480/600/690	Copper	19.05 (0.75)	13...15	All

Kits for Seismic-qualified Installations⁽¹⁾

Cat No.	Enclosure Types ⁽²⁾	Equivalent Frame Size
20-750-MOSHDP-F7M	Power Bay	7
20-750-MOSHDP-F8M	Input Bay, and Power Bay, Exit Wire Bay	8
20-750-MOSHDP-F9M	Input Bay, Power Bay, Exit Wire Bay	9
20-750-MOSHDP-F10M	Entry Wire Bay, Input Bay, Power Bay, and Exit Wire Bay	10
20-750-MOSHDP-F11M	Entry Wire Bay, Input Bay, Power Bay, and Exit Wire Bay	11
20-750-MOSHDP-F12M	Entry Wire Bay, Input Bay, Power Bay, and Exit Wire Bay	12

(1) These kits are used only with the recommended Rittal TS8 enclosures for seismic qualified installations.

(2) Each kit includes parts for the largest possible enclosure lineup for the specified frame size. Therefore, in some cases, not all parts in the kit will be installed.

Power and LCL Filter Module Floor and Support Brackets

Cat. No.	Cabinet Width [mm (in.)]	Cabinet Type	Equivalent Frame Size	NRS System Configuration
20-750-MMNT1-F7M	800 (31)	Power bay	7	—
20-750-MMNT1-F7L	800 (31)	Power bay	7L	—
20-750-MMNT1-F8M	400 (16)	Power bay	8 (Common Bus Inverter)	—
20-750-MMNT1-F9M	600 (24)	Power bay	8...12	—
20-750-MMNT1-F10M	800 (31)	Power bay	8...12	—
20-750-MN-PNL4-NRS ⁽¹⁾	400 (16)	Power bay (NRS)	—	All

(1) This kit includes the upper protective guard and hardware for an NRS power bay.

Bus Support and Divider Panels (Right and Left Sides)

Cat. No.	Cabinet Position	Cabinet Type	Equivalent Frame Size	NRS System Configuration
20-750-MIPNL1-F8M	Upper	Power bay ⁽¹⁾ , Control bay, Regenerative bus supply input bay	8...15	—
20-750-MIPNL3-F8M	Upper	Regenerative drive power bay	8	—
20-750-MCPNL1-F8M	Lower	Power bay (line side converter)	8...15 ⁽²⁾	—
20-750-MIPNL2-F8M	Lower	Power bay (motor side inverter)	8...15	—
20-750-MN-PNL1-NRS	Upper	Power bay (NRS)	—	All
20-750-MN-PNL3-NRS	Lower	Power bay (NRS)	—	All
20-750-MIBPNL1-F10M	Lower	Input bay	10...15	—
20-750-MWBPNL1-F8M	Upper and Lower	Wire bay	8...15	—

(1) For frame 8 regenerative drive power bays, use kit cat. no. 20-750-MIPNL3-F8M.

(2) Cannot be used in a frame 8 power bay when an exit wire bay is installed.

DC Precharge Mounting Brackets

Cat. No.	Cabinet Width [mm (in.)]	Cabinet Type	Equivalent Frame Size
20-750-MDCMNT1-F8M	400 (16)	Power bay	8
20-750-MDCMNT1-M9M	600 (24)	Power bay	9, 11, 12, 14, 15
20-750-MDCMNT1-F10M	800 (31)	Power bay	10, 12, 13, 15

DC Link/Fuse Assembly Support Bracket Kits (NRS)

Cat. No.	Cabinet Width [mm (in.)]	Cabinet Type
20-750-MN-DCLS1-400	400 (16)	Power bay (NRS)

Baffle Assemblies

Catalog Number	Cabinet Width [mm (in.)]	Cabinet Type	Equivalent Frame Size
20-750-MIBAF1-F8M	400 (16)	Power bay	8 (Common Bus Inverter)
20-750-MIBAF1-F9M	600 (24)	Power bay	9...15
20-750-MIBAF1-F10M	800 (31)	Power bay	8...15

Circuit Breaker Mounting Panels

Cat. No.	Cabinet Position	Cabinet Type	Circuit Breaker	Equivalent Frame Size
20-750-MIBPNL2-F10M	Right and left side	Input bay	T8	10, 13 - 400/480/600/690V 11, 14 - 600/690V 12, 15 - 600/690V
20-750-MIBPNL2-F11M	Right and left side	Input bay	E6	11, 14 - 400/480V 12, 15 - 400/480V

Ventilation Assemblies

Cat. No.	Cabinet Width [mm (in.)]	Vent Kit Height ⁽¹⁾ [mm (in.)]	Cabinet Type	Enclosure Rating	Equivalent Frame Size	NRS System Configuration
20-750-MNVENT1	400 (16)	132 (5.2)	Power bay (NRS)	IP21, UL Type 1	—	All
20-750-MNVENT2	400 (16)	132 (5.2)	Power bay (NRS)	IP54, UL Type 12	—	All
20-750-MVENT1-F7M	800 (31)	132 (5.2)	Power bay	IP21, UL Type 1	7	—
20-750-MVENT2-F7M	800 (31)	291 (11.5)	Power bay	IP54, UL Type 12	7	—
20-750-MVENT1-F7L	800 (31)	132 (5.2)	Power bay	IP21, UL Type 1	7L	—
20-750-MVENT1-F8M	400 (16)	132 (5.2)	Power bay	IP21, UL Type 1	8	—
20-750-MVENT1-F9M	600 (24)		Power bay	IP21, UL Type 1	8...15	—
20-750-MVENT1-F10M	800 (31)		Power bay	IP21, UL Type 1	8...15	—
20-750-MVENT2-F8M	400 (16)	291 (11.5)	Power bay	IP54, UL Type 12 ⁽²⁾	8	—
20-750-MVENT2-F9M	600 (24)		Power bay	IP54, UL Type 12 ⁽²⁾	8...15	—
20-750-MVENT2-F10M	800 (31)		Power bay	IP54, UL Type 12 ⁽²⁾	8...15	—
20-750-MVENTC1-F11M	1000 (39)	105.70 (4.2)	Input bay	IP21, UL Type 1	10...15	—
20-750-MVENTC2-F8M	400 (16)	105.70 (4.2)	Input bay	IP21, UL Type 1 / IP54, UL Type 12 ⁽²⁾	8	—
	600 (24)		Input bay	IP21, UL Type 1 / IP54, UL Type 12 ⁽²⁾	9	—
	300 (12)		Control bay	IP54, UL Type 12 ⁽²⁾	8...12	—
20-750-MVENTC2-F11M	1000 (39)	105.70 (4.2)	Input bay	IP54, UL Type 12 ⁽²⁾	10...15	—
SK-RM-WBDR-FANFLR1 ⁽³⁾	400 (16)	Not applicable	Wire bay	IP54, UL Type 12 ⁽²⁾	8...10, 13	—
SK-RM-WBDR-FANFLR2 ⁽⁴⁾	800 (31)	Not applicable	Wire bay	IP54, UL Type 12 ⁽²⁾	11...15	—

(1) This height is added to the height of the enclosure.

(2) Install per instructions. See the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication [750-IN101](#).

(3) Spare part kit listed. This ventilation kit is included with Rittal TS8 enclosure part numbers 9961356 and 9970001.

(4) Spare part kit listed. This ventilation kit is included with Rittal TS8 enclosure part numbers 9961357 and 9970002.

Ventilation Kit Temperature Specifications

Cat. No.	Accessory	Cabinet Type	Inlet Temperature Range ⁽¹⁾
20-750-MVENTC2-F8M	Ventilation kit with a roof fan (IP21, UL Type 1/IP54, UL Type 12)	Input bay (400 mm and 600 mm) Control bay (300 mm)	-25...+80 °C (-13...+176 °F)
20-750-MVENTC1-F11M	Ventilation kit with two door fans (IP21, UL Type 1)	Input bay (1000 mm)	-25...+75 °C (-13...+167 °F)
20-750-MVENTC2-F11M	Ventilation kit with two door fans (IP54, UL Type 12)	Input bay (1000 mm)	

Ventilation Kit Temperature Specifications

Cat. No.	Accessory	Cabinet Type	Inlet Temperature Range ⁽¹⁾
SK-RM-WBDR-FANFLR1	Ventilation kit - door fan (IP21, UL Type 1/IP54, UL Type 12)	Wire bay (400 mm)	-30...+55 °C (-22...+131 °F)
SK-RM-WBDR-FANFLR2		Wire bay (800 mm)	
20-750-MVENT2-F8M	Ventilation kit with one roof fan (IP54, UL Type 12)	Power bay (400 mm)	-40...+70 °C (-40...+158 °F)
20-750-MVENT2-F9M		Power bay (600 mm)	
20-750-MVENT2-F10M	Ventilation kit with two roof fans (IP54, UL Type 12)	Power bay (800 mm)	

(1) Component only rating.

Empty Option Bays

Cat. No.	Cabinet Width [mm (in.)]
20-750-MPBAY-600	600 (24)
20-750-MPBAY-800	800 (31)

Cabinet Bay Hardware

Cat. No.	Description
20-750-MEXTBAY1	Joining hardware for Rittal cabinet.

Equipment Handling Accessories

These accessory kits are used to safely secure, move, and lift the primary system modules.

Cat. No.	Description	Reference Publication
20-750-MCART1 and 20-750-MCART2	Power / LCL filter module service cart and DC precharge module lift	750-IN105
20-750-MINV-ATIP	Power / LCL filter module storage hardware	750-IN106
20-750-MRAMP1	Power module service ramp	750-IN108

Design Considerations

Input Voltage Tolerance

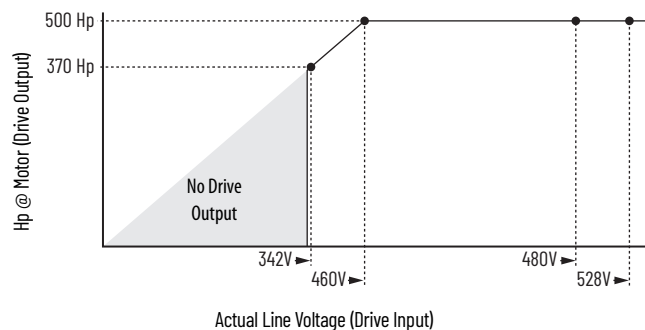
Drive Rating	Nominal Line Voltage	Nominal Motor Voltage	Drive Full Power Range	Drive Operating Range	
380...480	380	380	380...528	348...528V	Hp @ Motor (Drive Output) No Drive Output Derated Power Range Full Power Range Drive Operating Range Nominal Motor Voltage -10% → Nominal Motor Voltage -10% → Drive Rated Voltage → Drive Rated Voltage +10% → Actual Line Voltage (Drive Input)
	400	400	400...528		
	480	460	460...528		
600...690	600	575	575...759	542...759V	
	690	660	660...759		
Drive Full Power Range =		Nominal Motor Voltage to Drive Rated Voltage + 10%. Rated current is available across the entire Drive Full-power Range			
Drive Operating Range =		Lowest Nominal Motor Voltage - 10% to Drive Rated Voltage + 10%. Drive Output is linearly derated when Actual Line Voltage is less than the Nominal Motor Voltage			

EXAMPLE

Calculate the maximum power of a 500 Hp, 460V motor connected to a 480V rated drive supplied with 342V Actual Line Voltage input.

- Actual Line Voltage / Nominal Motor Voltage = 74.3%
- $74.3\% \times 500 \text{ Hp} = 370 \text{ Hp}$
- $74.3\% \times 60 \text{ Hz} = 44.6 \text{ Hz}$

At 342V Actual Line Voltage, the maximum power the 500 Hp, 460V motor can produce is 370 Hp at 44.6 Hz.

**IMPORTANT**

For maximum protection of the drive and its internal components, Rockwell Automation requires the use of fast acting semiconductor fuses to other methods of circuit protection to remain in compliance, at least from module perspective, with agency evaluation. This method reduces risk of drive damage from power quality events, and improves machine and process utilization, thus maximizing productivity. See the Fuse and Circuit Breaker Ratings section in publication [750-TD100](#) for more information that is based on equivalent standard enclosed products.

Control Circuitry Current Load

Single-phase, 240V AC power, with neutral connected to PE ground at source, is required for specific PowerFlex 755T product IP00 modules and components. Optional customer-sourced control transformers can provide this power. See Control Transformer T1...T4, Frames 7...15 and 7L (Supplier: SNC) on page [131](#) for recommended transformers. A 1 kVA control transformer with fuse holders and fuse kit is required to provide 240V AC control power for NRS modules. See Control Transformer with Fuse Holders and Fuses (NRS T1, T2) (Supplier Rockwell Automation) on page [138](#) for information. For 240V AC control power fuses, see the 240V Distribution Fuse Block (FH2) on page [134](#) and 240V Distribution Fuses (used with Fuse Block FH2) (Supplier: Mersen) on page [135](#).

Optionally, an external 24V DC power supply can be used to provide control power to circuit boards when the PowerFlex 755T product is not energized. Rockwell Automation recommends an Allen-Bradley® switched mode power supply, catalog number 1606-XLS240EC. See Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation) on page [137](#) for selection information.

To facilitate a UL-compliant installation for frame 8...15 products, provide 240V AC/24V DC control power to the necessary system modules and components by using the control bus assembly and control bus connector and wire harness kits (where provided). See Control Bus Assemblies and Control Bus Connectors on page [153](#) for information.

These examples represent the typical control-circuitry current load present for the components that are typically used in an equivalent frame size of PowerFlex 755T enclosed products. The current loads that are identified in the tables are used to calculate the total ampacity and rating of the fuses that are used to help protect the control circuits of these modules. The total ampacity cannot exceed the maximum rating of the customer-sourced control power circuit fuse. The total current load that is drawn from the control power sources vary depending on the devices that are installed in your equivalent product that receive power from these sources, including any device that is not listed in these tables. Additionally, to help ensure the accuracy of the control power loads, Rockwell Automation recommends that you use Allen-Bradley components only.

This is an example of a frame 7 drive with an IP21/IP54 rating.

Frame 7, IP21/IP54 Drive

Quantity / Power Source	Power Bay								
	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Control Board	AC Precharge Circuit Breaker and Time Delay Relay	AC Precharge Contactor	LCL Filter Module	Converter Power Module	Inverter Power Module	Torque Accuracy Module ⁽⁷⁾
Quantity	1	1	1	1	1	1	1	1	1
Current at 240V AC (Amp)	—	1.0 ⁽⁴⁾	2.0	1.5 ⁽⁵⁾	0.5 ⁽⁵⁾	2.9	2.9	2.9	0.2 ⁽⁸⁾
Current at 24V DC (Amp)	7.2 ⁽³⁾	—	1.1 ⁽³⁾	—	—	0.9 ⁽⁶⁾	—	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	7.2	—	1.1	—	—	—	1.4	1.4	0.2 ⁽⁸⁾

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This control power source is provided by a Bulletin 1606 power supply.

(4) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(5) This control power source is provided by the AC precharge control circuit board.

(6) This control power source is provided by the connected power module.

(7) This module is optional.

(8) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This is an example of a frame 7 bus supply with an IP21/IP54 rating.

Frame 7, IP21/IP54 Bus Supply

Quantity / Power Source	Power Bay						
	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Control Board	AC Precharge Circuit Breaker and Time Delay Relay	AC Precharge Contactor	LCL Filter Module	Converter Power Module
Quantity	1	1	1	1	1	1	1
Current at 240V AC (Amp)	—	1.0 ⁽⁴⁾	2.0	1.5 ⁽⁵⁾	0.5 ⁽⁵⁾	2.9	2.9
Current at 24V DC (Amp)	7.2 ⁽³⁾	—	1.1 ⁽³⁾	—	—	0.9 ⁽⁶⁾	—
Aux Current at 24V DC (Amp) ⁽¹⁾	7.2	—	1.1	—	—	—	1.4

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This control power source is provided by a Bulletin 1606 power supply.

(4) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(5) This control power source is provided by the AC precharge control circuit board.

(6) This control power source is provided by the connected power module.

This is an example of a frame 7L drive with an IP21 rating.

Frame 7L, IP21 Liquid Cooled Drive

Quantity / Power Source	Power Bay							
	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Control Board	AC Precharge Circuit Breaker and Time Delay Relay	AC Precharge Contactor	LCL Filter Module	Converter Power Module	Inverter Power Module
Quantity	1	1	1	1	1	1	1	1
Current at 240V AC (Amp)	—	1.0 ⁽⁴⁾	2.0	1.5 ⁽⁵⁾	0.5 ⁽⁵⁾	2.9	1.5	1.5
Current at 24V DC (Amp)	7.2 ⁽³⁾	—	1.1 ⁽³⁾	—	—	0.9 ⁽⁶⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	7.2	—	1.1	—	—	—	1.4	1.4

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This control power source is provided by a Bulletin 1606 power supply.

(4) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(5) This control power source is provided by the AC precharge control circuit board.

(6) This control power source is provided by the connected power module.

This frame 8 example represents a bus supply combined with a common bus inverter with a DC precharge module, control bay and exit wire bay, and an IP21 rating.

Frame 8, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bay		Control Bay		Inverter Power Bay			Exit Wire Bay
	Roof Fan	Control Pod ⁽²⁾	Power Supply Bulletin 1606	ACPC Module ⁽⁴⁾	Power Module	LCL Filter Module	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	Door Fan
Quantity	1	1	1	1	1	1	1	1	1	1	1	1
Current at 240V AC (Amp)	0.3	—	0.35 ⁽³⁾	2.0	2.9	2.9	0.3	—	2.9	2.0	0.2 ⁽⁷⁾	0.3
Current at 24V DC (Amp)	—	5.2	—	1.1	—	0.9 ⁽⁵⁾	—	5.2	—	0.5 ⁽⁵⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	1.4	—	—	5.2	1.4	—	0.2 ⁽⁷⁾	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 8 example represents a bus supply combined with a common bus inverter with a DC precharge module, control bay and exit wire bay, and an IP54 rating.

Frame 8, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bay			Control Bay		Inverter Power Bay				Wire Bay
	Roof Fan	Control Pod ⁽²⁾	Power Supply Bulletin 1606	ACPC Module ⁽⁴⁾	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	IP54 Vent Fan	(Entry / Exit) Fan
Quantity	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Current at 240V AC (Amp)	0.3	—	0.35 ⁽³⁾	2.0	2.9	2.9	2.0	0.3	—	2.9	2.0	0.2 ⁽⁷⁾	2.0	0.3
Current at 24V DC (Amp)	—	5.2	—	1.1	—	0.9 ⁽⁵⁾	—	—	5.2	—	0.5 ⁽⁵⁾	—	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	1.4	—	—	—	5.2	1.4	—	0.2 ⁽⁷⁾	—	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 9 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 9, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bay		Control Bay		Inverter Power Bay			Wire Bay
	Roof Fan	Control Pod ⁽²⁾	Power Supply Bulletin 1606	ACPC Module ⁽⁴⁾	Power Module	LCL Filter Module	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	(Entry / Exit) Fan
Quantity	1	1	1	1	2	1	1	1	2	2	1	1
Current at 240V AC (Amp)	0.3	—	0.35 ⁽³⁾	2.0	5.8	2.9	0.3	—	5.8	4.0	0.2 ⁽⁷⁾	0.4
Current at 24V DC (Amp)	—	5.2	—	1.1	—	0.9 ⁽⁵⁾	—	5.2	—	1.0 ⁽⁵⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	2.8	—	—	5.2	2.8	—	0.2 ⁽⁷⁾	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 9 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 9, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bay			Control Bay		Inverter Power Bay				Wire Bay
	Roof Fan	Control Pod ⁽²⁾	Power Supply Bulletin 1606	ACPC Module ⁽⁴⁾	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	IP54 Vent Fan	(Entry / Exit) Fan
Quantity	1	1	1	1	2	1	2	1	1	2	2	1	1	1
Current at 240V AC (Amp)	0.3	—	0.35 ⁽³⁾	2.0	5.8	2.9	4.0	0.3	—	5.8	4.0	0.2 ⁽⁷⁾	2.0	0.4
Current at 24V DC (Amp)	—	5.2	—	1.1	—	0.9 ⁽⁵⁾	—	—	5.2	—	1.0 ⁽⁵⁾	—	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	2.8	—	—	—	5.2	2.8	—	0.2 ⁽⁷⁾	—	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 10 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 10, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bay			Wire Bay
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	(Entry / Exit) Fan
Quantity	2	1	2	1	3	2	1	1	3	3	1	1
Current at 240V AC (Amp)	—	—	0.7 ⁽³⁾	2.0	8.7	5.8	0.3	—	8.7	6.0	0.2 ⁽⁷⁾	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	1.8 ⁽⁵⁾	—	5.2	—	1.5 ⁽⁵⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	4.2	—	—	5.2	4.2	—	0.2 ⁽⁷⁾	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 10 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 10, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bay				Wire Bay
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	IP54 Vent Fan	(Entry / Exit) Fan
Quantity	2	1	2	1	3	2	3	1	1	3	3	1	2	1
Current at 240V AC (Amp)	—	—	0.7 ⁽³⁾	2.0	8.7	5.8	6.0	0.3	—	8.7	6.0	0.2 ⁽⁷⁾	4.0	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	1.8 ⁽⁵⁾	—	—	5.2	—	1.5 ⁽⁵⁾	—	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	4.2	—	—	—	5.2	4.2	—	0.2 ⁽⁷⁾	—	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 11 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 11, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bays			Wire Bay
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	(Entry / Exit) Fan
Quantity	2	1	2	1	4	2	1	1	4	4	1	1
Current at 240V AC (Amp)	—	—	0.7 ⁽³⁾	2.0	11.6	5.8	0.3	—	11.6	8.0	0.2 ⁽⁷⁾	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	1.8 ⁽⁵⁾	—	5.2	—	2.0 ⁽⁵⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	5.6	—	—	5.2	5.6	—	0.2 ⁽⁷⁾	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 11 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 11, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bays				Wire Bay
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	IP54 Vent Fan	(Entry / Exit) Fan
Quantity	2	1	2	1	4	2	4	1	1	4	4	1	2	1
Current at 240V AC (Amp)	—	—	0.7 ⁽³⁾	2.0	11.6	5.8	8.0	0.3	—	11.6	8.0	0.2 ⁽⁷⁾	4.0	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	1.8 ⁽⁵⁾	—	—	5.2	—	2.0 ⁽⁵⁾	—	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	5.6	—	—	—	5.2	5.6	—	0.2 ⁽⁷⁾	—	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 12 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 12, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bays			Wire Bay
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	(Entry / Exit) Fan
Quantity	2	1	2	1	5	3	1	1	5	5	1	1
Current at 240V AC (Amp)	—	—	0.7 ⁽³⁾	2.0	14.5	8.7	0.3	—	14.5	10.0	0.2 ⁽⁷⁾	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	2.7 ⁽⁵⁾	—	5.2	—	2.5 ⁽⁵⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	7.0	—	—	5.2	7.0	—	0.2 ⁽⁷⁾	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 12 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 12, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bays				Wire Bay
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	IP54 Vent Fans	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	IP54 Vent Fans	(Entry / Exit) Fan
Quantity	2	1	2	1	5	3	5	1	1	5	5	1	3	1
Current at 240V AC (Amp)	—	—	0.7 ⁽³⁾	2.0	14.5	8.7	10.0	0.3	—	14.5	10.0	0.2 ⁽⁷⁾	6.0	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	2.7 ⁽⁵⁾	—	—	5.2	—	2.5 ⁽⁵⁾	—	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	1.1	7.0	—	—	—	5.2	7.0	—	0.2 ⁽⁷⁾	—	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 13 example represents a bus supply combined with a common bus inverter with DC precharge modules, and control bay, and an IP21 rating.

Frame 13, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bays				Converter Power Bays		Control Bays		Inverter Power Bays		
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾
Quantity	4	1	4	2	6	4	2	1	6	6	1
Current at 240V AC (Amp)	—	—	1.4 ⁽³⁾	4.0	17.4	11.6	0.6	—	17.4	12.0	0.2 ⁽⁷⁾
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	3.6 ⁽⁵⁾	—	5.2	—	3.0 ⁽⁵⁾	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	2.2	8.4	—	—	5.2	8.4	—	0.2 ⁽⁷⁾

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 13 example represents a bus supply combined with a common bus inverter with DC precharge modules, and control bay, and an IP54 rating.

Frame 13, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bays				Converter Power Bays			Control Bays		Inverter Power Bays			
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	IP54 Vent Fans	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	IP54 Vent Fans
Quantity	4	1	4	2	6	4	6	2	1	6	6	1	4
Current at 240V AC (Amp)	—	—	1.4 ⁽³⁾	4.0	17.4	11.6	12.0	0.6	—	17.4	12.0	0.2 ⁽⁷⁾	8.0
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	3.6 ⁽⁵⁾	—	—	5.2	—	3.0 ⁽⁵⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	2.2	8.4	—	—	—	5.2	8.4	—	0.2 ⁽⁷⁾	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 14 example represents a bus supply combined with a common bus inverter with DC precharge modules, and control bay, and an IP21 rating.

Frame 14, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bays		
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾
Quantity	4	1	4	2	8	4	2	1	8	8	1
Current at 240V AC (Amp)	—	—	1.4 ⁽³⁾	4.0	23.3	11.6	0.6	—	23.3	16.0	0.2 ⁽⁷⁾
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	3.6 ⁽⁵⁾	—	5.2	—	4.0 ⁽⁵⁾	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	2.2	11.2	—	—	5.2	11.2	—	0.2 ⁽⁷⁾

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 14 example represents a bus supply combined with a common bus inverter with DC precharge modules, and control bay, and an IP54 rating.

Frame 14, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bays			
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	IP54 Vent Fan
Quantity	4	1	4	2	8	4	8	2	1	8	8	1	4
Current at 240V AC (Amp)	—	—	1.4 ⁽³⁾	4.0	23.3	11.6	16.0	0.6	—	23.3	16.0	0.2 ⁽⁷⁾	8.0
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	3.6 ⁽⁵⁾	—	—	5.2	—	4.0 ⁽⁵⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	2.2	11.2	—	—	—	5.2	11.2	—	0.2 ⁽⁷⁾	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 15 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 15, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bays		
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾
Quantity	4	1	4	2	10	6	2	1	10	10	1
Current at 240V AC (Amp)	—	—	1.4 ⁽³⁾	4.0	29.0	17.4	0.6	—	29.0	20.0	0.2 ⁽⁷⁾
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	5.4 ⁽⁵⁾	—	5.2	—	5.0 ⁽⁵⁾	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	2.2	14.0	—	—	5.2	14.0	—	0.2 ⁽⁷⁾

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 15 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 15, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bays			
	Door Fans	Control Pod ⁽²⁾	Power Supply Bulletin 1606	AC Precharge Devices ⁽⁴⁾	Power Module	LCL Filter Module	IP54 Vent Fans	Roof Fan	Control Pod ⁽²⁾	Power Module	DCPC Module ⁽⁶⁾	Torque Accuracy Module ⁽⁶⁾	IP54 Vent Fans
Quantity	4	1	4	2	10	6	10	2	1	10	10	1	6
Current at 240V AC (Amp)	—	—	1.4 ⁽³⁾	4.0	29.0	17.4	20.0	0.6	—	29.0	20.0	0.2 ⁽⁷⁾	12.0
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	5.4 ⁽⁵⁾	—	—	5.2	—	5.0 ⁽⁵⁾	—	—
Aux Current at 24V DC (Amp) ⁽¹⁾	—	5.2	—	2.2	14.0	—	—	—	5.2	14.0	—	0.2 ⁽⁷⁾	—

(1) This control power source is optional.

(2) The 24V DC current draw value for the control pod does not include any option modules, if installed.

(3) This value is the minimum current draw of the Bulletin 1606 power supply only. The maximum current draw of the Bulletin 1606 power supply on the 240V AC line is calculated based on the total current draw [values shown in the Current at 24V DC (Amp) row] of the components that require 24V DC power provided by the power supply.

(4) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.

(5) This control power source is provided by the connected power module.

(6) This module is optional.

(7) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

Approximate Watts Loss

The following tables lists watts loss data for drives, bus supplies, and common bus inverters products running at full load, full speed, and default carrier frequency in light-duty mode. This data is based on equivalent standard enclosed PowerFlex 755T products. Watts loss tables for the PowerFlex 755TM Non-Regenerative Supply begin on page [178](#).

Watts Loss for 400V 755T Devices

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G...C302	7	200	367	6,707	—
20G...C367	7	250	460	8,699	—
20G...C460	7	315	540	10,634	—
20G...C540	7	315	585	11,812	—
20G...C585	7	315	617	12,689	—
20G...C650	7L	355	650	15,533	—
20G...C302	8	200	367	11,340	4,811
20G...C367	8	250	460	14,803	6,162
20G...C460	8	315	540	18,267	7,508
20G...C540	8	315	585	20,414	8,340
20G...C585	8	355	650	18,146	7,707
20G...C650	8	400	750	23,110	9,692
20G...C750	8	450	796	23,990	10,048
20G...C770	8	450	832	26,835	11,200
20G...C920	9	560	1040	31,740	13,993
20G...C1K0	9	630	1090	33,828	14,884
20G...C1K1	9	710	1182	31,010	13,958
20G...C1K2	9	800	1465	41,344	18,527
20G...C1K4	9	850	1581	46,064	20,615
20G...C1K6	10	1000	1715	45,311	20,435
20G...C1K7	10	1250	2150	60,912	27,393
20G...C2K1	10	1400	2330	68,143	30,622
20G...C2K8	11	1800	3078	86,593	40,450
20G...C3K5	12	2200	3846	111,599	51,249
20G...C4K2	13	2475	4576	136,286	61,244
20G...C5K6	14	3285	6074	173,186	80,900
20G...C7K0	15	4095	7571	223,198	102,498

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J...C302	7	228	394	4,086
20J...C367	7	286	494	5,358
20J...C460	7	336	579	6,608
20J...C540	7	364	628	7,375
20J...C585	7	384	662	7,948
—	—	—	—	—
20J...C302	8	228	394	6,594
20J...C367	8	286	494	8,740
20J...C460	8	336	579	10,894
20J...C540	8	364	628	12,231
20J...C585	8	387	667	10,615
20J...C650	8	467	805	13,673
20J...C750	8	479	826	14,209
20J...C770	8	518	893	15,947
20J...C920	9	647	1116	17,991
20J...C1K0	9	678	1170	19,211
20J...C1K1	9	735	1268	17,367
20J...C1K2	9	911	1572	23,298
20J...C1K4	9	983	1696	26,007
20J...C1K6	10	1067	1840	25,316
20J...C1K7	10	1337	2307	34,207
20J...C2K1	10	1449	2500	38,328
20J...C2K8	11	1915	3303	47,198
20J...C3K5	12	2393	4127	61,667
20J...C4K2	13	2848	4912	76,656
20J...C5K6	14	3779	6519	94,396
20J...C7K0	15	4711	8126	123,334

Watts Loss for 480V 755T Devices

Catalog Number	Frame	Light Duty Hp Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G...D302	7	300	361	6,854	—
20G...D361	7	350	430	8,320	—
20G...D430	7	400	485	9,597	—
20G...D505	7	450	545	11,100	—
20G...D617	7	500	617	13,054	—
20G...D650	7L	600	650	16,056	—

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J...D302	7	258	371	4,154
20J...D361	7	307	442	5,072
20J...D430	7	347	499	5,879
20J...D505	7	390	560	6,837
20J...D617	7	441	635	8,091
—	—	—	—	—

Watts Loss for 480V 755T Devices (Continued)

Catalog Number	Frame	Light Duty Hp Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G...D302	8	300	361	11,568	4840
20G...D361	8	350	430	14,170	5825
20G...D430	8	400	485	16,493	6701
20G...D505	8	450	545	19,280	7748
20G...D545	8	500	617	17,322	7383
20G...D617	8	600	710	21,861	9189
20G...D710	8	650	765	23,149	9709
20G...D740	8	700	800	25,852	10,799
20G...D800	9	800	960	29,208	12,903
20G...D960	9	900	1045	32,645	14,365
20G...D1K0	9	1000	1135	29,520	13,387
20G...D1K1	9	1100	1365	38,046	17,180
20G...D1K3	9	1250	1520	44,113	19,881
20G...D1K4	10	1500	1655	44,394	20,019
20G...D1K6	10	1800	2070	59,059	26,537
20G...D2K0	10	2000	2240	65,776	29,525
20G...D2K6	11	2600	2960	83,398	38,960
20G...D3K4	12	3300	3696	106,950	48,975
20G...D4K0	13	3900	4400	131,552	59,050
20G...D5K4	14	5200	5840	166,796	77,920
20G...D6K7	15	6400	7280	213,900	97,950

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J...D302	8	258	371	6786
20J...D361	8	307	442	8425
20J...D430	8	347	499	9893
20J...D505	8	390	560	11,658
20J...D545	8	422	607	10,086
20J...D617	8	508	730	12,882
20J...D710	8	529	761	13,668
20J...D740	8	573	823	15,319
20J...D800	9	687	987	16,498
20J...D960	9	748	1075	18,507
20J...D1K0	9	802	1153	16,394
20J...D1K1	9	977	1404	21,250
20J...D1K3	9	1087	1563	24,707
20J...D1K4	10	1184	1702	24,751
20J...D1K6	10	1481	2129	33,109
20J...D2K0	10	1603	2304	36,937
20J...D2K6	11	2118	3044	45,334
20J...D3K4	12	2632	3784	59,082
20J...D4K0	13	3149	4527	73,874
20J...D5K4	14	4180	6008	90,668
20J...D6K7	15	5210	7489	118,164

Watts Loss for 600V 755T Devices

Catalog Number	Frame	Light Duty Hp Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G...E192	7	250	242	5,954	—
20G...E242	7	300	295	7,319	—
20G...E295	7	350	355	9,039	—
20G...E355	7	400	395	10,288	—
20G...E395	7	450	435	11,619	—
20G...E242	8	300	295	13,483	5312
20G...E295	8	350	355	16,499	6344
20G...E355	8	400	395	18,702	7090
20G...E395	8	450	435	21,059	7883
20G...E435	8	500	510	22,039	8483
20G...E545	8	600	580	25,885	9827
20G...E595	9	700	690	28,996	11,969
20G...E690	9	800	760	33,206	13,256
20G...E760	9	900	825	35,657	14,516
20G...E825	9	1000	980	38,230	15,908
20G...E980	9	1100	1102	44,018	18,202
20G...E1K1	10	1250	1220	48,145	19,811

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J...E192	7	217	249	3,475
20J...E242	7	263	303	4,282
20J...E295	7	317	365	5,307
20J...E355	7	353	406	6,056
20J...E395	7	389	447	6,858
20J...E242	8	263	303	8212
20J...E295	8	317	365	10,212
20J...E355	8	353	406	11,681
20J...E395	8	389	447	13,258
20J...E435	8	456	524	13,667
20J...E545	8	518	596	16,200
20J...E595	9	617	710	17,130
20J...E690	9	680	782	20,073
20J...E760	9	737	848	21,285
20J...E825	9	877	1008	22,523
20J...E980	9	985	1133	26,068
20J...E1K1	10	1091	1255	28,541

Watts Loss for 600V 755T Devices (Continued)

Catalog Number	Frame	Light Duty Hp Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G...E1K2	10	1500	1430	57,543	23,430
20G...E1K5	10	1600	1624	66,994	27,059
20G...E2K0	11	2100	2146	84,849	35,627
20G...E2K4	12	2600	2668	108,608	44,685
20G...E2K9	13	3300	3190	133,988	54,118
20G...E3K9	14	4400	4234	169,698	71,254
20G...E4K9	15	5500	5278	217,216	89,370

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J...E1K2	10	1279	1471	34,395
20J...E1K5	10	1452	1670	40,298
20J...E2K0	11	1919	2207	49,697
20J...E2K4	12	2386	2744	64,508
20J...E2K9	13	2851	3278	80,596
20J...E3K9	14	3784	4351	99,394
20J...E4K9	15	4717	5424	129,016

Watts Loss for 690V 755T Devices

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G...F171	7	200	215	5,740	—
20G...F215	7	250	265	7,035	—
20G...F265	7	315	330	8,918	—
20G...F330	7	355	370	10,190	—
20G...F370	7	400	415	11,723	—
20G...F215	8	250	265	12,875	5057
20G...F265	8	315	330	16,200	6171
20G...F330	8	355	370	18,459	6917
20G...F370	8	400	415	21,194	7814
20G...F415	8	450	460	20,668	7971
20G...F505	8	560	565	26,512	9990
20G...F565	9	630	650	24,768	10,319
20G...F650	9	710	735	33,893	13,383
20G...F735	9	800	820	37,242	15,075
20G...F820	9	900	920	37,736	15,605
20G...F920	9	1000	1074	45,212	18,529
20G...F1K0	10	1100	1150	48,104	19,660
20G...F1K1	10	1250	1344	56,985	23,033
20G...F1K4	10	1500	1582	68,911	27,546
20G...F1K8	11	2000	2091	87,377	36,268
20G...F2K3	12	2500	2599	111,745	45,474
20G...F2K7	13	3080	3108	137,822	55,092
20G...F3K6	14	4088	4125	174,754	72,536
20G...F4K5	15	5096	5142	223,490	90,948

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J...F171	7	221	221	3,424
20J...F215	7	272	272	4,199
20J...F265	7	339	339	5,340
20J...F330	7	380	380	6,116
20J...F370	7	426	426	7,058
20J...F215	8	272	272	7851
20J...F265	8	339	339	10,079
20J...F330	8	380	380	11,602
20J...F370	8	426	426	13,455
20J...F415	8	472	472	12,788
20J...F505	8	580	580	16,657
20J...F565	9	580	580	14,519
20J...F650	9	754	754	20,625
20J...F735	9	842	842	22,308
20J...F820	9	944	944	22,308
20J...F920	9	1102	1102	26,922
20J...F1K0	10	1180	1180	28,629
20J...F1K1	10	1380	1380	34,201
20J...F1K4	10	1624	1624	41,708
20J...F1K8	11	2146	2146	51,558
20J...F2K3	12	2668	2668	66,824
20J...F2K7	13	3190	3190	83,416
20J...F3K6	14	4234	4234	103,116
20H...F4K5	15	5278	5278	133,648

The following tables lists watts loss data for NRS modules running at full load in light-duty mode. This data is based on equivalent standard enclosed PowerFlex 755TM NRS products.

Watts Loss for 400V 755TM Non-Regenerative Supply

Catalog Numbers	NRS System Configuration	Light Duty kW Output	Light Duty AC Input Amps	Light Duty Cont. Output DC Amps	Total Watts Loss
20JEH...C770 20-750-MNn-C770D740	1X	518	799	959	3161
20JEH...C1K4 20-750-MNn-C1K4D1K3	2X	983	1517	1821	6058
Parallel configurations of 1X and 2X NRS module catalog numbers	1X+2X	1450	2237	2685	8962
	2X+2X	1916	2956	3548	11,864
	2X+2X+1X	2382	3675	4411	14,766
	2X+2X+2X	2848	4395	5275	17,670
	2 (2X+1X)				
	2 (2X+2X)	3780	5833	7001	23,475
	2 (2X+2X+1X)	4713	7271	8727	29,279
	2 (2X+2X+2X)	4713	7271	8727	29,279

Watts Loss for 480V 755TM Non-Regenerative Supply

Catalog Numbers	NRS System Configuration	Light Duty kW Output	Light Duty AC Input Amps	Light Duty Cont. Output DC Amps	Total Watts Loss
20JEH...D740 20-750-MNn-C770D740	1X	572	736	883	3173
20JEH...D1K3 20-750-MNn-C1K4D1K3	2X	1087	1398	1678	5702
Parallel configurations of 1X and 2X NRS module catalog numbers	1X+2X	1603	2061	2473	8439
	2X+2X	2118	2723	3268	11,176
	2X+2X+1X	2633	3386	4063	13,913
	2X+2X+2X	3147	4048	4857	16,647
	2 (2X+1X)				
	2 (2X+2X)	4177	5373	6446	22,119
	2 (2X+2X+1X)	5207	6698	8035	27,591
	2 (2X+2X+2X)	5207	6698	8035	27,591

Watts Loss for 600V 755TM Non-Regenerative Supply

Catalog Numbers	NRS System Configuration	Light Duty kW Output	Light Duty AC Input Amps	Light Duty Cont. Output DC Amps	Total Watts Loss
20JEH...E545 20-750-MNn-E545F505	1X	518	534	640	2521
20JEH...E980 20-750-MNn-E980F920	2X	986	1014	1217	4870
Parallel configurations of 1X and 2X NRS module catalog numbers	1X+2X	1452	1495	1792	7353
	2X+2X	1918	1976	2368	9746
	2X+2X+1X	2385	2456	2944	12,140
	2X+2X+2X	2851	2937	3520	14,534
	2 (2X+1X)				
	2 (2X+2X)	3784	3898	4672	19,321
	2 (2X+2X+1X)	4717	4859	5824	24,109
	2 (2X+2X+2X)	4717	4859	5824	24,109

Watts Loss for 690V 755TM Non-Regenerative Supply

Catalog Numbers	NRS System Configuration	Light Duty kW Output	Light Duty AC Input Amps	Light Duty Cont. Output DC Amps	Total Watts Loss
20JEH...F505 20-750-MNn-E545F505	1X	596	534	640	2530
20JEH...F920 20-750-MNn-E980F920	2X	1134	1014	1217	4890

Watts Loss for 690V 755TM Non-Regenerative Supply (Continued)

Catalog Numbers	NRS System Configuration	Light Duty kW Output	Light Duty AC Input Amps	Light Duty Cont. Output DC Amps	Total Watts Loss
Parallel configurations of 1X and 2X NRS module catalog numbers	1X+2X	1669	1495	1792	7382
	2X+2X	2206	1976	2368	9785
	2X+2X+1X	2742	2456	2944	12,189
	2X+2X+2X	3279	2937	3520	14,592
	2 (2X+1X)				
	2 (2X+2X)	4352	3898	4672	19,399
	2 (2X+2X+1X)	5425	4859	5824	24,207
	2 (2X+2X+2X)	5425	4859	5824	24,207

Derating Guidelines

The following sections describe conditional derating guidelines. These guidelines are based on equivalent standard enclosed products.

Ambient Temperature Derating

The derating curves in this section apply under the following conditions:

- The switching frequency is 2 kHz or 4 kHz.
- The operation is not low-speed. In this situation, “low-speed” is defined as continuously below 10 Hz output frequency.
- The elevation is not greater than 2000 m (6562 ft) above sea level.

For switching frequencies greater than 4 kHz, low-speed operation, or operation at elevations greater than 2000 m (6562 ft) above sea level, the maximum ambient temperature supported is 40 °C (104 °F). For these conditions, see the following:

- [Low Speed Derating with Reduced Carrier Frequency on page 180](#)
- [Low Speed Derating on page 205](#)
- [Temperature and Altitude Derating on page 230](#)

Voltage Boost Derating

When voltage control parameters are used to set the DC bus voltage reference to a value that is greater than the default value, the DC bus output current is reduced. This voltage boost does not affect overload capabilities. Consult factory for derate information.

Extruded DC Bus Derating Guidelines

When using Rockwell Automation extruded DC bus bar assembly kits (bus support insulators included), the maximum bus bar surface temperature cannot exceed 105 °C (221 °F). To meet this temperature rating, the ratings limits are identified in the Extruded DC Bus Bar Ratings table. DC bus bar splice kits are rated for use with all extruded DC bus bar kits. See [Frame 8...15 and NRS System DC Bus Bars on page 152](#) for a list of available kits.

Extruded DC Bus Bar Assembly Ratings

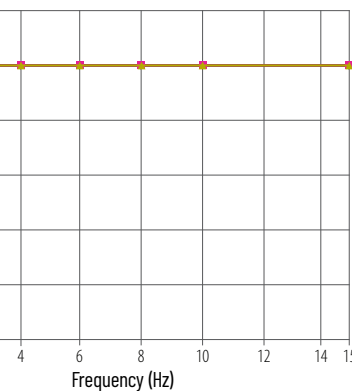
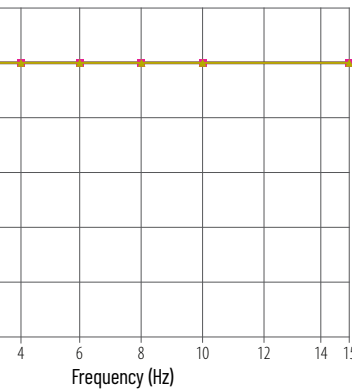
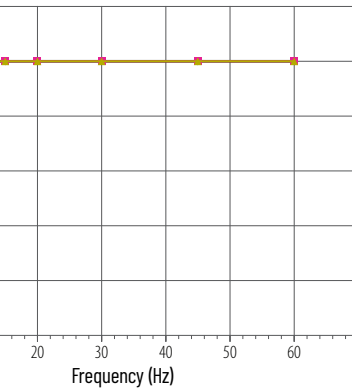
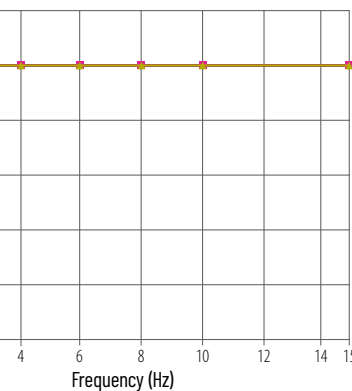
Material	Bus Bar Width	Min. Air Flow ⁽¹⁾	Max. Surrounding Air Temp	Max. Amp Rating
Aluminum	27 mm (1.1 in.)	0.6 m/s (2 ft/sec)	70 °C (158 °F)	3000
		zero air velocity (still air)	60 °C (140 °F)	2000
		zero air velocity (still air)	70 °C (158 °F)	1700
Copper	37 mm (1.5 in.)	0.6 m/s (2 ft/sec)	75 °C (167 °F)	4700
		zero air velocity (still air)	60 °C (140 °F)	2500
		zero air velocity (still air)	75 °C (167 °F)	2000

(1) Air flow across the bus bars.

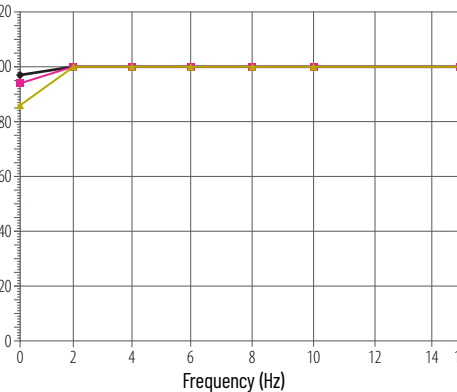
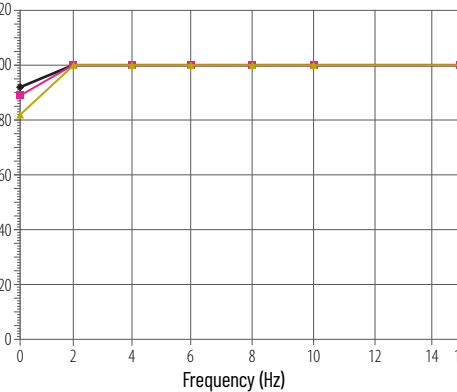
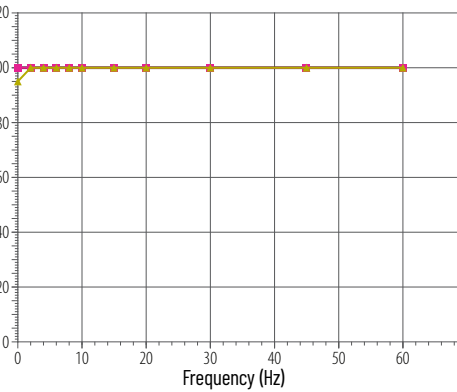
Low Speed Derating with Reduced Carrier Frequency

The following graphs show the carrier frequency deratings for motor side inverters. If a catalog number is not shown, that drive can be operated without derating as long as the limits specified on page 179 are followed.

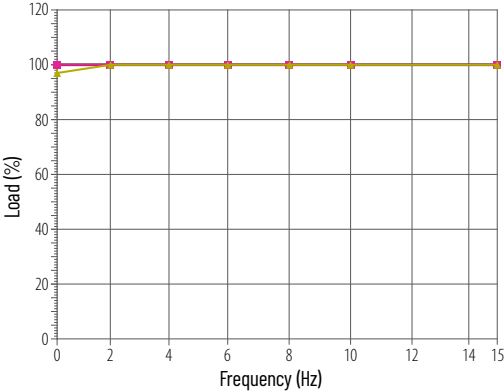
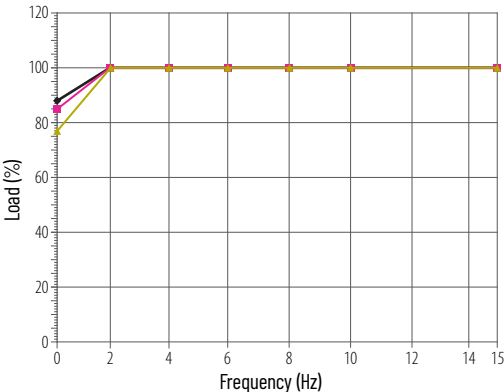
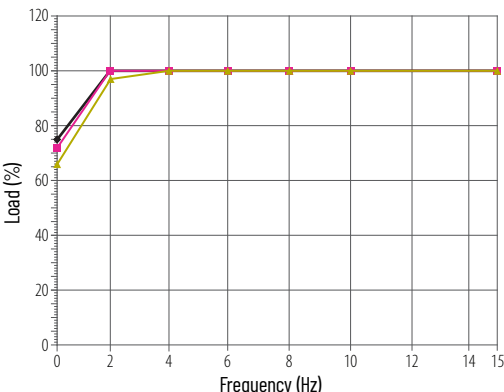
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—400V AC

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12															
		LD		ND		HD		Output Freq.		PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 									
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz												
C302	7	200	367	160	302	132	260	0	100	100	100												
								2	100	100	100												
								4	100	100	100												
								6	100	100	100												
								8	100	100	100												
								10	100	100	100												
								15	100	100	100												
								20	100	100	100												
								30	100	100	100												
								45	100	100	100												
								60	100	100	100												
C367	7	250	460	200	367	160	302	0	100	100	100												
								2	100	100	100												
								4	100	100	100												
								6	100	100	100												
								8	100	100	100												
								10	100	100	100												
								15	100	100	100												
								20	100	100	100												
								30	100	100	100												
								45	100	100	100												
								60	100	100	100												
C460	7	315	540	250	460	200	367	0	100	100	94												
								2	100	100	100												
								4	100	100	100												
								6	100	100	100												
								8	100	100	100												
								10	100	100	100												
								15	100	100	100												
								20	100	100	100												
								30	100	100	100												
								45	100	100	100												
								60	100	100	100												

Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.		PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz			
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
C540	7	315	585	315	540	250	460	0	97	94	86						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
C585	7	315	617	315	600	250	500	0	92	89	82						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
C650	7L	355	650	355	650	250	477	0	100	100	95						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

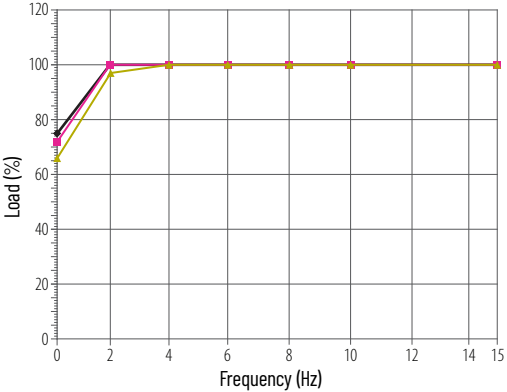
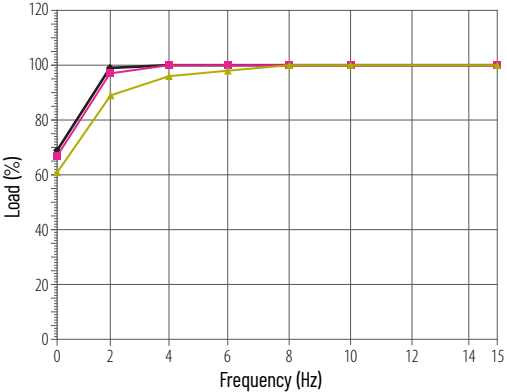
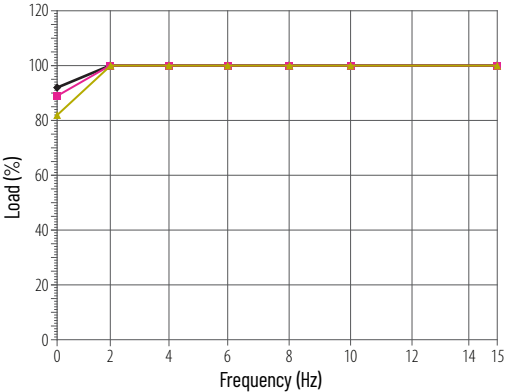
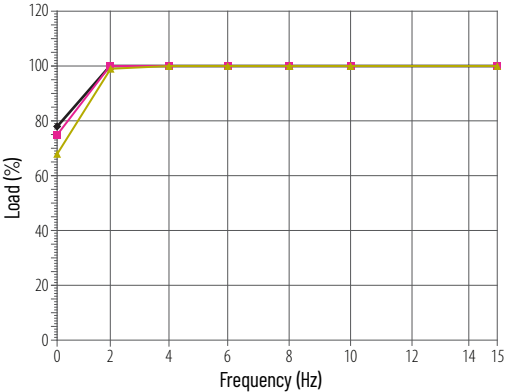
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency					
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz	0.444 kHz 0.666 kHz 1.33 kHz		
C302	8	200	367	160	302	132	260	0	100	100	97			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C367	8	250	460	200	367	160	302	0	88	85	77			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C460	8	315	540	250	460	200	367	0	75	72	66			
								2	100	100	97			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			

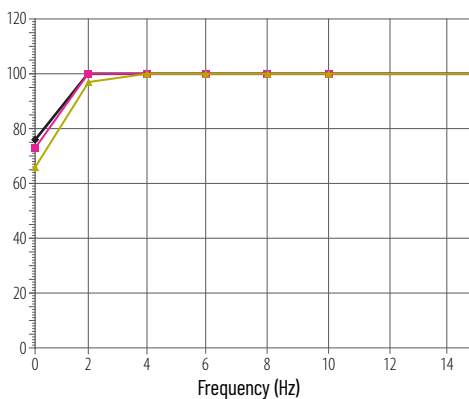
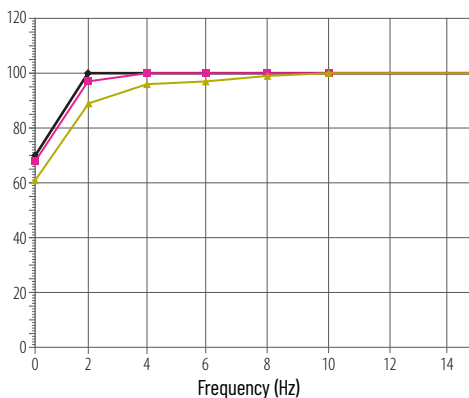
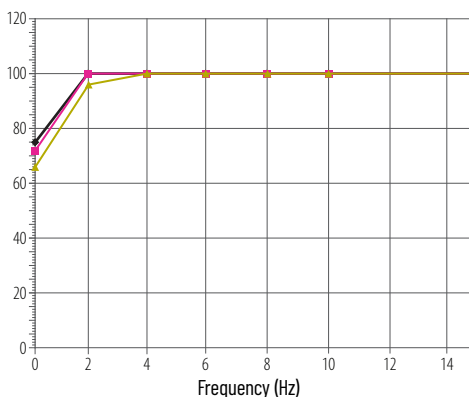
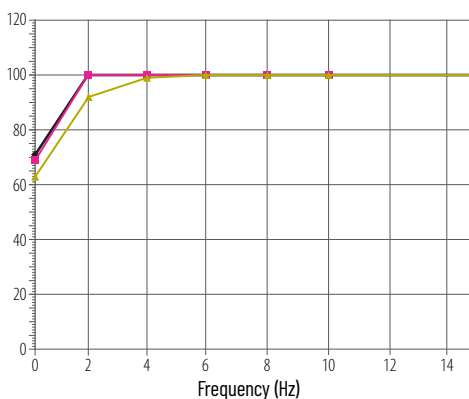
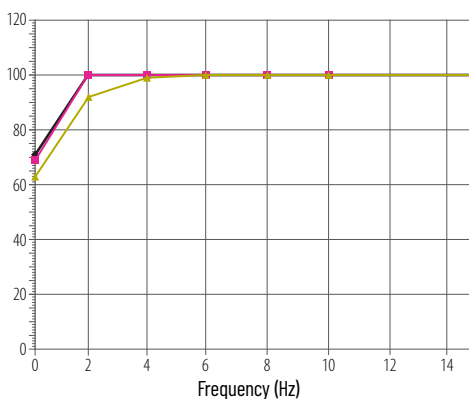
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12										
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz					
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz							
C540	8	315	585	315	540	250	460	0	69	67	61							
								2	99	97	89							
								4	100	100	96							
								6	100	100	98							
								8	100	100	100							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
								30	100	100	100							
								45	100	100	100							
								60	100	100	100							
C585	8	355	650	315	585	250	472	0	82	75	58							
								2	100	100	88							
								4	100	100	95							
								6	100	100	97							
								8	100	100	99							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
								30	100	100	100							
								45	100	100	100							
								60	100	100	100							
C302	8	200	367	160	302	132	260	0	100	100	97							
								2	100	100	100							
								4	100	100	100							
								6	100	100	100							
								8	100	100	100							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
								30	100	100	100							
								45	100	100	100							
								60	100	100	100							
C367	8	250	460	200	367	160	302	0	88	85	77							
								2	100	100	100							
								4	100	100	100							
								6	100	100	100							
								8	100	100	100							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
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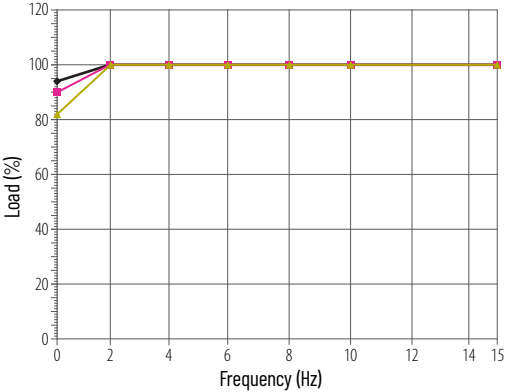
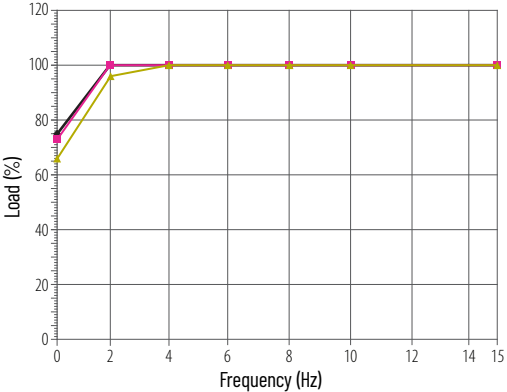
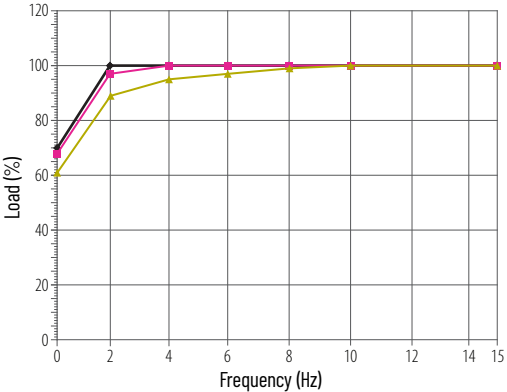
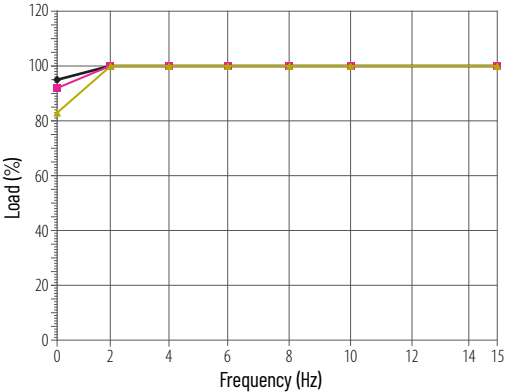
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency					
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz			
C460	8	315	540	250	460	200	367	0	75	72	66			
								2	100	100	97			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C540	8	315	585	315	540	250	460	0	69	67	61			
								2	99	97	89			
								4	100	100	96			
								6	100	100	98			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C585	8	355	650	315	585	250	472	0	94	90	82			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C650	8	400	750	355	650	315	540	0	78	75	68			
								2	100	100	99			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
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								45	100	100	100			
								60	100	100	100			

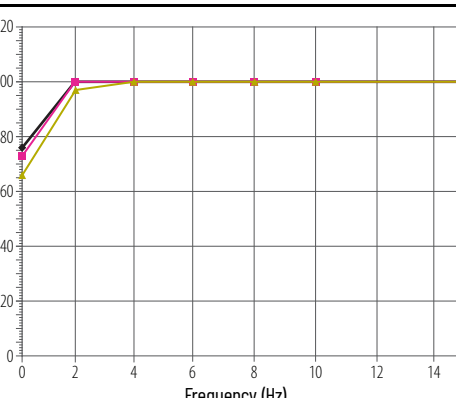
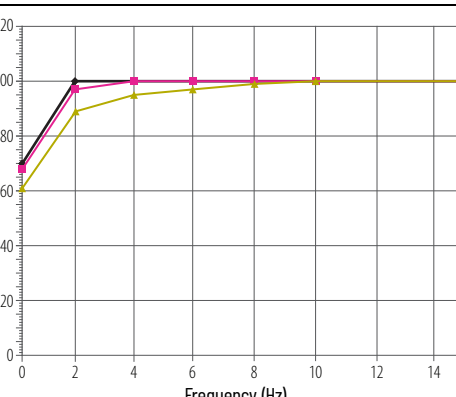
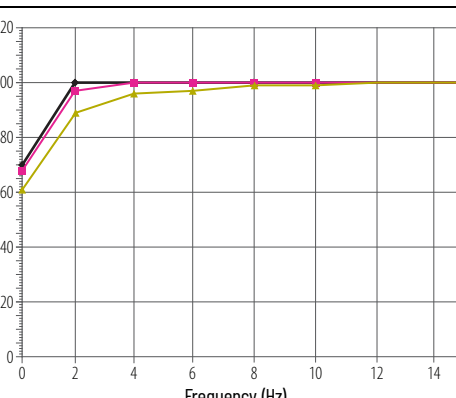
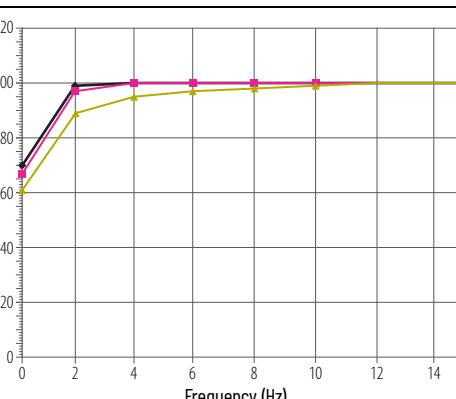
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12										
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 					
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz							
C750	8	450	796	400	750	315	585	0	76	73	66							
								2	100	100	97							
								4	100	100	100							
								6	100	100	100							
								8	100	100	100							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
								30	100	100	100							
								45	100	100	100							
								60	100	100	100							
C770	8	450	832	400	770	355	650	0	70	68	61							
								2	100	97	89							
								4	100	100	96							
								6	100	100	97							
								8	100	100	99							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
								30	100	100	100							
								45	100	100	100							
								60	100	100	100							
C920	9	560	1040	500	920	400	770	0	75	72	66							
								2	100	100	96							
								4	100	100	100							
								6	100	100	100							
								8	100	100	100							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
								30	100	100	100							
								45	100	100	100							
								60	100	100	100							
C1K0	9	630	1090	560	1040	500	920	0	71	69	63							
								2	100	100	92							
								4	100	100	99							
								6	100	100	100							
								8	100	100	100							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
								30	100	100	100							
								45	100	100	100							
								60	100	100	100							

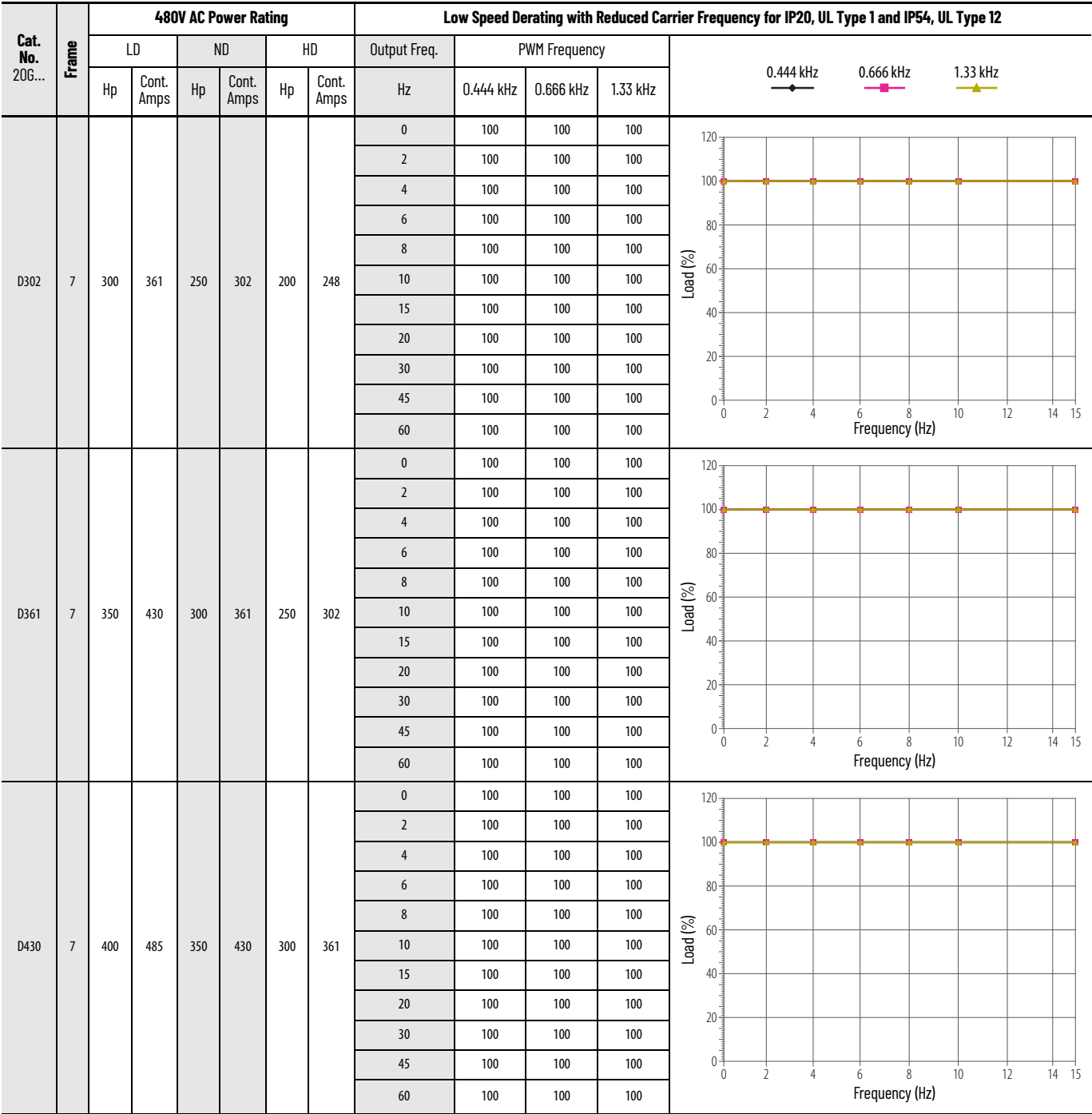
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency					
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz			
C1K1	9	710	1182	630	1112	500	1040	0	94	90	82			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C1K2	9	800	1465	710	1175	560	1090	0	75	73	66			
								2	100	100	96			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C1K4	9	850	1581	800	1463	630	1175	0	70	68	61			
								2	100	97	89			
								4	100	100	95			
								6	100	100	97			
								8	100	100	99			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C1K6	10	1000	1715	850	1590	710	1465	0	95	92	83			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			

Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.		PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 			
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
C1K7	10	1250	2150	1000	1715	800	1480	0	76	73	66						
								2	100	100	97						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
C2K1	10	1400	2330	1250	2156	1000	1715	0	70	68	61						
								2	100	97	89						
								4	100	100	95						
								6	100	100	97						
								8	100	100	99						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
C4K2	13	2475	4576	2200	4235	1953	3575	0	70	68	61						
								2	100	97	89						
								4	100	100	95						
								6	100	100	97						
								8	100	100	99						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
C2K8	11	1800	3078	1650	2849	1400	2330	0	70	68	61						
								2	100	97	89						
								4	100	100	96						
								6	100	100	97						
								8	100	100	99						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
C5K6	14	3285	6074	2920	5621	2592	4745	0	70	68	61						
								2	100	97	89						
								4	100	100	96						
								6	100	100	97						
								8	100	100	99						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
C3K5	12	2200	3846	2000	3542	1650	3032	0	70	67	61						
								2	99	97	89						
								4	100	100	95						
								6	100	100	97						
								8	100	100	98						
								10	100	100	99						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
C7K0	15	4095	7571	3640	7007	3231	5915	0	70	67	61						
								2	99	97	89						
								4	100	100	95						
								6	100	100	97						
								8	100	100	98						
								10	100	100	99						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

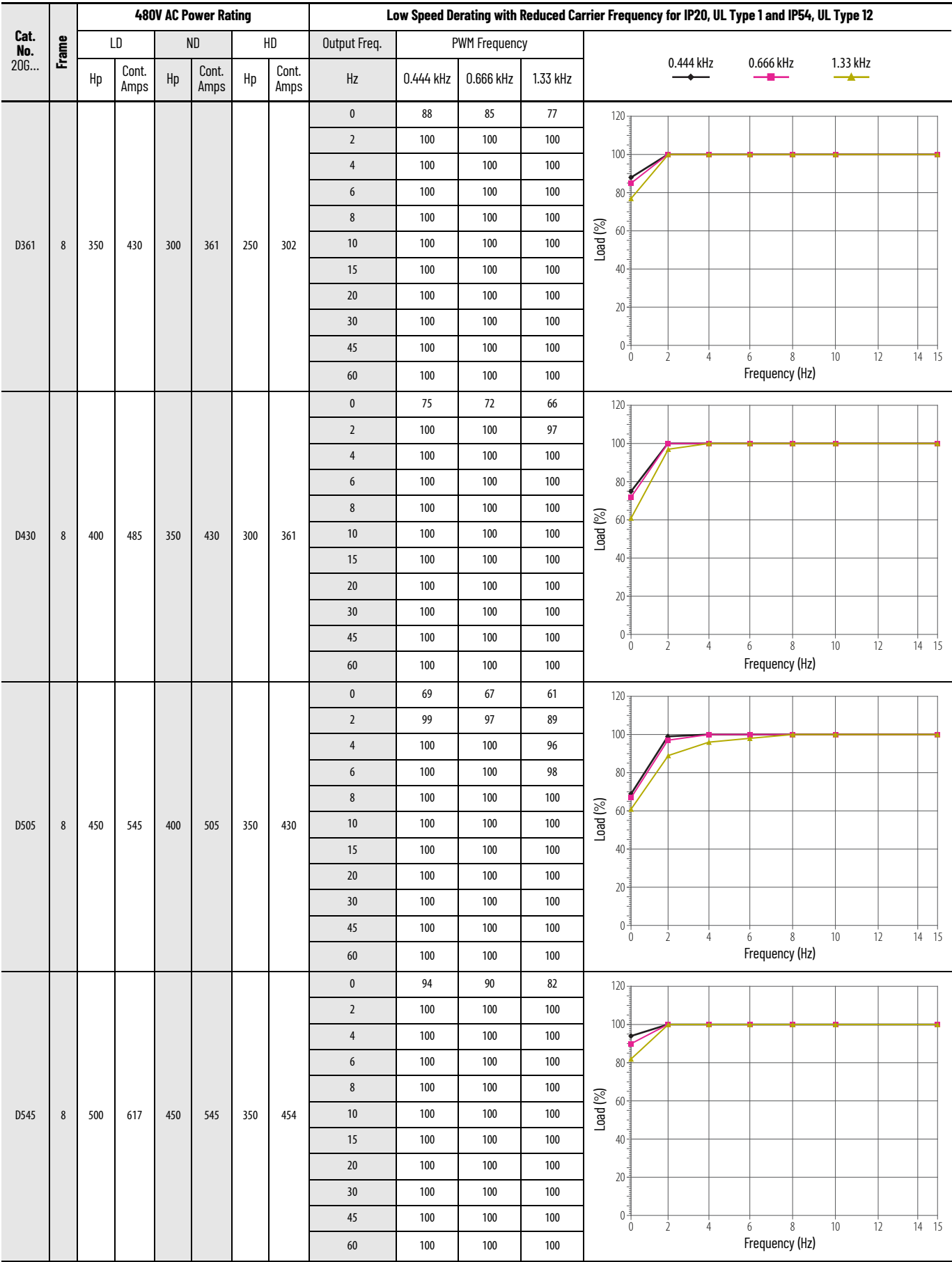
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—480V AC



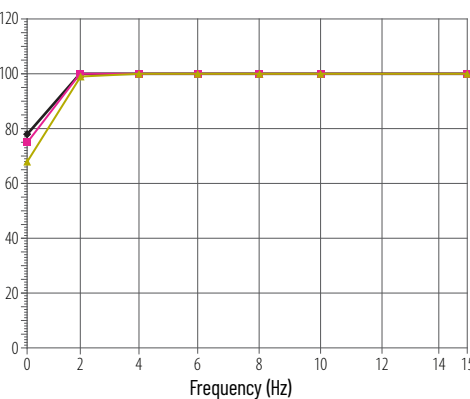
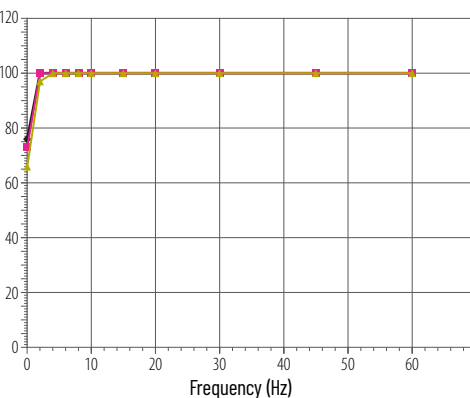
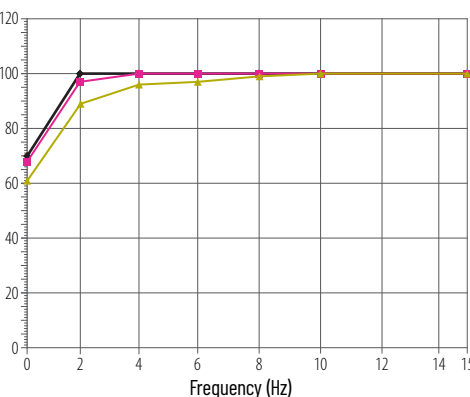
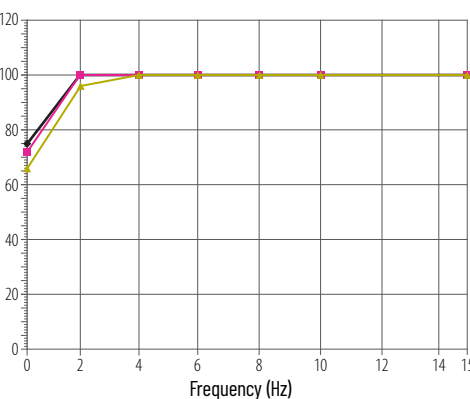
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—480V AC (Continued)

Cat. No. 20G...	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
D505	7	450	545	400	505	350	430	0	100	99	90						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
D617	7	500	617	500	600	400	500	0	91	88	79						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
D650	7L	600	650	600	650	400	400	0	100	100	92						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
D302	8	300	361	250	302	200	248	0	100	100	97						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
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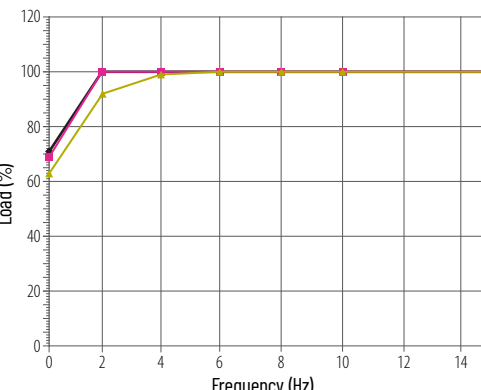
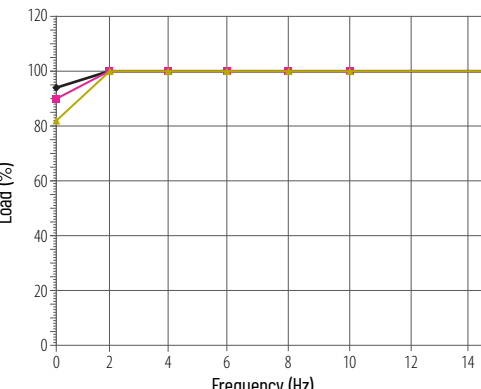
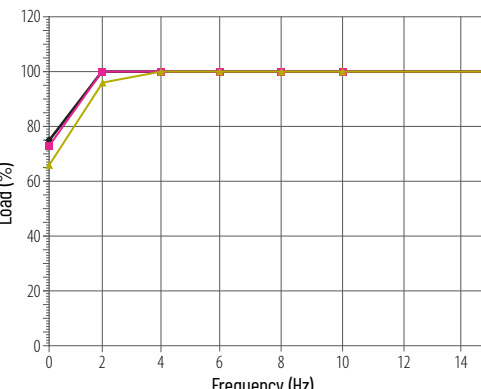
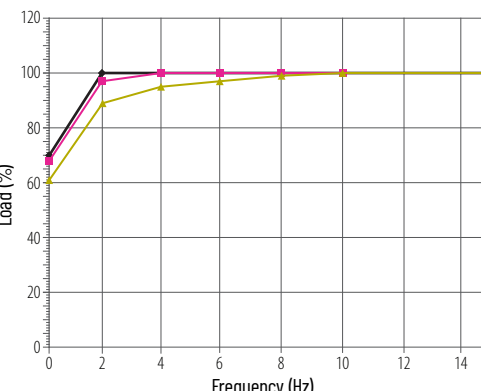
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—480V AC (Continued)



Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—480V AC (Continued)

Cat. No. 20G...	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz	
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz			
D617	8	600	710	500	617	400	485	0	78	75	68			
								2	100	100	99			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
D710	8	650	765	600	710	450	545	0	76	73	66			
								2	100	100	97			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
D740	8	700	800	650	740	500	617	0	70	68	61			
								2	100	97	89			
								4	100	100	96			
								6	100	100	97			
								8	100	100	99			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
D800	9	800	960	700	800	600	740	0	75	72	66			
								2	100	100	96			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			

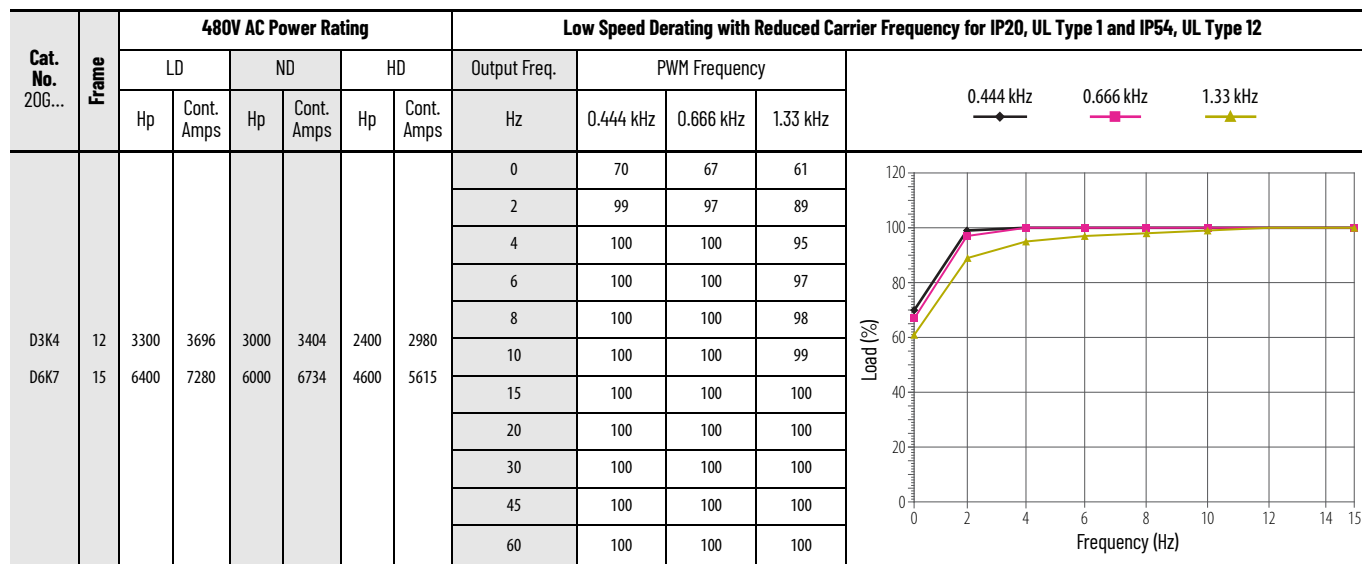
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—480V AC (Continued)

Cat. No. 20G...	Frame	480V AC Power Rating					Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz		
D960	9	900	1045	800	960	700	800	0	71	69	63		
								2	100	100	92		
								4	100	100	99		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
D1K0	9	1000	1135	900	1045	750	960	0	94	90	82		
								2	100	100	100		
								4	100	100	100		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
D1K1	9	1100	1365	1000	1135	800	1045	0	75	73	66		
								2	100	100	96		
								4	100	100	100		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
D1K3	9	1250	1520	1100	1365	900	1135	0	70	68	61		
								2	100	97	89		
								4	100	100	95		
								6	100	100	97		
								8	100	100	99		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		

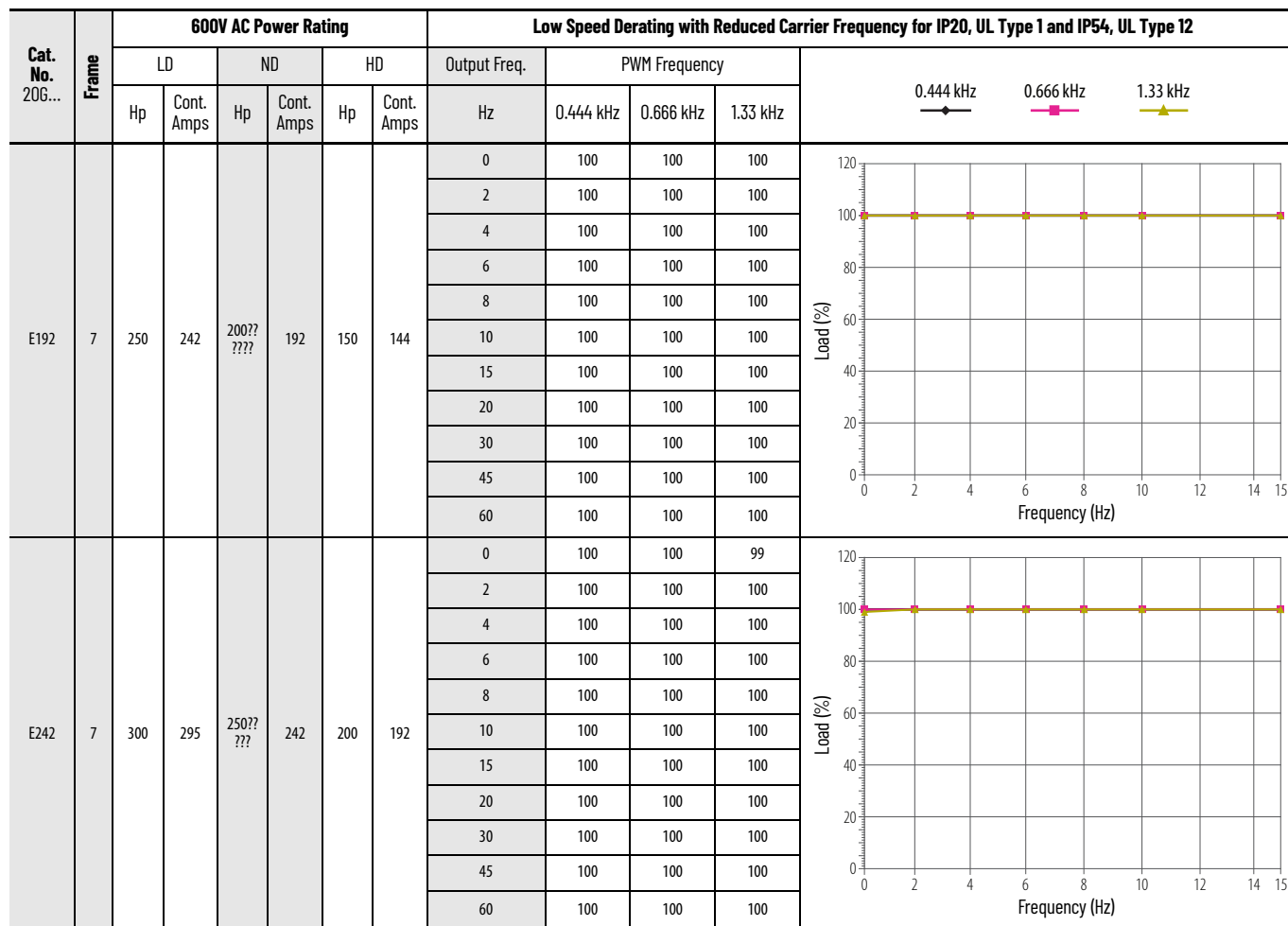
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—480V AC (Continued)

Cat. No. 20G...	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
D1K4	10	1500	1655	1250	1420	1000	1365	0	95	92	83						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
D1K6	10	1800	2070	1500	1655	1100	1420	0	76	73	66						
								2	100	100	97						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
D2K0 D4K0	10	2000	2240	1800	2072	1500	1655	0	70	68	61						
								2	100	97	89						
								4	100	100	95						
								6	100	100	97						
								8	100	100	99						
	13	3900	4400	3600	4070	2800	3394	10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
D2K6 D5K4	11	2600	2960	2400	2738	2000	2240	0	70	68	61						
								2	100	97	89						
								4	100	100	96						
								6	100	100	97						
								8	100	100	99						
	14	5200	5840	4800	5402	3700	4504	10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

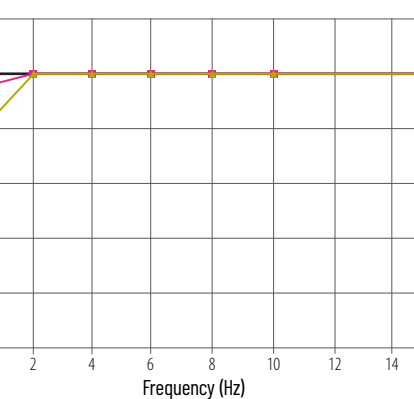
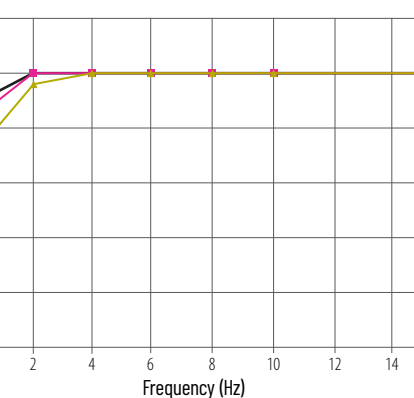
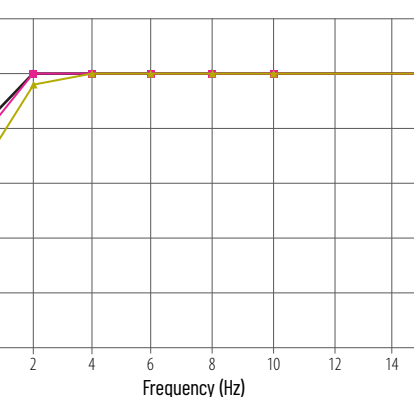
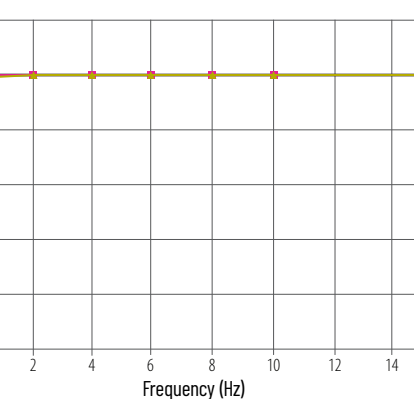
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—480V AC (Continued)



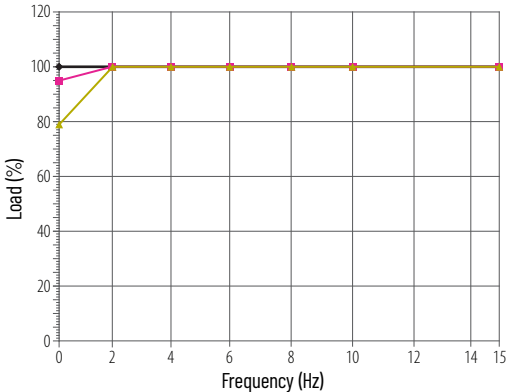
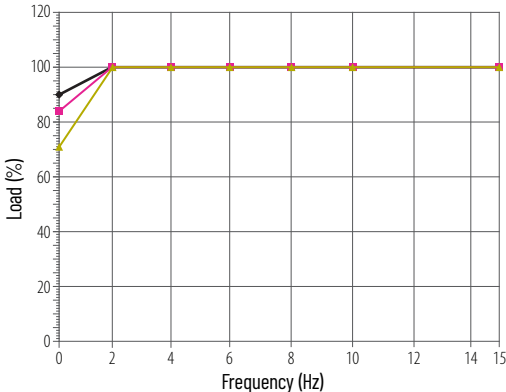
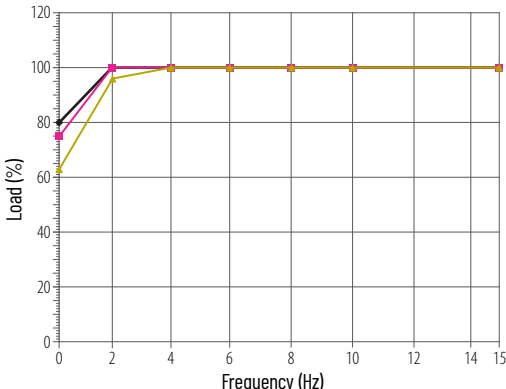
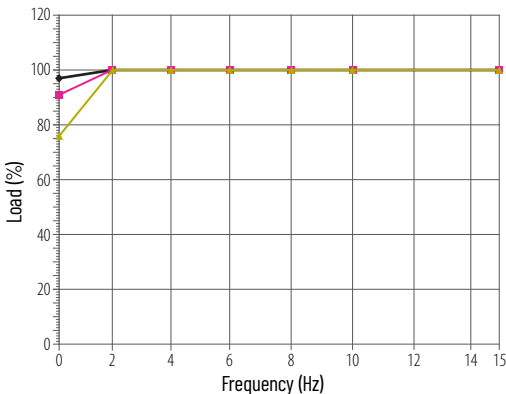
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—600V AC



Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—600V AC (Continued)

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
E295	7	350	355	300?? ???	295	250	242	0	100	95	79						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
E355	7	400	395	350	355	300	295	0	90	85	73						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
E395	7	450	435	400	395	350	355	0	80	76	65						
								2	100	100	95						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
E242	8	300	295	250	242	200	192	0	100	100	99						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

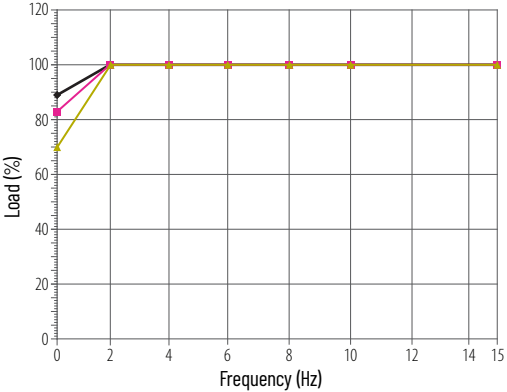
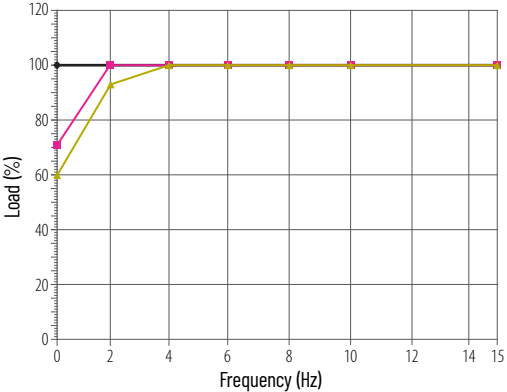
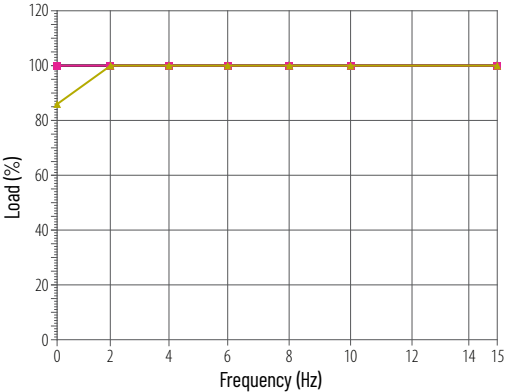
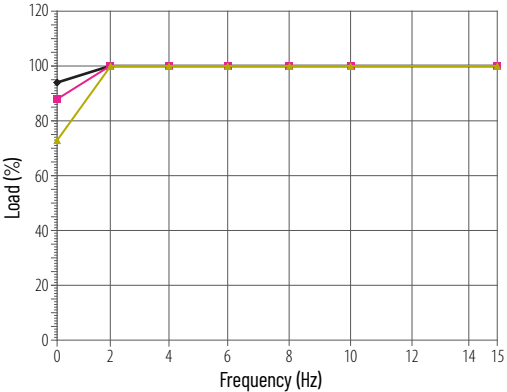
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type–600V AC (Continued)

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 	
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz			
E295	8	350	355	300	295	250	242	0	100	95	79			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
E355	8	400	395	350	355	300	295	0	90	84	71			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
E395	8	450	435	400	395	350	355	0	80	75	63			
								2	100	100	96			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
C435????	8	500	510	450	435	400	395	0	97	91	76			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			

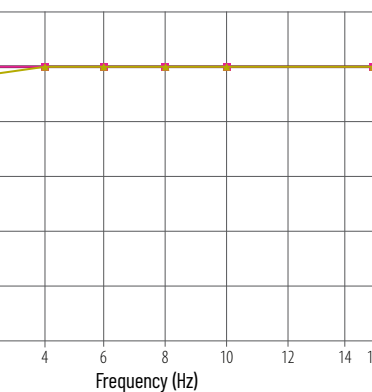
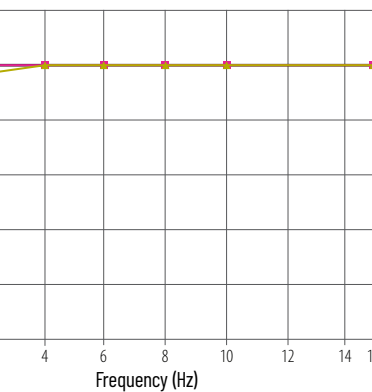
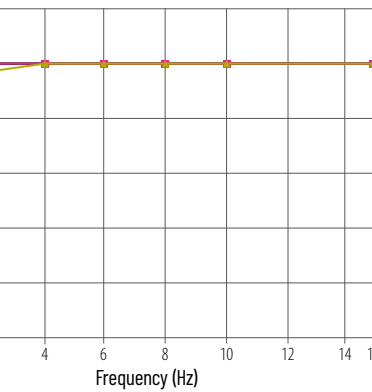
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—600V AC (Continued)

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
E545	8	600	580	550	545	450	450	0	79	74	62						
								2	100	100	97						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
E595	9	700	690	600	580	550	545	0	100	100	83						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
E690	9	800	760	700	690	600	595	0	92	83	64						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
E760	9	900	825	800	760	700	690	0	100	100	86						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

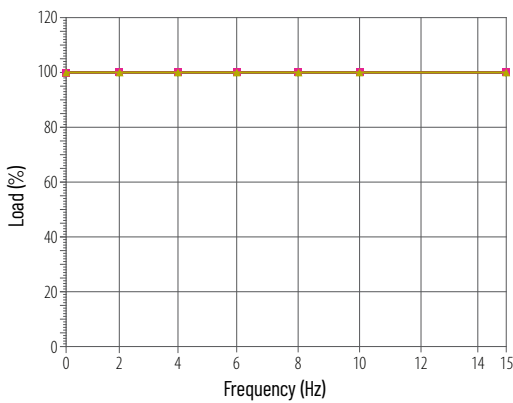
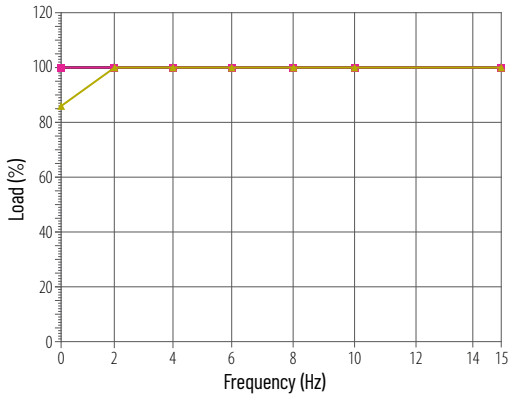
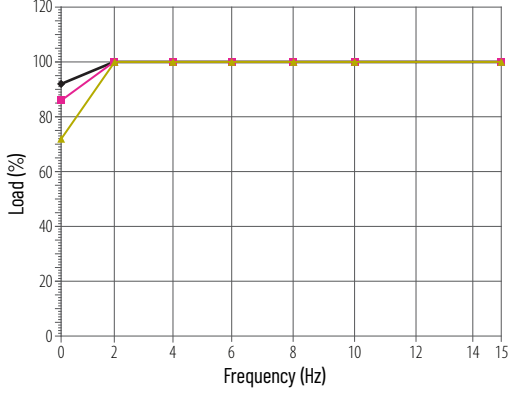
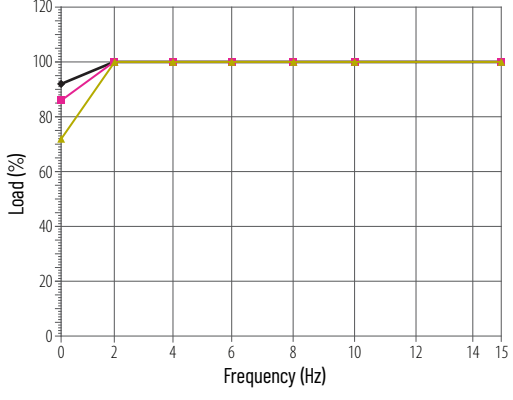
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type–600V AC (Continued)

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency					
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz			
E825	9	1000	980	900	825	800	760	0	89	83	70			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
E980	9	1100	1102	1000	980	900	825	0	76	71	60			
								2	100	100	93			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
E1K1	10	1250	1220	1100	1045	1000	980	0	100	100	86			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
E1K2	10	1500	1430	1250	1220	1100	1045	0	94	88	73			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			

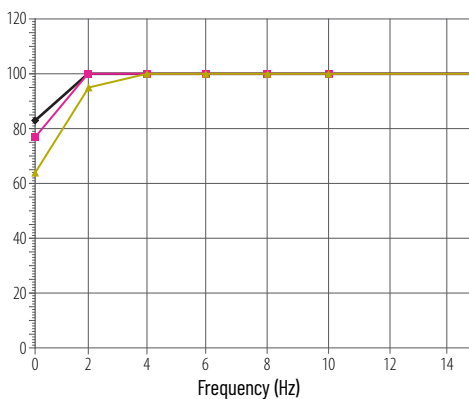
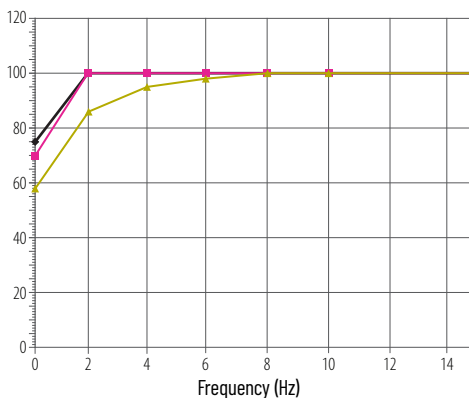
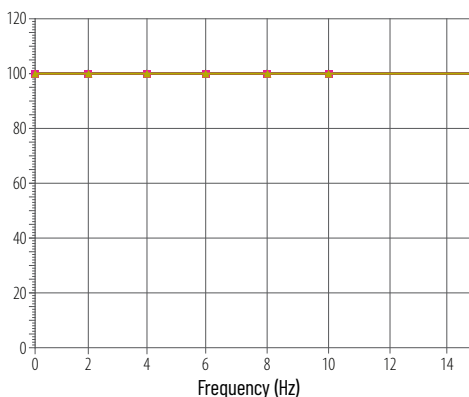
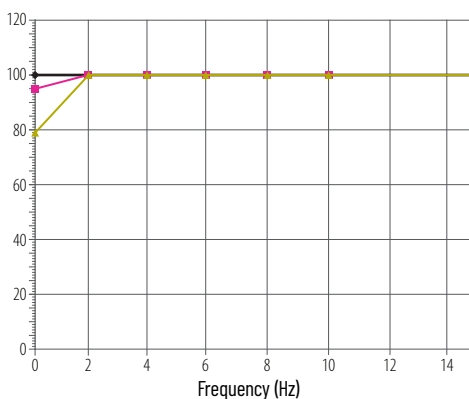
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—600V AC (Continued)

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
E1K5 E2K9	10	1600	1624	1500	1430	1250	1220	0	80	75	62						
	13	3300	3190	3100	2998	2500	2475	2	100	100	97						
		4	100	100	100												
		6	100	100	100												
		8	100	100	100												
		10	100	100	100												
		15	100	100	100												
		20	100	100	100												
		30	100	100	100												
		45	100	100	100												
		60	100	100	100												
E2K0 E3K9	11	2100	2146	2000	1946	1800	1700	0	79	74	62						
	14	4400	4234	4100	3979	3300	3285	2	100	100	97						
		4	100	100	100												
		6	100	100	100												
		8	100	100	100												
		10	100	100	100												
		15	100	100	100												
		20	100	100	100												
		30	100	100	100												
		45	100	100	100												
		60	100	100	100												
E2K4 E4K9	12	2600	2668	2500	2420	2100	2070	0	79	74	62						
	15	5500	5278	5100	4960	4100	4095	2	100	100	97						
		4	100	100	100												
		6	100	100	100												
		8	100	100	100												
		10	100	100	100												
		15	100	100	100												
		20	100	100	100												
		30	100	100	100												
		45	100	100	100												
		60	100	100	100												

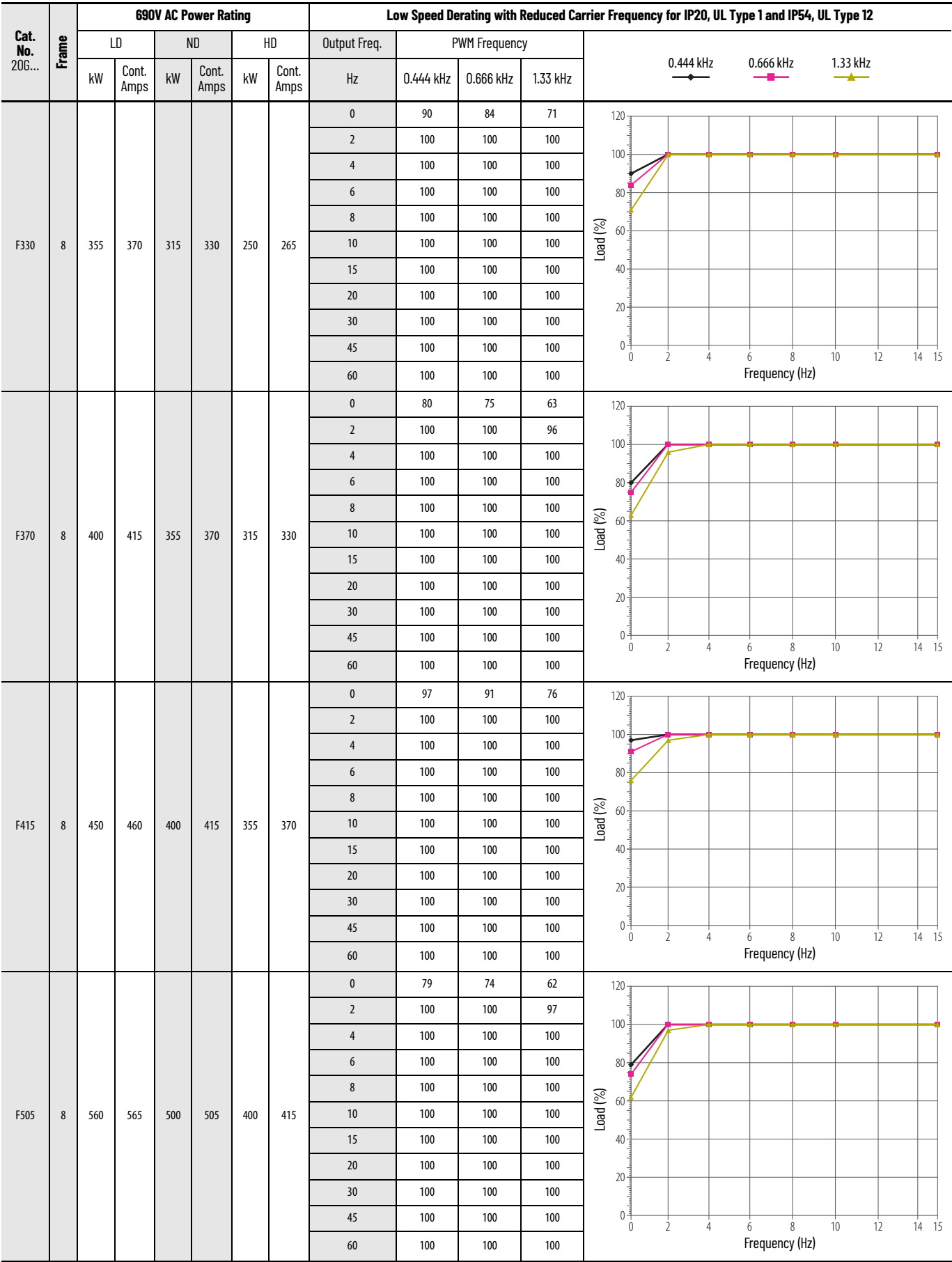
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type–690V AC

Cat. No. 20G...	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12															
		LD		ND		HD		Output Freq.		PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 									
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz												
F171	7	200	215	160	171	132	142	0	100	100	100												
								2	100	100	100												
								4	100	100	100												
								6	100	100	100												
								8	100	100	100												
								10	100	100	100												
								15	100	100	100												
								20	100	100	100												
								30	100	100	100												
								45	100	100	100												
								60	100	100	100												
F215	7	250	265	200	215	160	171	0	100	100	86												
								2	100	100	100												
								4	100	100	100												
								6	100	100	100												
								8	100	100	100												
								10	100	100	100												
								15	100	100	100												
								20	100	100	100												
								30	100	100	100												
								45	100	100	100												
								60	100	100	100												
F265	7	315	330	250	265	200	215	0	92	86	72												
								2	100	100	100												
								4	100	100	100												
								6	100	100	100												
								8	100	100	100												
								10	100	100	100												
								15	100	100	100												
								20	100	100	100												
								30	100	100	100												
								45	100	100	100												
								60	100	100	100												

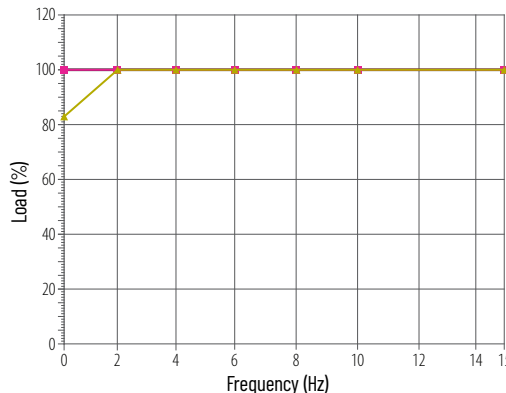
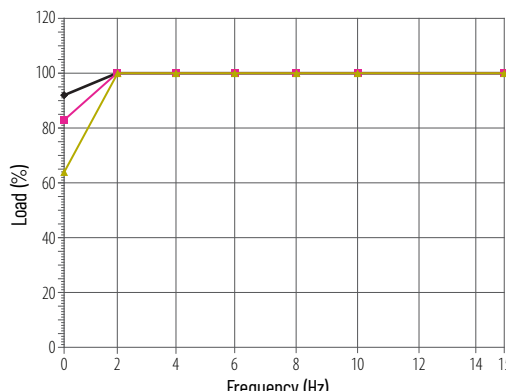
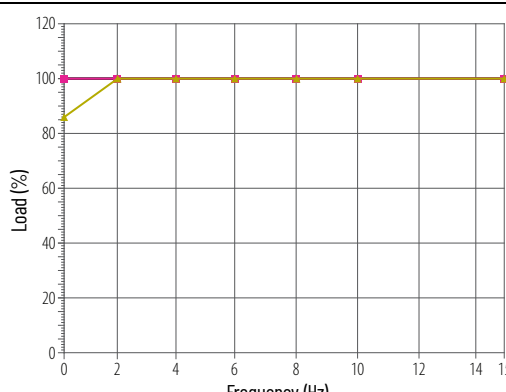
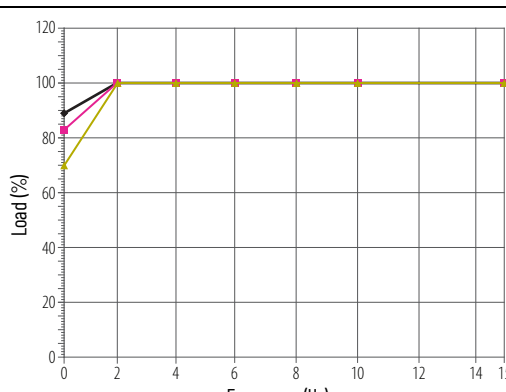
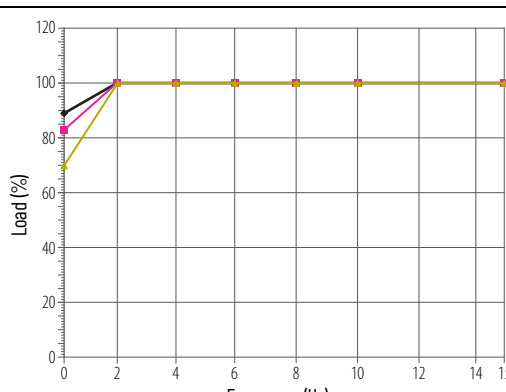
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—690V AC

Cat. No. 20G...	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 				
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
F330	7	355	370	315	330	250	265	0	83	77	64						
								2	100	100	95						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
F370	7	400	415	355	370	315	330	0	75	70	58						
								2	100	100	86						
								4	100	100	95						
								6	100	100	98						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
F215	8	250	265	200	215	160	171	0	100	100	99						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
F265	8	315	330	250	265	200	215	0	100	95	79						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

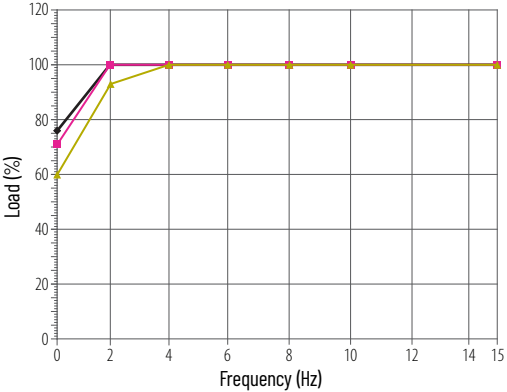
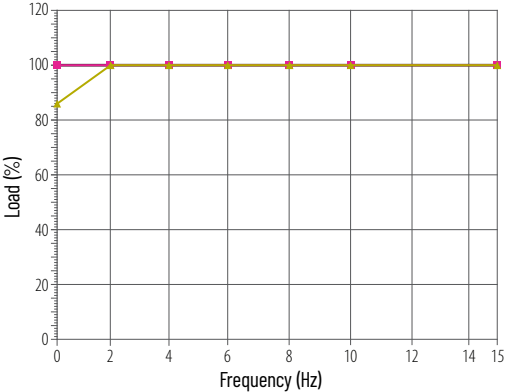
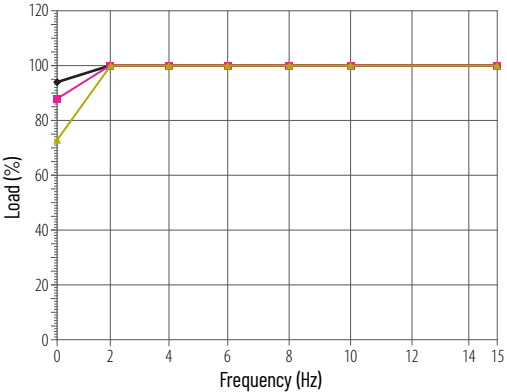
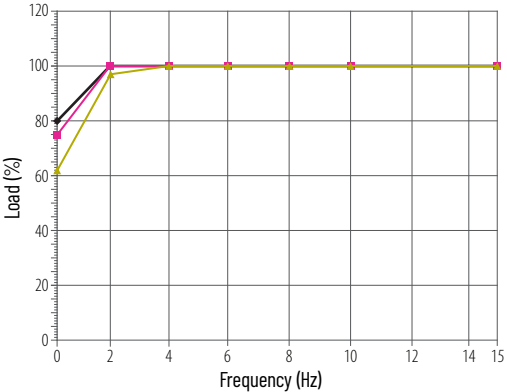
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—690V AC



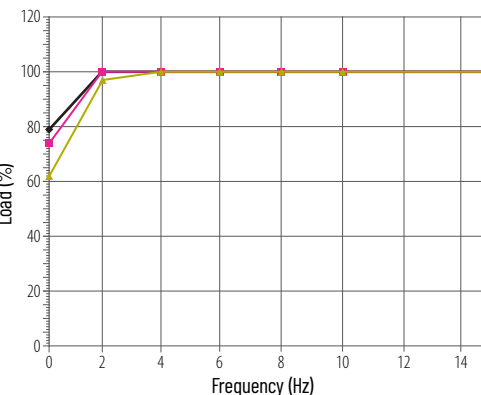
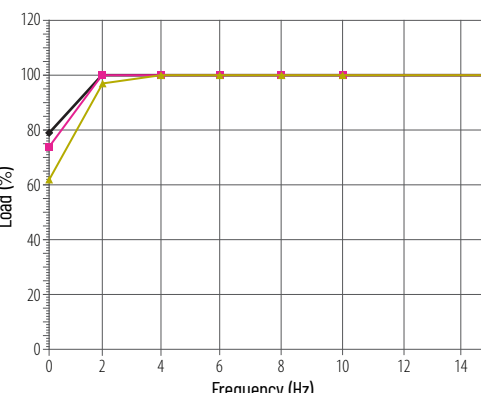
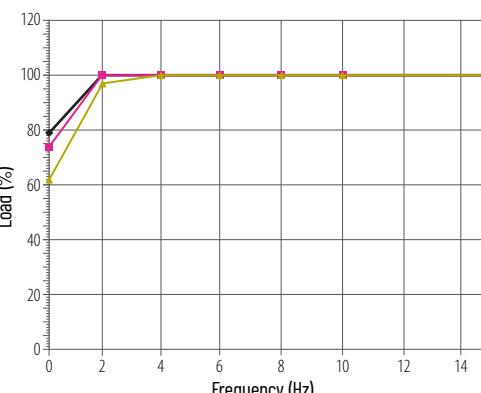
Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—690V AC

Cat. No. 20G...	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.	PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 				
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
F565	9	630	650	560	565	500	505	0	100	100	83						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
F650	9	710	735	630	650	560	565	0	92	83	64						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
F735	9	800	820	710	735	630	650	0	100	100	86						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
F820	9	900	920	800	820	710	735	0	89	83	70						
								2	100	100	100						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—690V AC

Cat. No. 20G...	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency					
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz			
F920	9	1000	1074	900	920	800	820	0	76	71	60			
								2	100	100	93			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
F1K0	10	1100	1150	1000	1030	900	920	0	100	100	86			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
F1K1	10	1250	1344	1100	1150	1000	1030	0	94	88	73			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
F1K4 F2K7	10	1500	1582	1400	1419	1100	1162	0	80	75	62			
								2	100	100	97			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
	13	3080	3108	2750	2778	2200	2283	10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			

Low Speed Derating with Reduced Carrier Frequency for IP00, UL Open Type—690V AC

Cat. No. 20G...	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.		PWM Frequency				0.444 kHz 0.666 kHz 1.33 kHz 			
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz						
F1K8 F3K6	11	2000	2091	1800	1865	1500	1535	0	79	74	62						
	14	4088	4125	3650	3687	2920	3030	2	100	100	97						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						
F2K3 F4K5	12	2500	2599	2300	2318	2000	2020	0	79	74	62						
	15	5096	5142	4550	4596	3640	3777	2	100	100	97						
								4	100	100	100						
								6	100	100	100						
								8	100	100	100						
								10	100	100	100						
								15	100	100	100						
								20	100	100	100						
								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

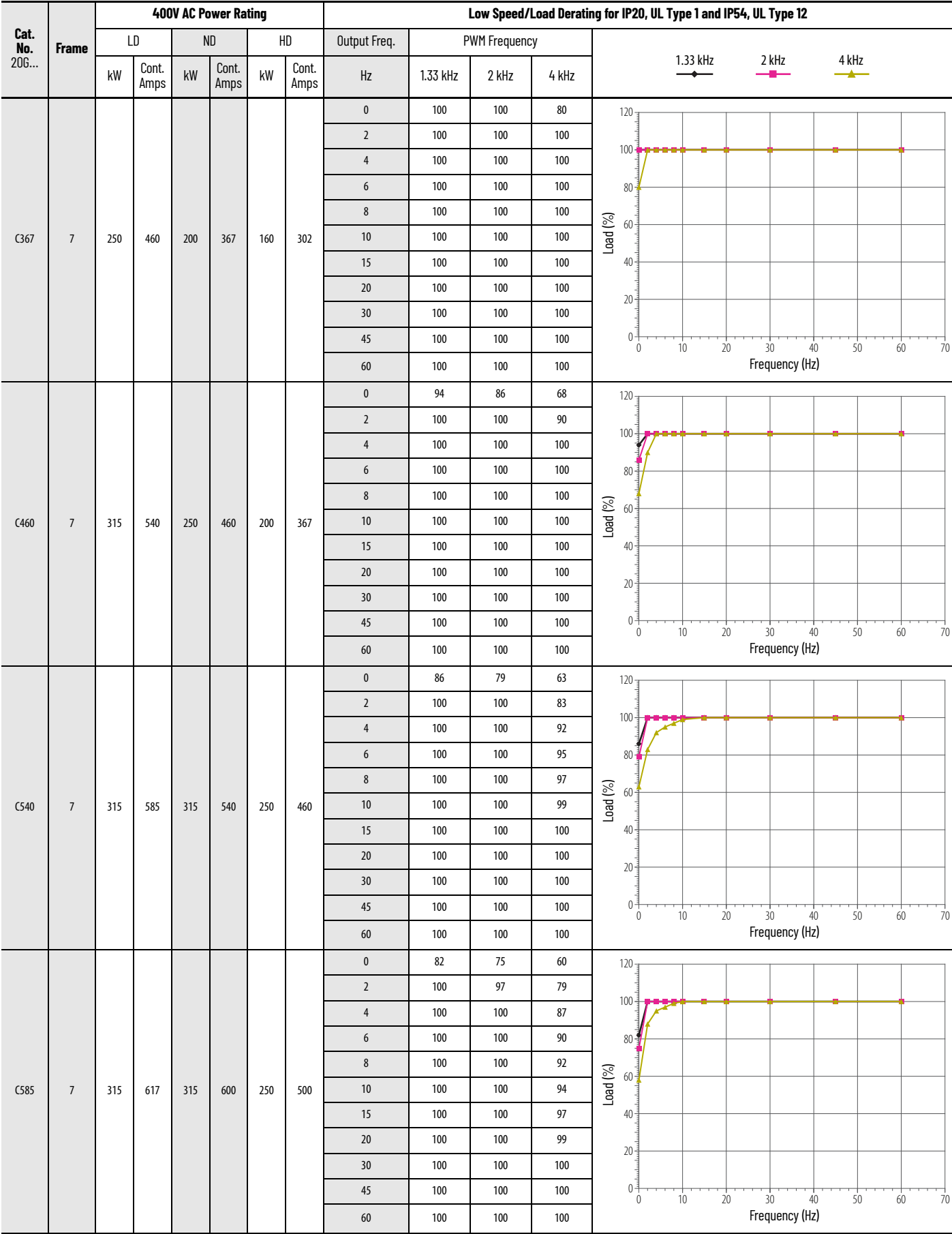
Low Speed Derating

The following graphs show the carrier frequency deratings for motor side inverters. If a catalog number is not shown, that drive can be operated without derating as long as the limits specified on page 179 are followed.

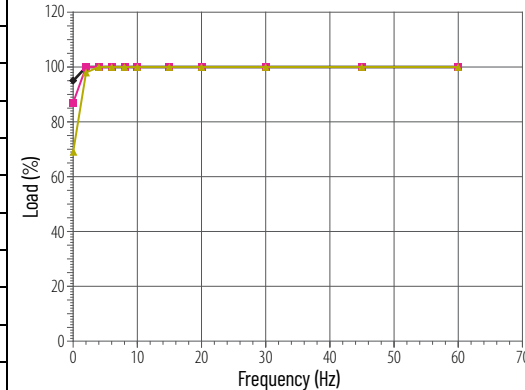
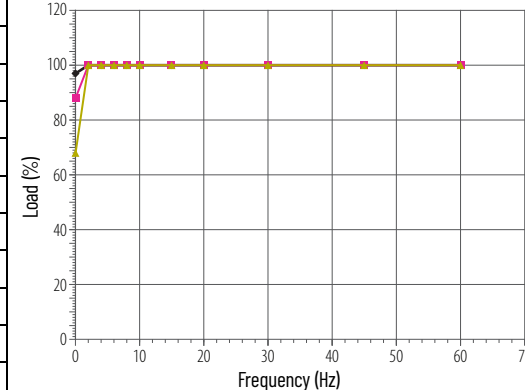
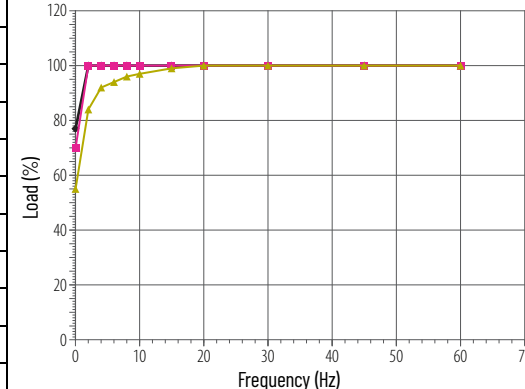
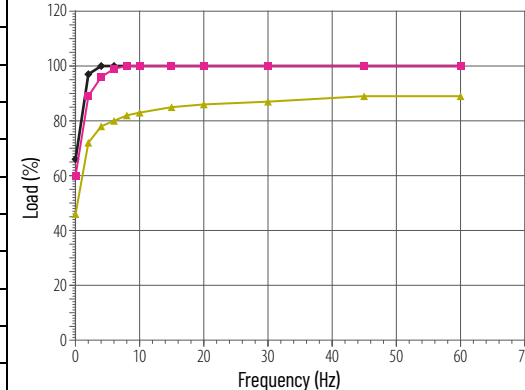
Low Speed/Load Derating for IP00, UL Open Type—400V AC

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					
		LD		ND		HD		Output Freq.		PWM Frequency			1.33 kHz 2 kHz 4 kHz
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
C302	7	200	367	160	302	132	260	0	100	100	100		
								2	100	100	100		
								4	100	100	100		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		

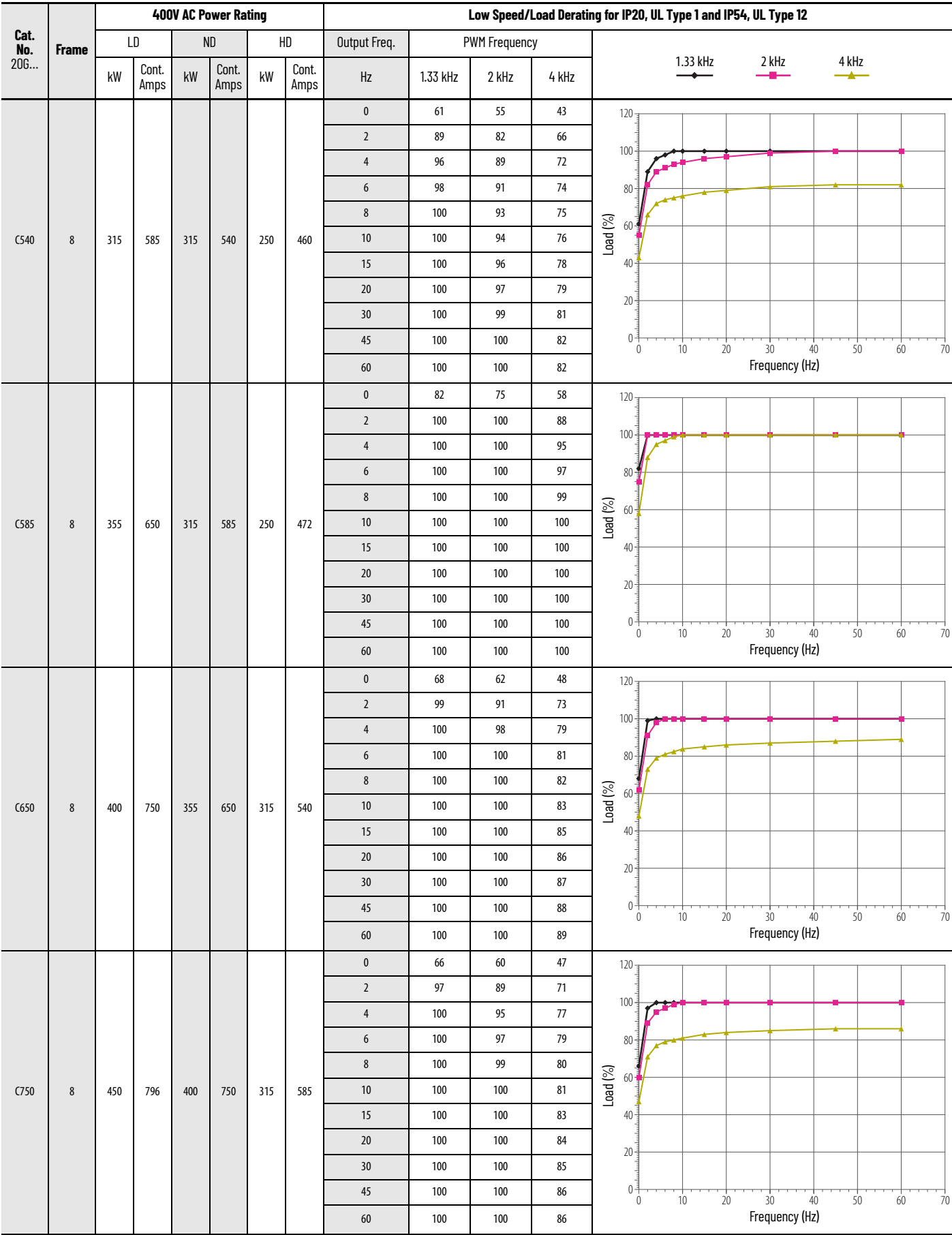
Low Speed/Load Derating for IP00, UL Open Type—400V AC (Continued)



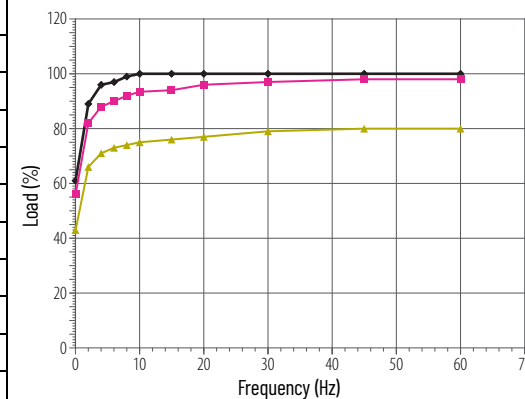
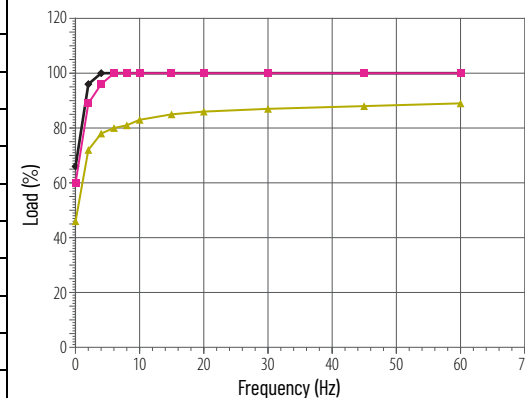
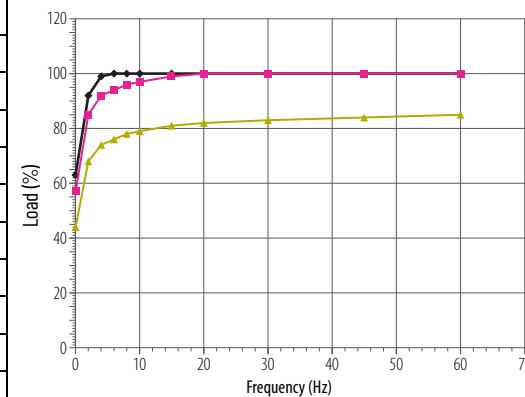
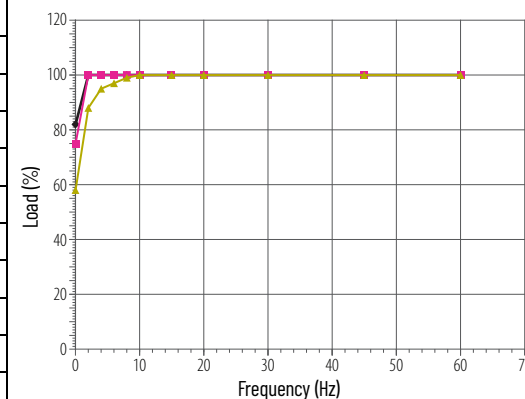
Low Speed/Load Derating for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					1.33 kHz 2 kHz 4 kHz
		LD		ND		HD		Output Freq.	PWM Frequency				
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
C650	7L	355	650	355	650	250	477	0	95	87	69		
								2	100	100	99		
								4	100	100	100		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
C302	8	200	367	160	302	132	260	0	97	88	68		
								2	100	100	100		
								4	100	100	100		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
C367	8	250	460	200	367	160	302	0	77	70	55		
								2	100	100	84		
								4	100	100	92		
								6	100	100	94		
								8	100	100	96		
								10	100	100	97		
								15	100	100	99		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
C460	8	315	540	250	460	200	367	0	66	60	46		
								2	97	89	72		
								4	100	96	78		
								6	100	99	80		
								8	100	100	82		
								10	100	100	83		
								15	100	100	85		
								20	100	100	86		
								30	100	100	87		
								45	100	100	89		
								60	100	100	89		

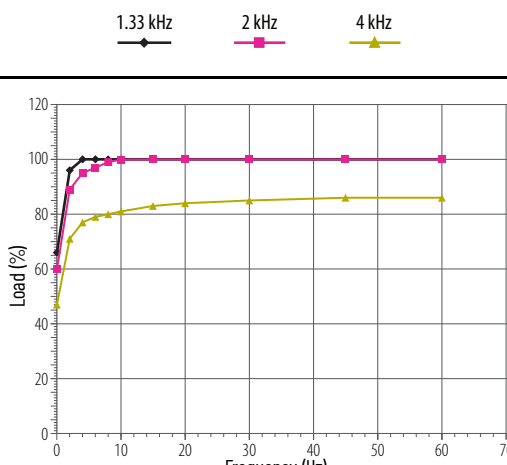
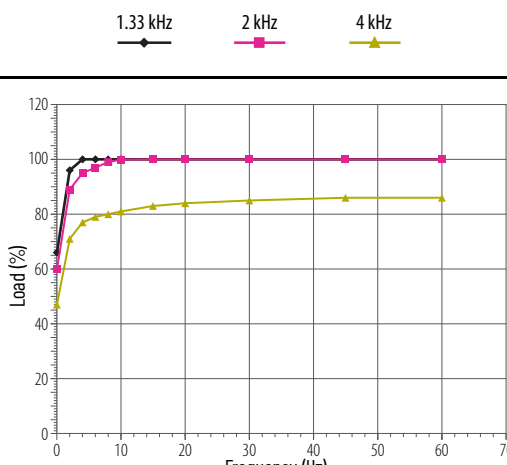
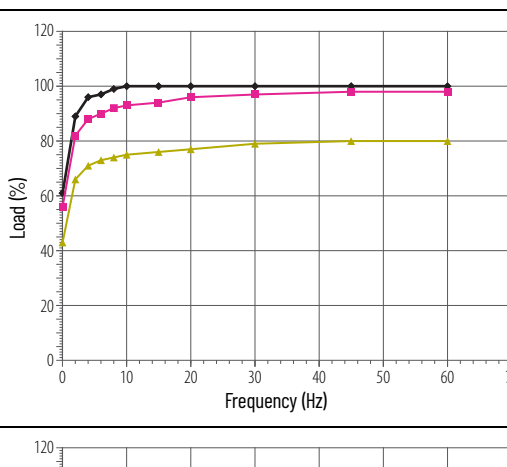
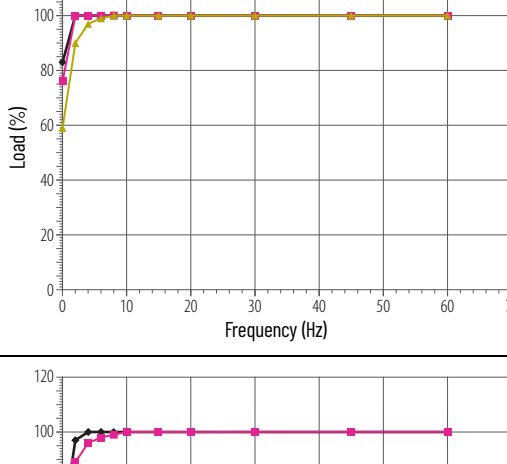
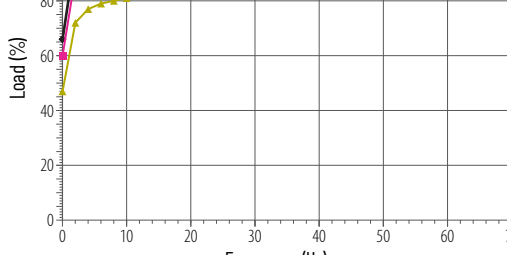
Low Speed/Load Derating for IP00, UL Open Type—400V AC (Continued)



Low Speed/Load Derating for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12									
		LD		ND		HD		Output Freq.		PWM Frequency				1.33 kHz 2 kHz 4 kHz 			
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz						
C770	8	450	832	400	770	355	650	0	61	56	43						
								2	89	82	66						
								4	96	88	71						
								6	97	90	73						
								8	99	92	74						
								10	100	93	75						
								15	100	94	76						
								20	100	96	77						
								30	100	97	79						
								45	100	98	80						
								60	100	98	80						
C920	9	560	1040	500	920	400	770	0	66	60	46						
								2	96	89	72						
								4	100	96	78						
								6	100	99	80						
								8	100	100	81						
								10	100	100	83						
								15	100	100	85						
								20	100	100	86						
								30	100	100	87						
								45	100	100	88						
								60	100	100	89						
C1K0	9	630	1090	560	1040	500	920	0	63	57	44						
								2	92	85	68						
								4	99	92	74						
								6	100	94	76						
								8	100	96	78						
								10	100	97	79						
								15	100	99	81						
								20	100	100	82						
								30	100	100	83						
								45	100	100	84						
								60	100	100	85						
C1K1	9	710	1182	630	1112	500	1040	0	82	75	58						
								2	100	100	88						
								4	100	100	95						
								6	100	100	97						
								8	100	100	99						
								10	100	100	100						
								15	100	100	100						
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								30	100	100	100						
								45	100	100	100						
								60	100	100	100						

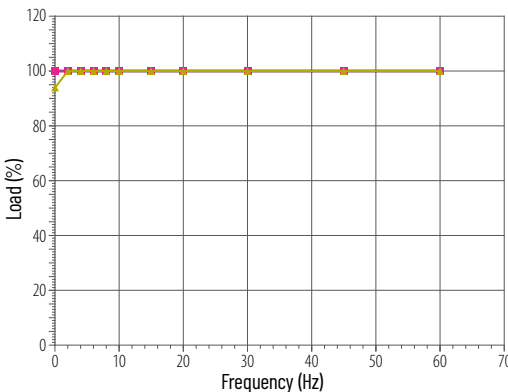
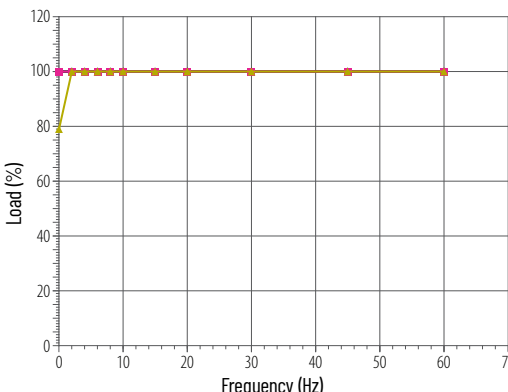
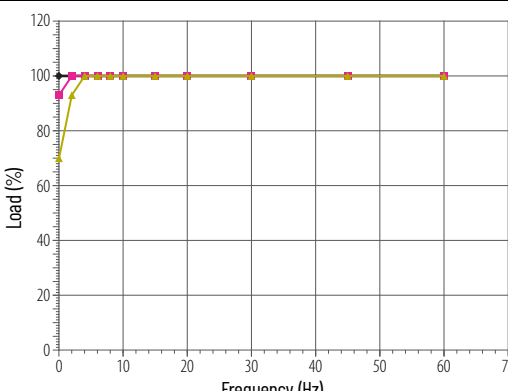
Low Speed/Load Derating for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12										
		LD		ND		HD		Output Freq.	PWM Frequency				1.33 kHz 2 kHz 4 kHz 					
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz							
C1K2	9	800	1465	710	1175	560	1090	0	66	60	47							
								2	96	89	71							
								4	100	95	77							
								6	100	97	79							
								8	100	99	80							
								10	100	100	81							
								15	100	100	83							
								20	100	100	84							
								30	100	100	85							
								45	100	100	86							
								60	100	100	86							
C1K4	9	850	1581	800	1463	630	1175	0	61	56	43							
								2	89	82	66							
								4	96	88	71							
								6	97	90	73							
								8	99	92	74							
								10	100	93	75							
								15	100	94	76							
								20	100	96	77							
								30	100	97	79							
								45	100	98	80							
								60	100	98	80							
C1K6	10	1000	1715	850	1590	710	1465	0	83	76	59							
								2	100	100	90							
								4	100	100	97							
								6	100	100	99							
								8	100	100	100							
								10	100	100	100							
								15	100	100	100							
								20	100	100	100							
								30	100	100	100							
								45	100	100	100							
								60	100	100	100							
C1K7	10	1250	2150	1000	1715	800	1480	0	66	60	47							
								2	97	89	72							
								4	100	96	77							
								6	100	98	79							
								8	100	99	80							
								10	100	100	81							
								15	100	100	83							
								20	100	100	84							
								30	100	100	85							
								45	100	100	86							
								60	100	100	87							

Low Speed/Load Derating for IP00, UL Open Type—400V AC (Continued)

Cat. No. 20G...	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12										
		LD		ND		HD		Output Freq.		PWM Frequency				1.33 kHz 2 kHz 4 kHz				
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz	Load (%)						
C2K1 C4K2	10	1400	2330	1250	2156	1000	1715	0	61	56	43							
	13	2475	4576	2200	4235	1953	3575	2	89	82	66							
	4	96	88	71														
	6	97	90	73														
	8	99	92	74														
	10	100	93	75														
	15	100	94	76														
	20	100	96	77														
	30	100	97	79														
	45	100	98	80														
	60	100	98	80														
C2K8 C5K6	11	1800	3078	1650	2849	1400	2330	0	61	56	43							
	14	3285	6074	2920	5621	2592	4745	2	89	82	66							
	4	96	88	71														
	6	97	90	73														
	8	99	92	74														
	10	100	93	75														
	15	100	94	76														
	20	100	96	78														
	30	100	97	79														
	45	100	98	80														
	60	100	98	80														
C3K5 C7K0	12	2200	3846	2000	3542	1650	3032	0	61	55	43							
	15	4095	7571	3640	7007	3231	5915	2	89	82	66							
	4	95	88	71														
	6	97	90	72														
	8	98	91	74														
	10	99	92	75														
	15	100	94	76														
	20	100	95	77														
	30	100	96	78														
	45	100	97	79														
	60	100	98	80														

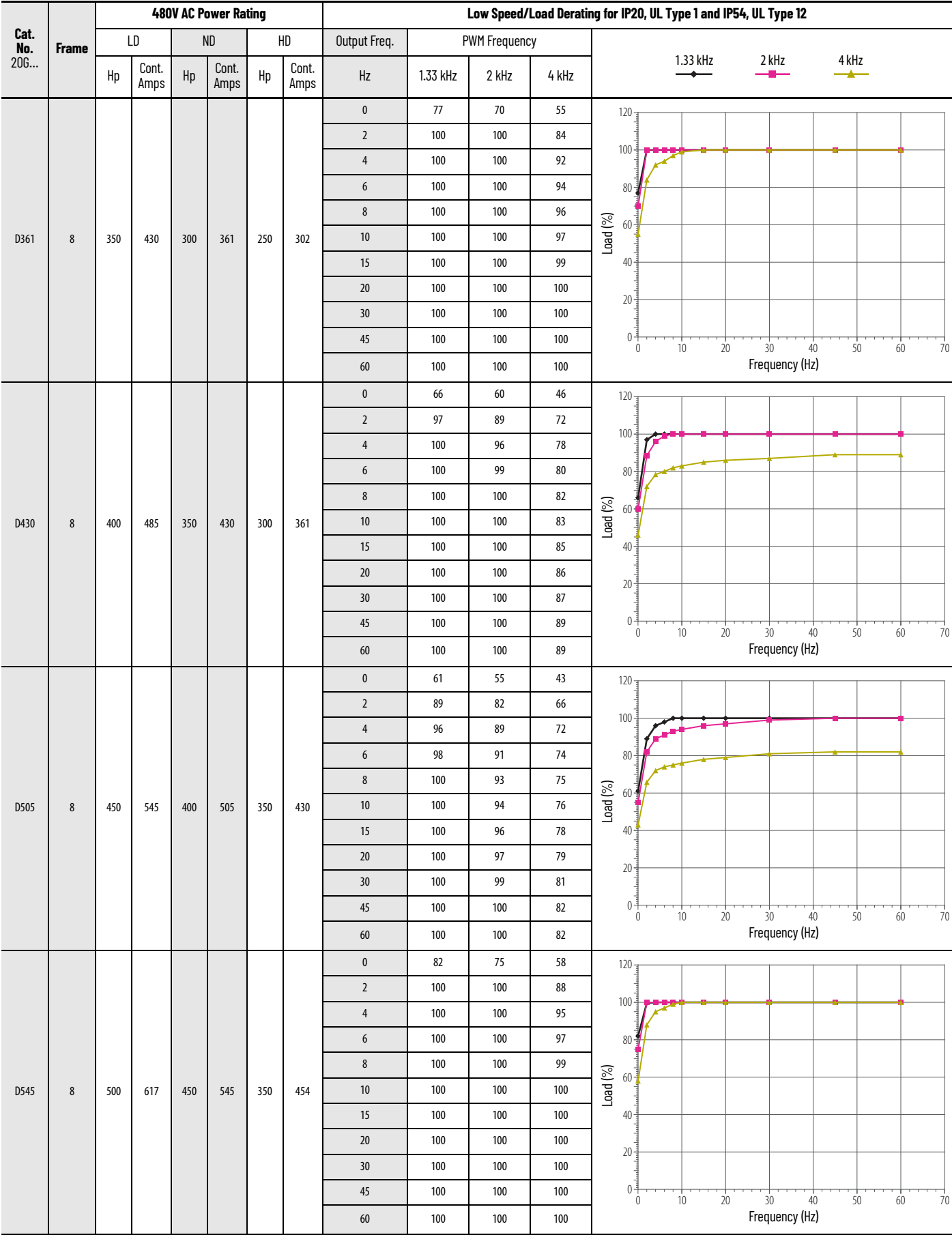
Low Speed/Load Derating for IP00, UL Open Type—480V AC

Cat. No. 20G...	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12						
		LD		ND		HD		Output Freq.	PWM Frequency				1.33 kHz	
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz	2 kHz		4 kHz
D302	7	300	361	250	302	200	248	0	100	100	94			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
D361	7	350	430	300	361	250	302	0	100	100	79			
								2	100	100	100			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			
D430	7	400	485	350	430	300	361	0	100	91	70			
								2	100	100	93			
								4	100	100	100			
								6	100	100	100			
								8	100	100	100			
								10	100	100	100			
								15	100	100	100			
								20	100	100	100			
								30	100	100	100			
								45	100	100	100			
								60	100	100	100			

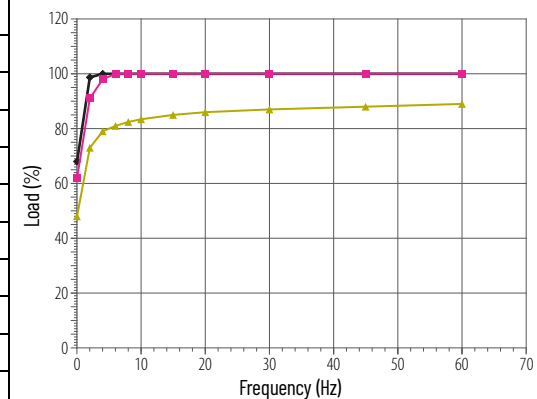
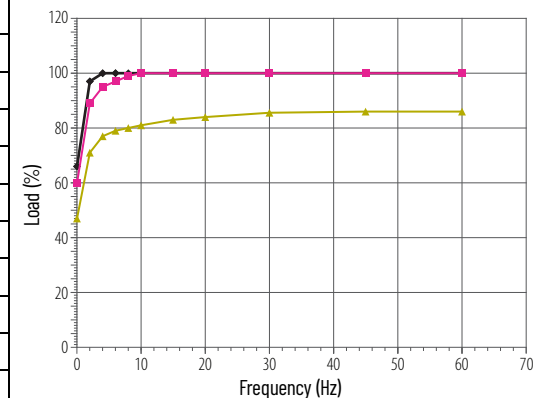
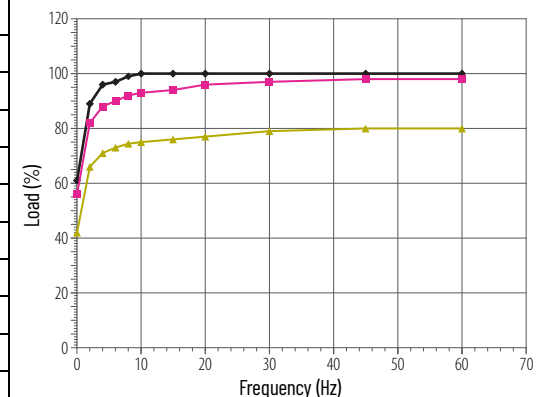
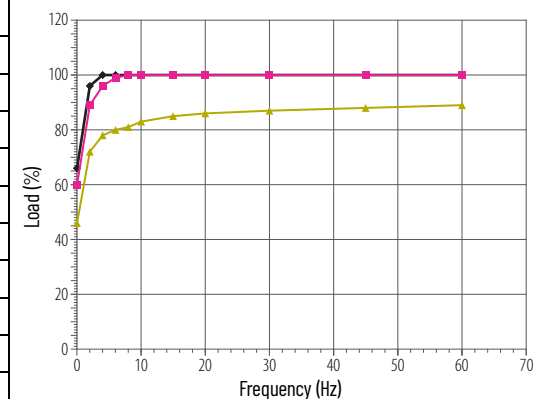
Low Speed/Load Derating for IP00, UL Open Type—480V AC (Continued)

Cat. No. 20G...	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					1.33 kHz 2 kHz 4 kHz
		LD		ND		HD		Output Freq.	PWM Frequency				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
D505	7	450	545	400	505	350	430	0	90	81	62		
								2	100	100	83		
								4	100	100	92		
								6	100	100	95		
								8	100	100	97		
								10	100	100	99		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
D617	7	500	617	500	600	400	500	0	79	72	55		
								2	100	93	73		
								4	100	100	81		
								6	100	100	84		
								8	100	100	86		
								10	100	100	87		
								15	100	100	90		
								20	100	100	92		
								30	100	100	94		
								45	100	100	95		
								60	100	100	96		
D650	7L	600	650	600	650	400	400	0	92	83	63		
								2	100	100	92		
								4	100	100	100		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
D302	8	300	361	250	302	200	248	0	97	88	68		
								2	100	100	100		
								4	100	100	100		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		

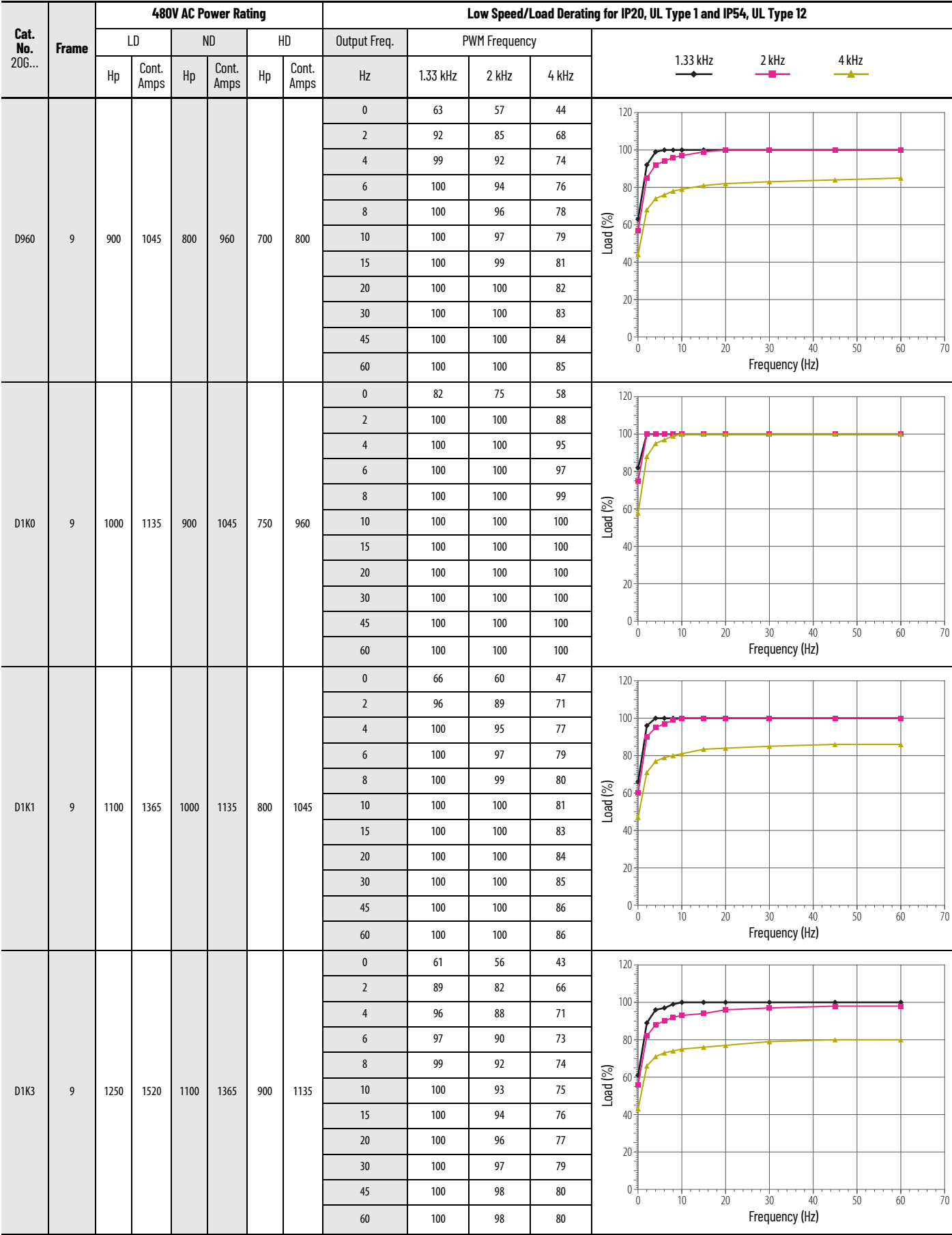
Low Speed/Load Derating for IP00, UL Open Type—480V AC (Continued)



Low Speed/Load Derating for IP00, UL Open Type—480V AC (Continued)

Cat. No. 20G...	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					1.33 kHz 2 kHz 4 kHz 
		LD		ND		HD		Output Freq.	PWM Frequency				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
D617	8	600	710	500	617	400	485	0	68	62	48		
								2	99	91	73		
								4	100	98	79		
								6	100	100	81		
								8	100	100	82		
								10	100	100	83		
								15	100	100	85		
								20	100	100	86		
								30	100	100	87		
								45	100	100	88		
								60	100	100	89		
D710	8	650	765	600	710	450	545	0	66	60	47		
								2	97	89	71		
								4	100	95	77		
								6	100	97	79		
								8	100	99	80		
								10	100	100	81		
								15	100	100	83		
								20	100	100	84		
								30	100	100	85		
								45	100	100	86		
								60	100	100	86		
D740	8	700	800	650	740	500	617	0	61	56	43		
								2	89	82	66		
								4	96	88	71		
								6	97	90	73		
								8	99	92	74		
								10	100	93	75		
								15	100	94	76		
								20	100	96	77		
								30	100	97	79		
								45	100	98	80		
								60	100	98	80		
D800	9	800	960	700	800	600	740	0	66	60	46		
								2	96	89	72		
								4	100	96	78		
								6	100	99	80		
								8	100	100	81		
								10	100	100	83		
								15	100	100	85		
								20	100	100	86		
								30	100	100	87		
								45	100	100	88		
								60	100	100	89		

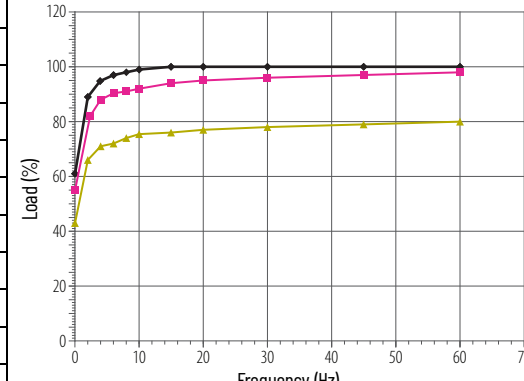
Low Speed/Load Derating for IP00, UL Open Type—480V AC (Continued)



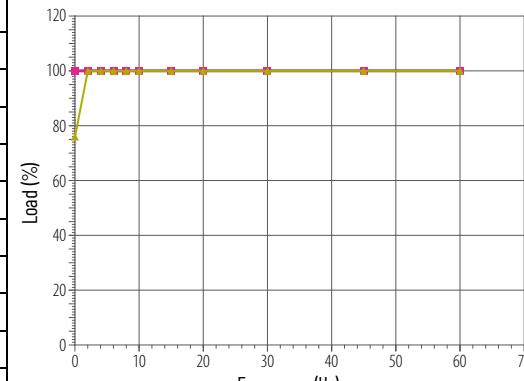
Low Speed/Load Derating for IP00, UL Open Type—480V AC (Continued)

Cat. No. 20G...	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					1.33 kHz 2 kHz 4 kHz
		LD		ND		HD		Output Freq.	PWM Frequency				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
D1K4	10	1500	1655	1250	1420	1000	1365	0	83	76	59		
								2	100	100	90		
								4	100	100	97		
								6	100	100	99		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
D1K6	10	1800	2070	1500	1655	1100	1420	0	66	60	47		
								2	97	89	72		
								4	100	96	77		
								6	100	98	79		
								8	100	99	80		
								10	100	100	81		
								15	100	100	83		
								20	100	100	84		
								30	100	100	85		
								45	100	100	86		
								60	100	100	87		
D2K0 D4K0	10	2000	2240	1800	2072	1500	1655	0	61	56	43		
								2	89	82	66		
								4	96	88	71		
								6	97	90	73		
								8	99	92	74		
	13	3900	4400	3600	4070	2800		10	100	93	75		
								15	100	94	76		
								20	100	96	77		
								30	100	97	79		
								45	100	98	80		
								60	100	98	80		
D2K6 D5K4	11	2600	2960	2400	2738	2000	2240	0	61	56	43		
								2	89	82	66		
								4	96	88	71		
								6	97	90	73		
								8	99	92	74		
	14	5200	5840	4800	5402	3700		10	100	93	75		
								15	100	94	76		
								20	100	96	78		
								30	100	97	79		
								45	100	98	80		
								60	100	98	80		

Low Speed/Load Derating for IP00, UL Open Type—480V AC (Continued)

Cat. No. 20G...	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12				
		LD		ND		HD		Output Freq.	PWM Frequency			1.33 kHz 2 kHz 4 kHz 
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz	
D3K4 D6K7	12 15	3300 6400	3696 7280	3000 6000	3404 6734	2400 4600	2980 5615	0	61	55	43	
								2	89	82	66	
								4	95	88	71	
								6	97	90	72	
								8	98	91	74	
								10	99	92	75	
								15	100	94	76	
								20	100	95	77	
								30	100	96	78	
								45	100	97	79	
								60	100	98	80	

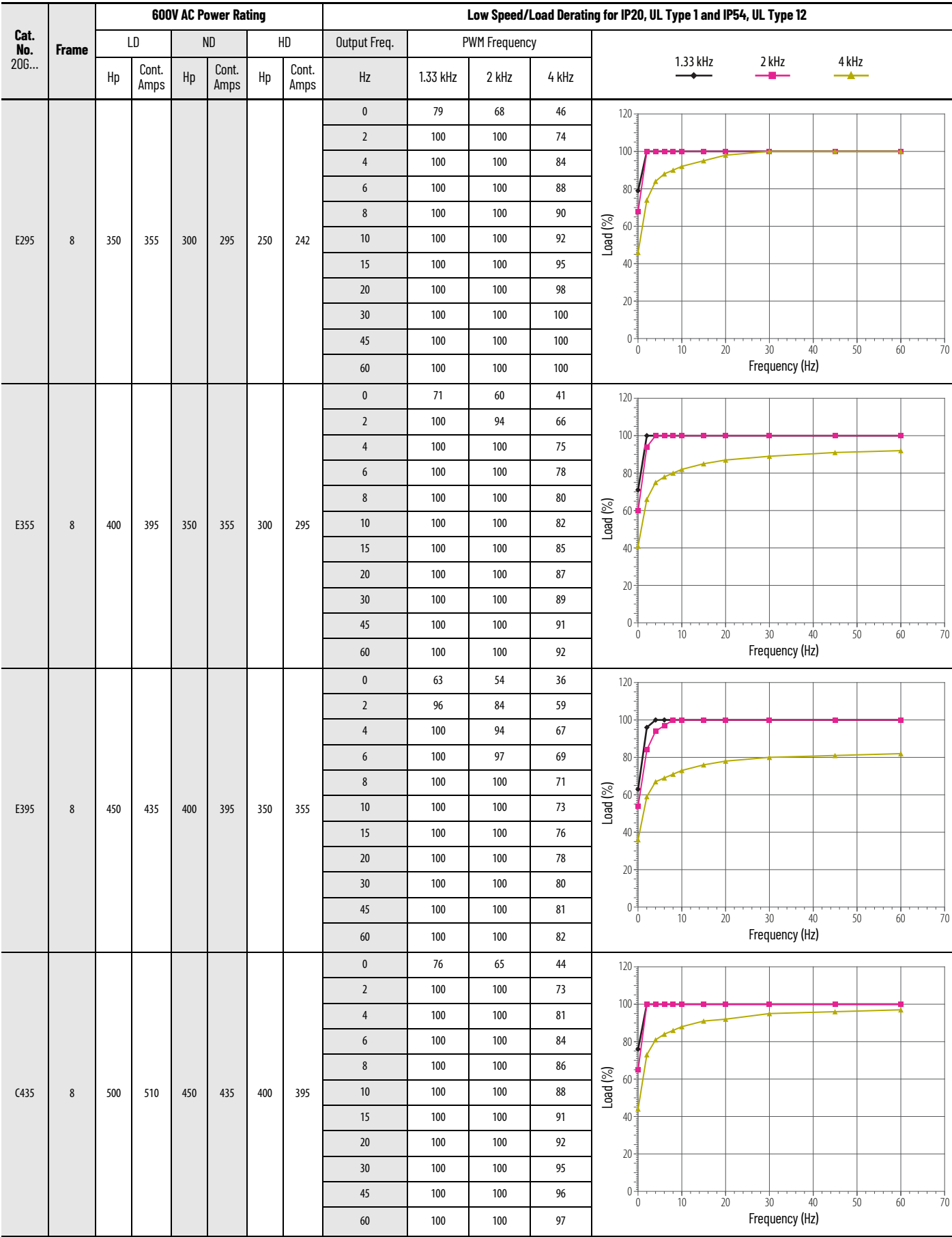
Low Speed/Load Derating for IP00, UL Open Type—600V AC

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12				
		LD		ND		HD		Output Freq.	PWM Frequency			1.33 kHz 2 kHz 4 kHz 
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz	
E192	7	250	242	200	192	150	144	0	100	100	76	
								2	100	100	100	
								4	100	100	100	
								6	100	100	100	
								8	100	100	100	
								10	100	100	100	
								15	100	100	100	
								20	100	100	100	
								30	100	100	100	
								45	100	100	100	
								60	100	100	100	
E242	7	300	295	250	242	200	192	0	100	88	61	
								2	100	100	95	
								4	100	100	100	
								6	100	100	100	
								8	100	100	100	
								10	100	100	100	
								15	100	100	100	
								20	100	100	100	
								30	100	100	100	
								45	100	100	100	
								60	100	100	100	

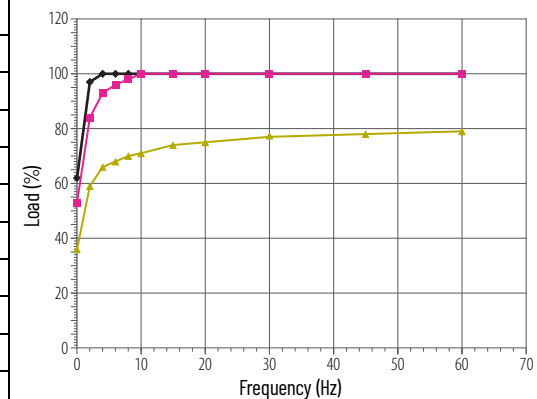
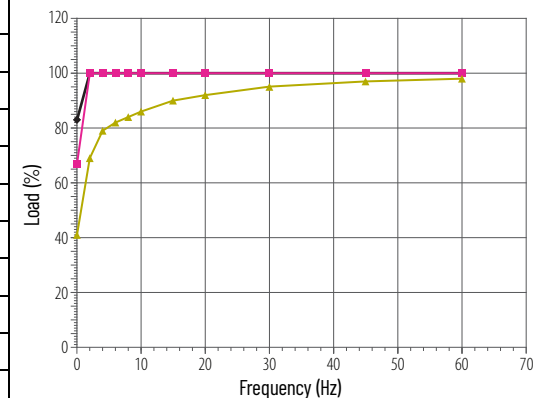
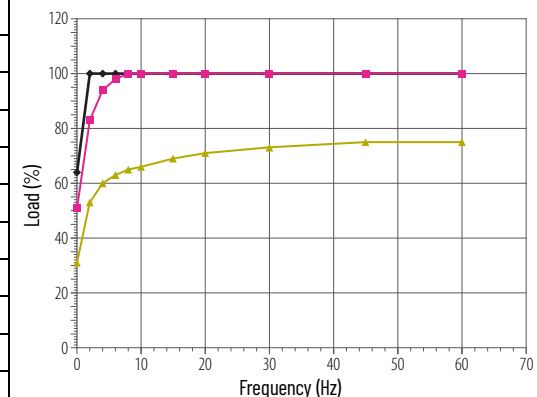
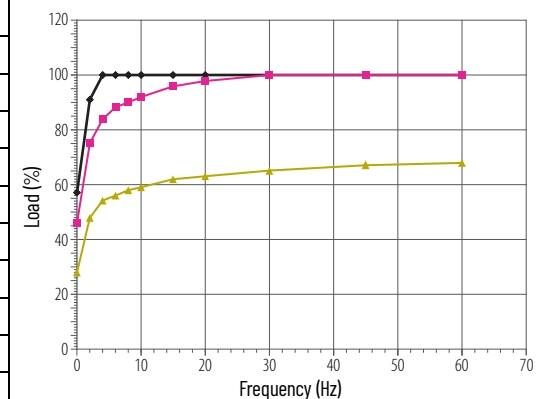
Low Speed/Load Derating for IP00, UL Open Type—600V AC (Continued)

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12				
		LD		ND		HD		Output Freq.	PWM Frequency			
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz	
E295	7	350	355	300	295	250	242	0	82	71	49	
								2	100	100	76	
								4	100	100	85	
								6	100	100	88	
								8	100	100	90	
								10	100	100	92	
								15	100	100	95	
								20	100	100	97	
								30	100	100	99	
								45	100	100	100	
								60	100	100	100	
E355	7	400	395	350	355	300	295	0	73	63	44	
								2	100	94	68	
								4	100	100	76	
								6	100	100	78	
								8	100	100	80	
								10	100	100	82	
								15	100	100	84	
								20	100	100	86	
								30	100	100	88	
								45	100	100	90	
								60	100	100	91	
E395	7	450	435	400	395	350	355	0	65	56	39	
								2	95	84	60	
								4	100	93	67	
								6	100	96	70	
								8	100	98	71	
								10	100	100	73	
								15	100	100	75	
								20	100	100	77	
								30	100	100	79	
								45	100	100	80	
								60	100	100	81	
E242	8	300	295	250	242	200	192	0	99	85	57	
								2	100	100	93	
								4	100	100	100	
								6	100	100	100	
								8	100	100	100	
								10	100	100	100	
								15	100	100	100	
								20	100	100	100	
								30	100	100	100	
								45	100	100	100	
								60	100	100	100	

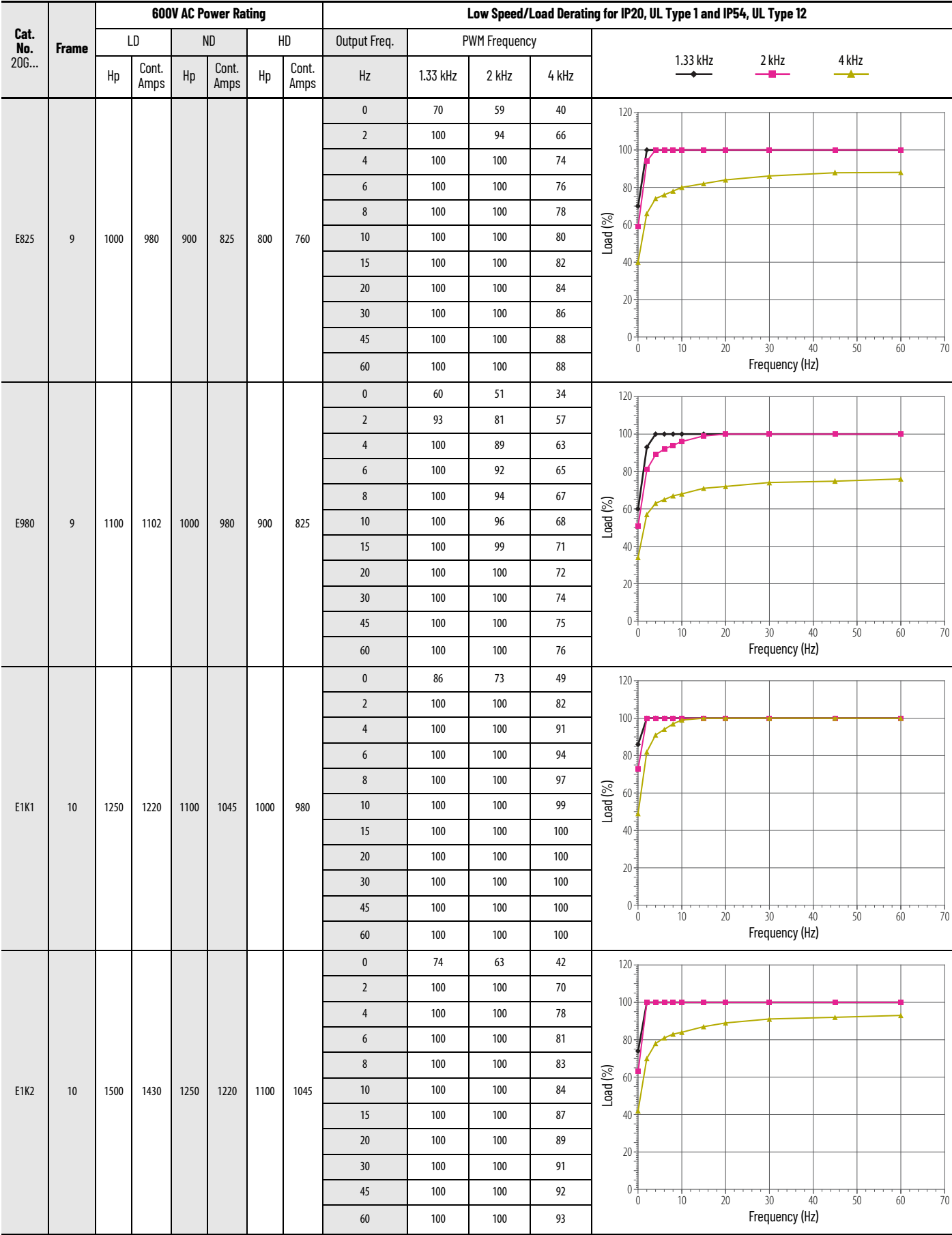
Low Speed/Load Derating for IP00, UL Open Type—600V AC (Continued)



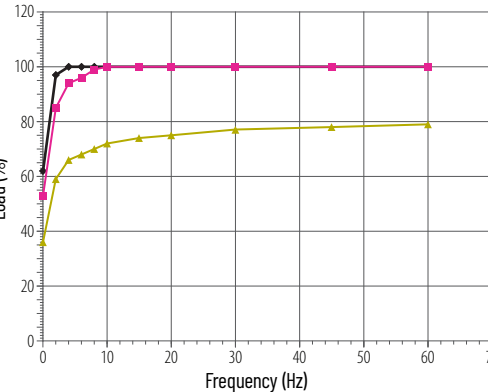
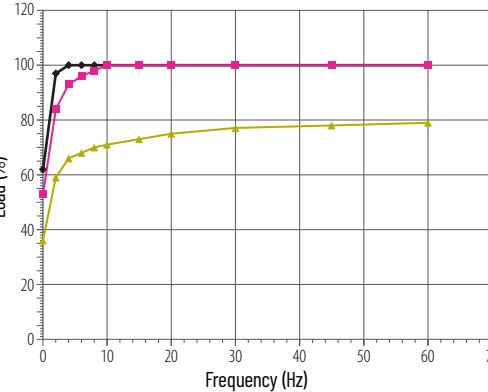
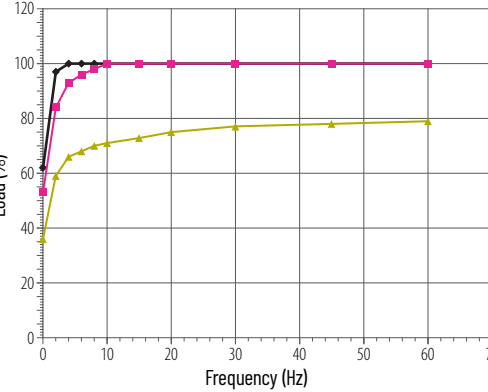
Low Speed/Load Derating for IP00, UL Open Type—600V AC (Continued)

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					1.33 kHz 2 kHz 4 kHz 
		LD		ND		HD		Output Freq.	PWM Frequency				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
E545	8	600	580	550	545	450	450	0	62	53	36		
								2	97	84	59		
								4	100	93	66		
								6	100	96	68		
								8	100	98	70		
								10	100	100	71		
								15	100	100	74		
								20	100	100	75		
								30	100	100	77		
								45	100	100	78		
								60	100	100	79		
E595	9	700	690	600	580	550	545	0	83	67	41		
								2	100	100	69		
								4	100	100	79		
								6	100	100	82		
								8	100	100	84		
								10	100	100	86		
								15	100	100	90		
								20	100	100	92		
								30	100	100	95		
								45	100	100	97		
								60	100	100	98		
E690	9	800	760	700	690	600	595	0	64	51	31		
								2	100	83	53		
								4	100	94	60		
								6	100	98	63		
								8	100	100	65		
								10	100	100	66		
								15	100	100	69		
								20	100	100	71		
								30	100	100	73		
								45	100	100	75		
								60	100	100	75		
E760	9	900	825	800	760	700	690	0	57	46	28		
								2	91	75	47		
								4	100	84	54		
								6	100	88	56		
								8	100	90	58		
								10	100	92	59		
								15	100	96	62		
								20	100	98	63		
								30	100	100	65		
								45	100	100	67		
								60	100	100	68		

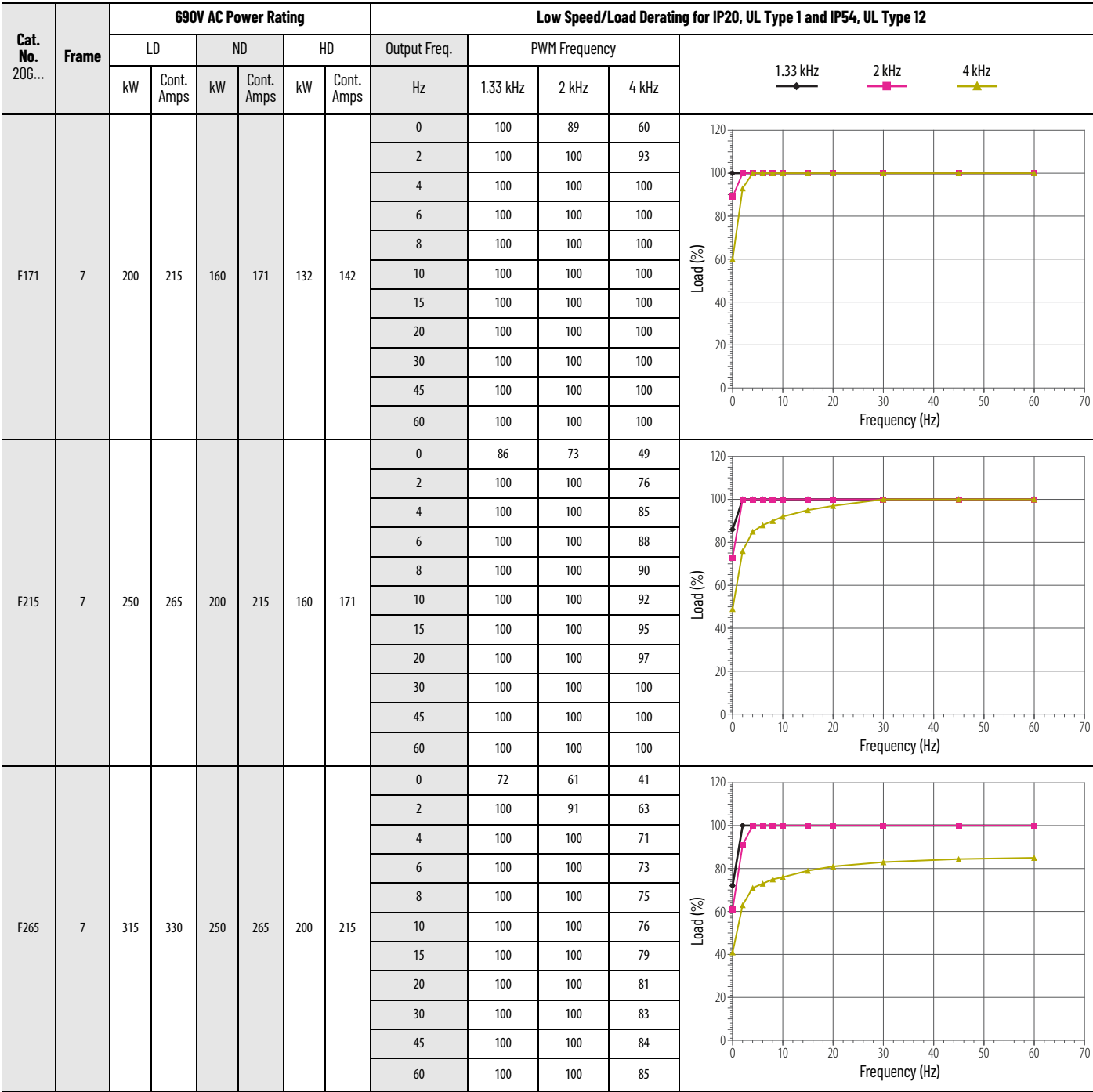
Low Speed/Load Derating for IP00, UL Open Type—600V AC (Continued)



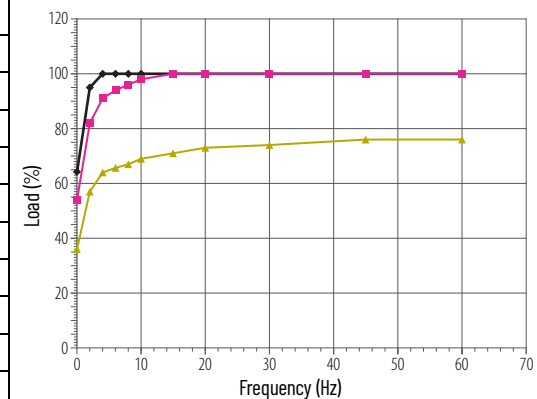
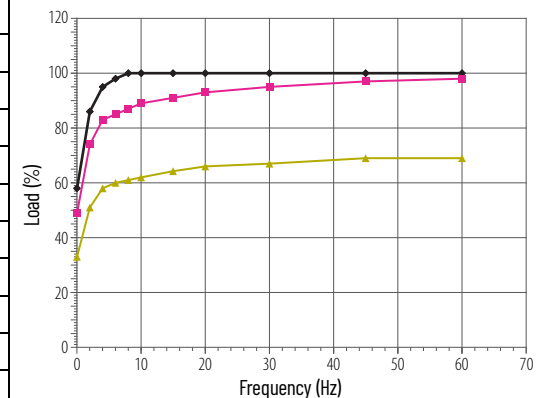
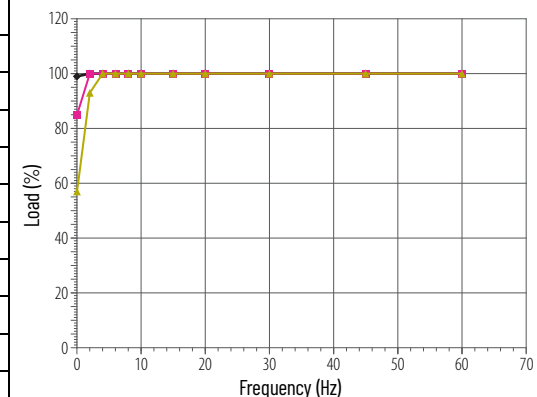
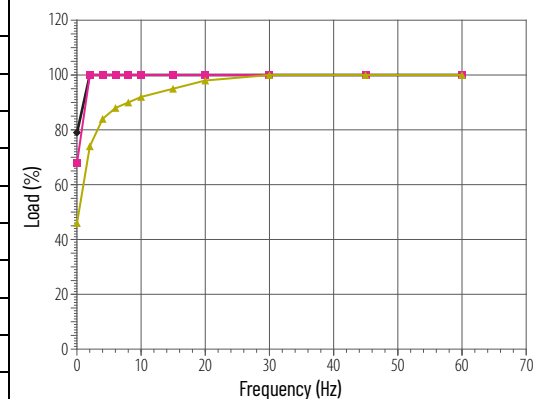
Low Speed/Load Derating for IP00, UL Open Type—600V AC (Continued)

Cat. No. 20G...	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					1.33 kHz 2 kHz 4 kHz
		LD		ND		HD		Output Freq.	PWM Frequency				
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
E1K5 E2K9	10	1600	1624	1500	1430	1250	1220	0	62	53	36		
	13	3300	3190	3100	2998	2500	2475	2	97	85	59		
	4	100	94	66									
	6	100	96	68									
	8	100	99	70									
	10	100	100	72									
	15	100	100	74									
	20	100	100	75									
	30	100	100	77									
	45	100	100	78									
	60	100	100	79									
E2K0 E3K9	11	2100	2146	2000	1946	1800	1700	0	62	53	36		
	14	4400	4234	4100	3979	3300	3285	2	97	84	59		
	4	100	93	66									
	6	100	96	68									
	8	100	98	70									
	10	100	100	71									
	15	100	100	73									
	20	100	100	75									
	30	100	100	77									
	45	100	100	78									
	60	100	100	79									
E2K4 E4K9	12	2600	2668	2500	2420	2100	2070	0	62	53	36		
	15	5500	5278	5100	4960	4100	4095	2	97	84	59		
	4	100	93	66									
	6	100	96	68									
	8	100	98	70									
	10	100	100	71									
	15	100	100	73									
	20	100	100	75									
	30	100	100	77									
	45	100	100	78									
	60	100	100	79									

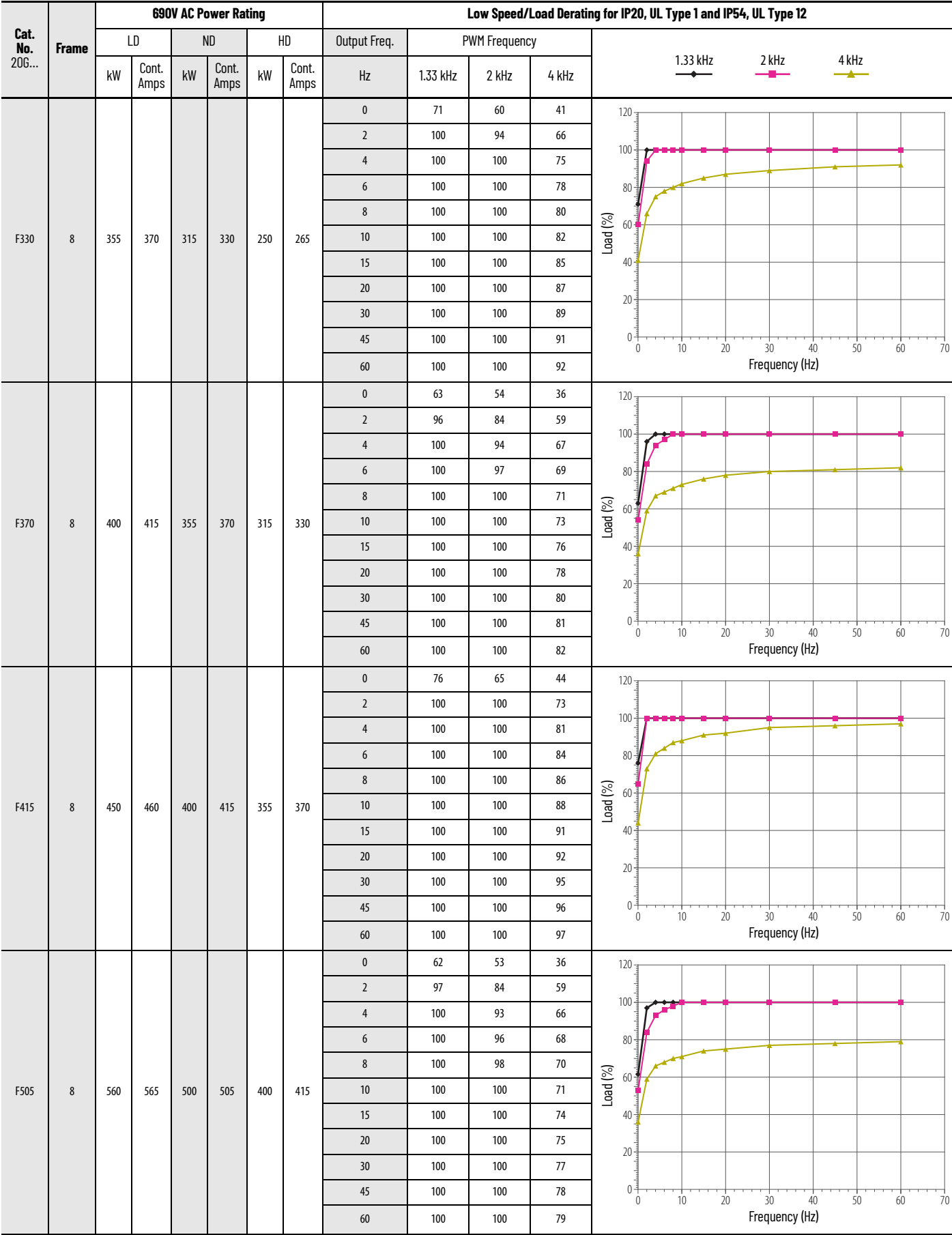
Low Speed/Load Derating for IP00, UL Open Type–690V AC



Low Speed/Load Derating for IP00, UL Open Type—690V AC (Continued)

Cat. No. 20G...	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					1.33 kHz 2 kHz 4 kHz 
		LD		ND		HD		Output Freq.	PWM Frequency				
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
F330	7	355	370	315	330	250	265	0	64	54	36		
								2	95	82	57		
								4	100	91	64		
								6	100	94	66		
								8	100	96	67		
								10	100	98	69		
								15	100	100	71		
								20	100	100	73		
								30	100	100	74		
								45	100	100	76		
								60	100	100	76		
F370	7	400	415	355	370	315	330	0	58	49	33		
								2	86	74	51		
								4	95	83	58		
								6	98	85	60		
								8	100	87	61		
								10	100	89	62		
								15	100	91	64		
								20	100	93	66		
								30	100	95	67		
								45	100	97	69		
								60	100	98	69		
F215	8	250	265	200	215	160	171	0	99	85	57		
								2	100	100	93		
								4	100	100	100		
								6	100	100	100		
								8	100	100	100		
								10	100	100	100		
								15	100	100	100		
								20	100	100	100		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		
F265	8	315	330	250	265	200	215	0	79	68	46		
								2	100	100	74		
								4	100	100	84		
								6	100	100	88		
								8	100	100	90		
								10	100	100	92		
								15	100	100	95		
								20	100	100	98		
								30	100	100	100		
								45	100	100	100		
								60	100	100	100		

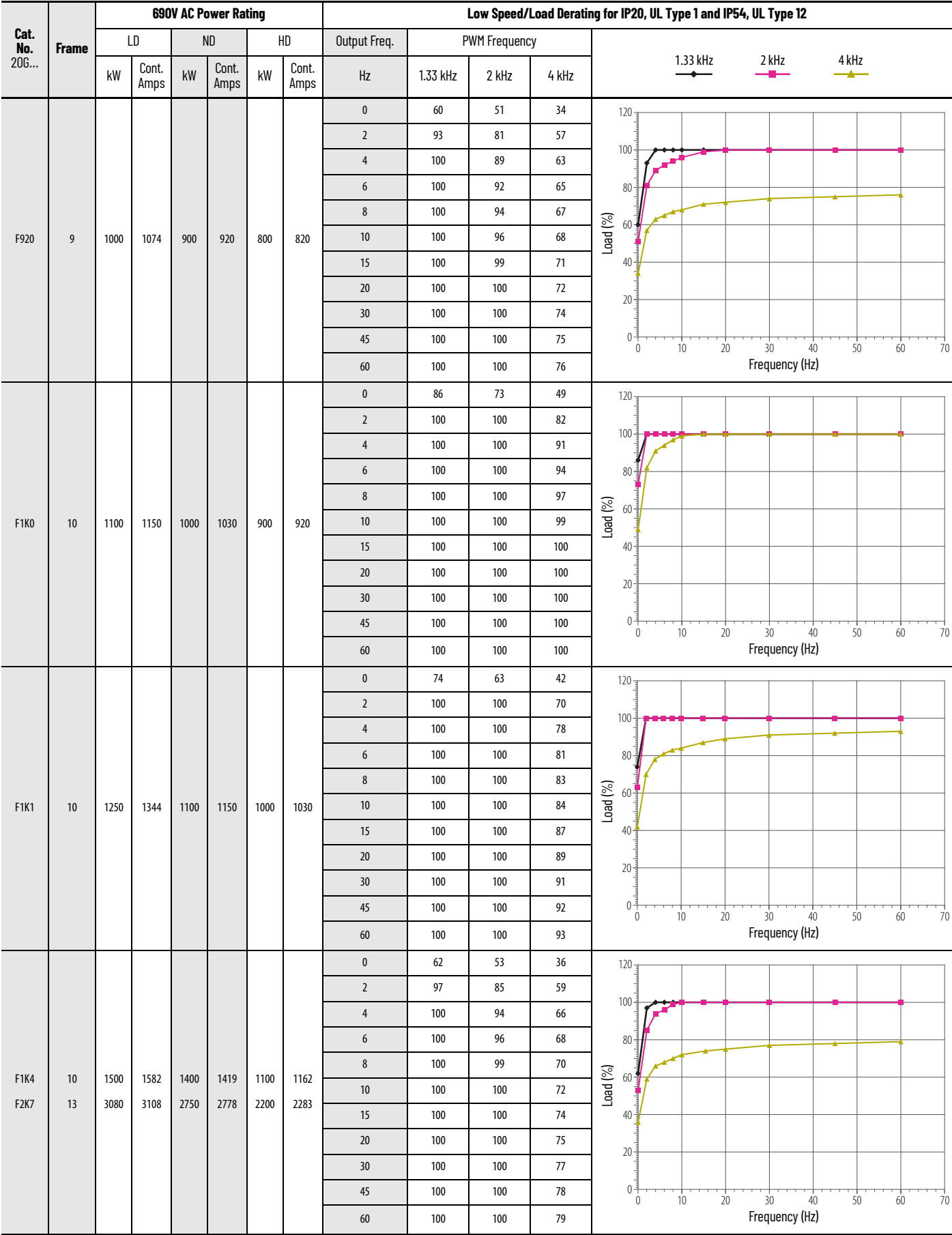
Low Speed/Load Derating for IP00, UL Open Type—690V AC (Continued)



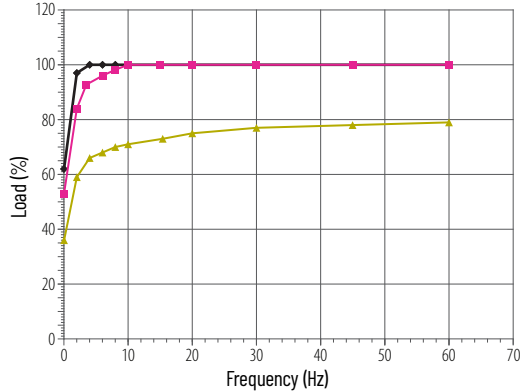
Low Speed/Load Derating for IP00, UL Open Type—690V AC (Continued)

Cat. No. 20G...	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12				
		LD		ND		HD		Output Freq.	PWM Frequency			
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz	
F565	9	630	650	560	565	500	505	0	83	67	41	
								2	100	100	69	
								4	100	100	79	
								6	100	100	82	
								8	100	100	84	
								10	100	100	86	
								15	100	100	90	
								20	100	100	92	
								30	100	100	95	
								45	100	100	97	
								60	100	100	98	
F650	9	710	735	630	650	560	565	0	64	51	31	
								2	100	83	53	
								4	100	94	60	
								6	100	98	63	
								8	100	100	65	
								10	100	100	66	
								15	100	100	69	
								20	100	100	71	
								30	100	100	73	
								45	100	100	75	
								60	100	100	75	
F735	9	800	820	710	735	630	650	0	57	46	28	
								2	91	75	47	
								4	100	84	54	
								6	100	88	56	
								8	100	90	58	
								10	100	92	59	
								15	100	96	62	
								20	100	98	63	
								30	100	100	65	
								45	100	100	67	
								60	100	100	68	
F820	9	900	920	800	820	710	735	0	70	59	40	
								2	100	94	66	
								4	100	100	74	
								6	100	100	76	
								8	100	100	78	
								10	100	100	80	
								15	100	100	82	
								20	100	100	84	
								30	100	100	86	
								45	100	100	88	
								60	100	100	88	

Low Speed/Load Derating for IP00, UL Open Type—690V AC (Continued)



Low Speed/Load Derating for IP00, UL Open Type—690V AC (Continued)

Cat. No. 20G...	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12					
		LD		ND		HD		Output Freq.		PWM Frequency			1.33 kHz 2 kHz 4 kHz
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz		
F1K8 F3K6	11	2000	2091	1800	1865	1500	1535	0	62	53	36		
	14	4088	4125	3650	3687	2920	3030	2	97	84	59		
	4	100	93	66									
	6	100	96	68									
	8	100	98	70									
	10	100	100	71									
	15	100	100	73									
	20	100	100	75									
	30	100	100	77									
	45	100	100	78									
	60	100	100	79									
	F2K3 F4K5	12	2500	2599	2300	2318	2000	2020	0	62	53		36
15		5096	5142	4550	4596	3640	3777	2	97	84	59		
4		100	93	66									
6		100	96	68									
8		100	98	70									
10		100	100	71									
15		100	100	73									
20		100	100	75									
30		100	100	77									
45		100	100	78									
60		100	100	79									

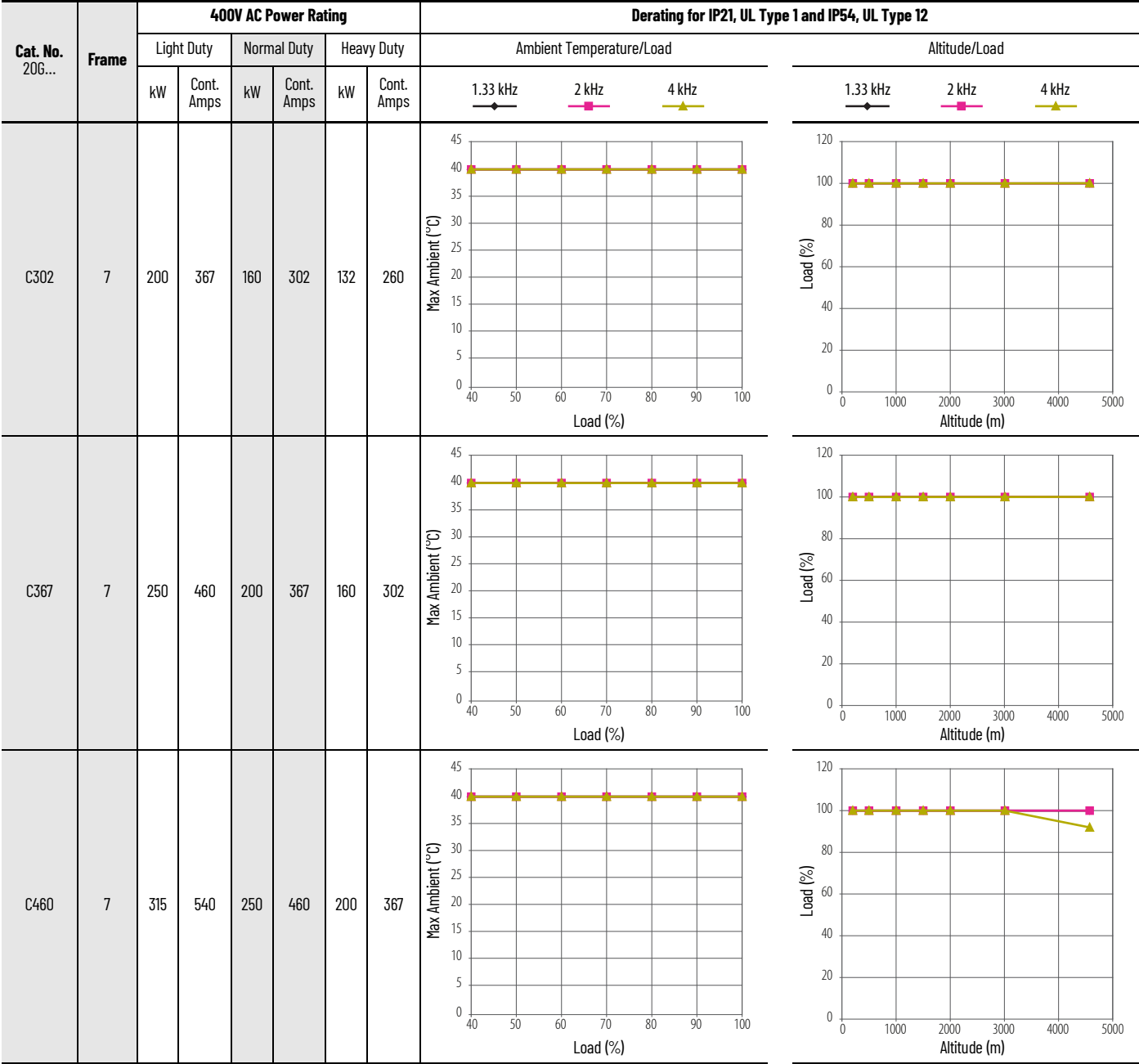
Temperature and Altitude Derating

The following graphs show the ambient temperature and altitude deratings for PowerFlex 755T products.

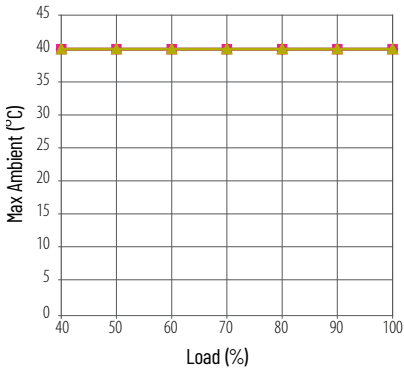
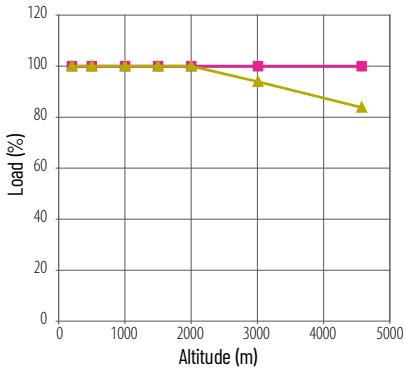
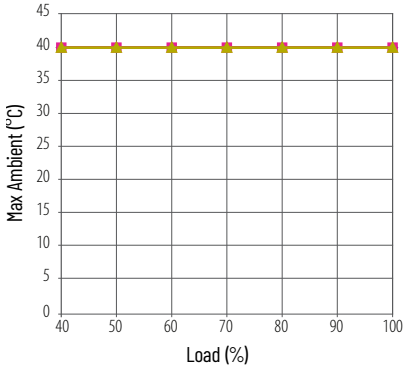
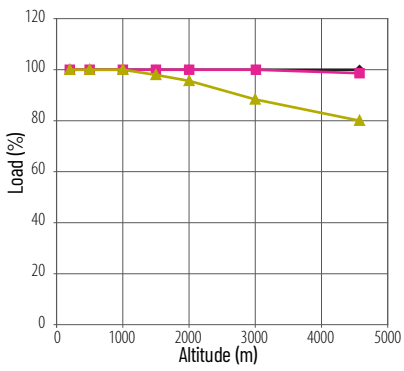
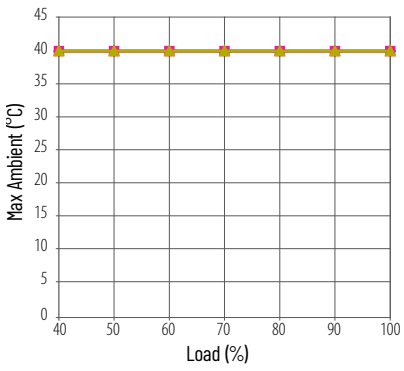
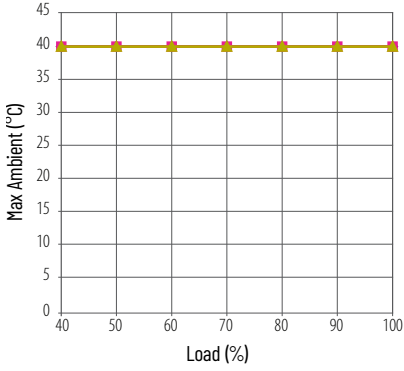
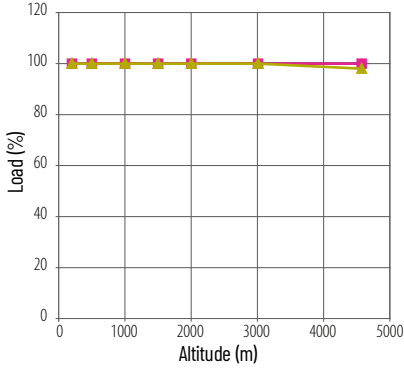
- Each carrier frequency curve is valid for both drives and common bus inverters.
- The lowest carrier frequency curve is valid for bus supplies.

If a catalog number is not shown, that drive can be operated without derating as long as the limits specified on page 6 is followed.

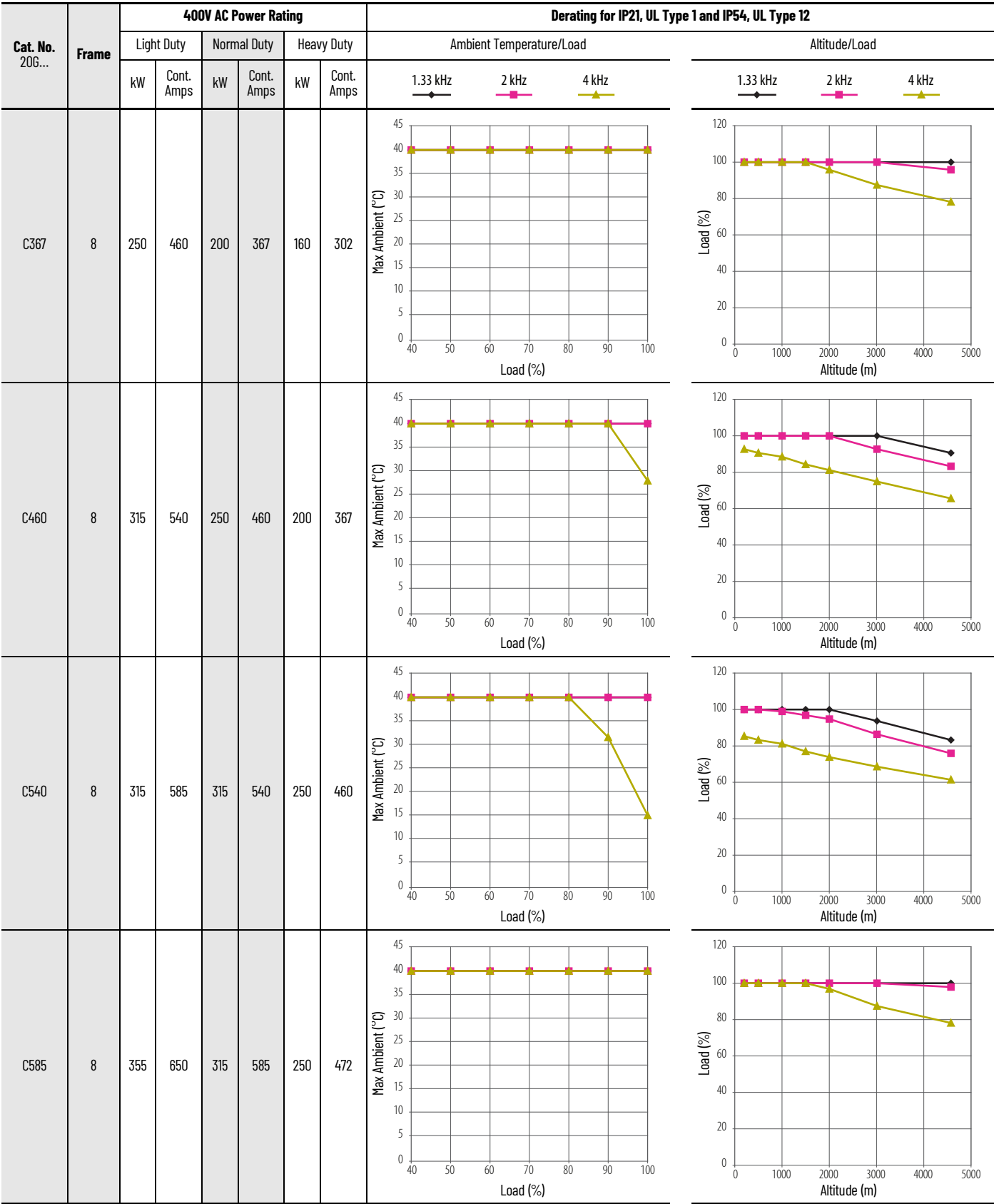
Ambient Temperature and Altitude Derating for IP00, UL Open Type—400V AC



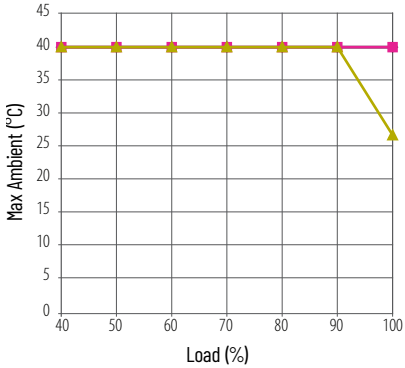
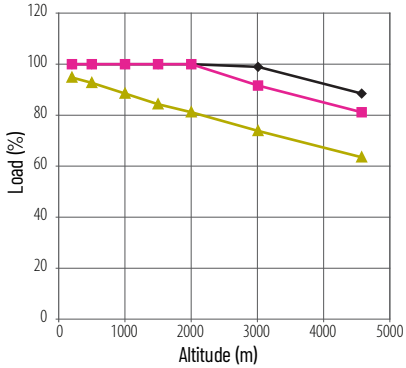
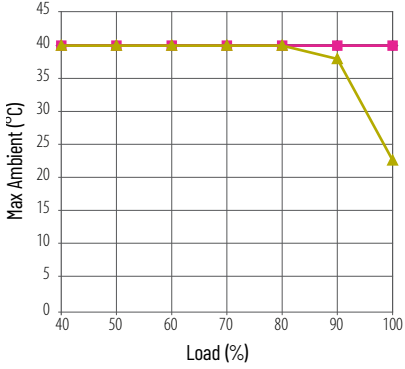
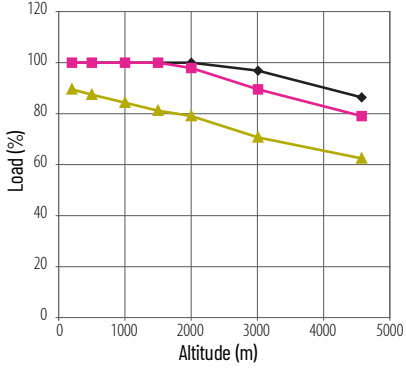
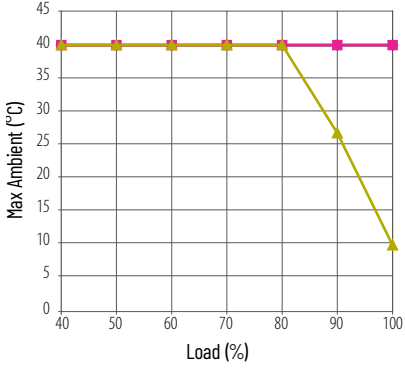
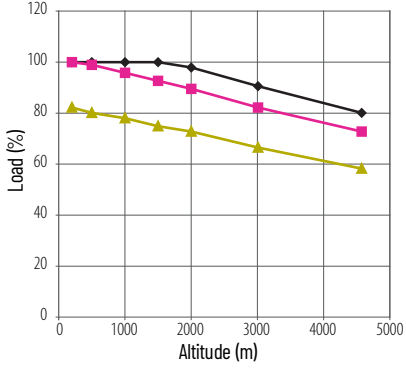
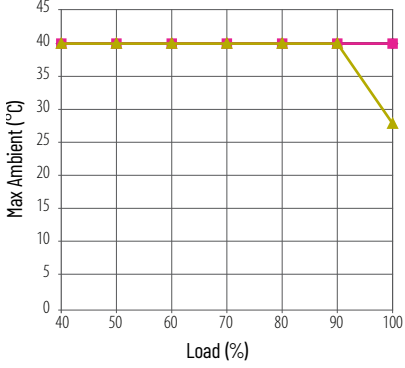
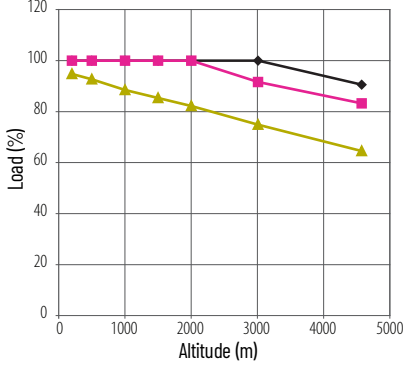
Ambient Temperature and Altitude Derating for IP00, UL Open Type—400V AC (Continued)

Cat. No. 206...	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load			Altitude/Load		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz	2 kHz	4 kHz	1.33 kHz	2 kHz	4 kHz
C540	7	315	585	315	540	250	460						
C585	7	315	617	315	600	250	500						
C650	7L	355	650	355	650	250	477				Chart not available. For every additional 100 m (328 ft) above 1000 m (3280 ft), derate the output current by 1%.		
C302	8	200	367	160	302	132	260						

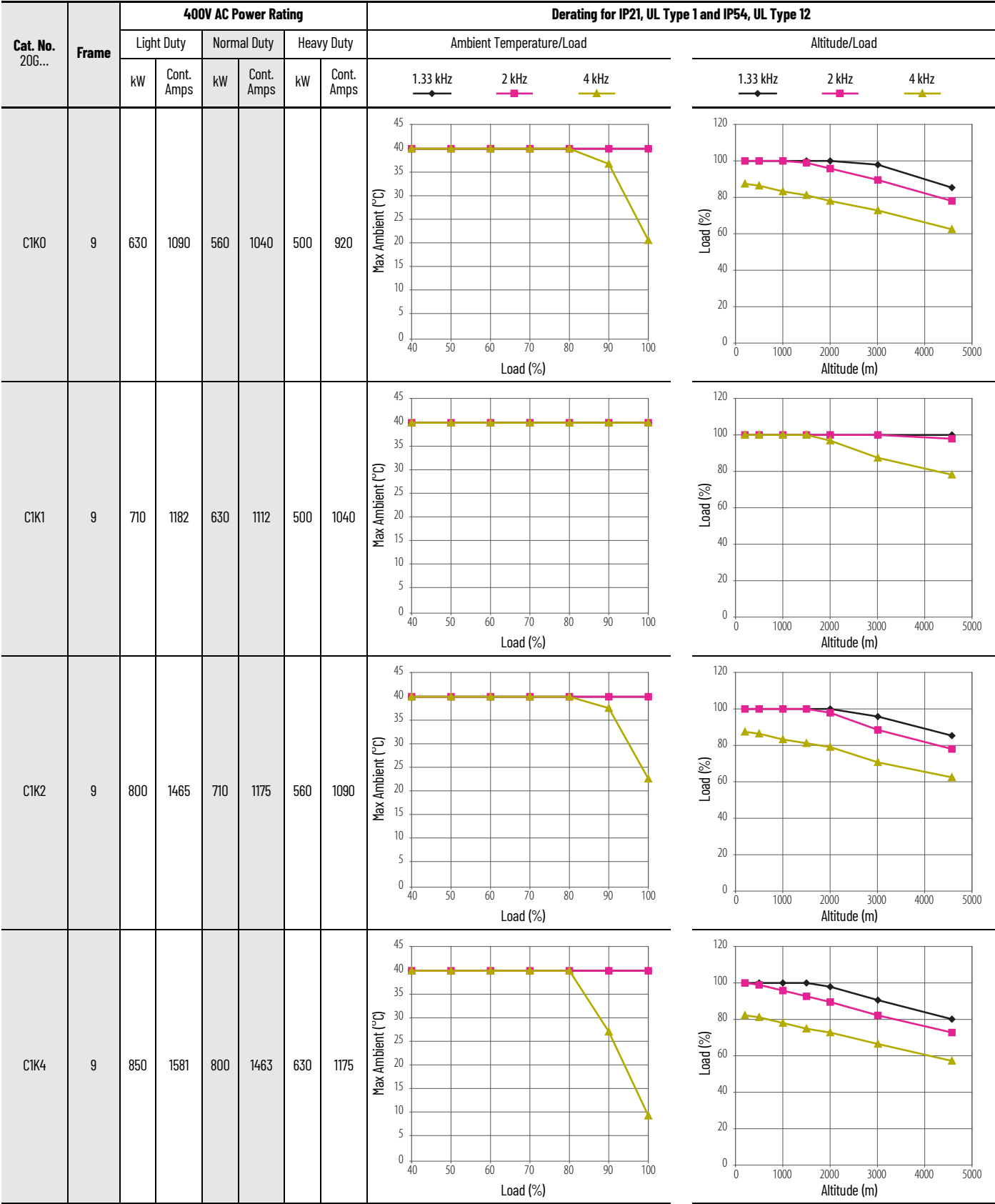
Ambient Temperature and Altitude Derating for IP00, UL Open Type—400V AC (Continued)



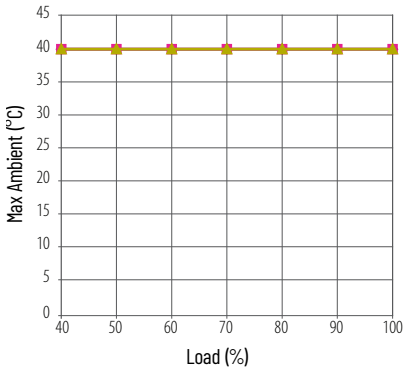
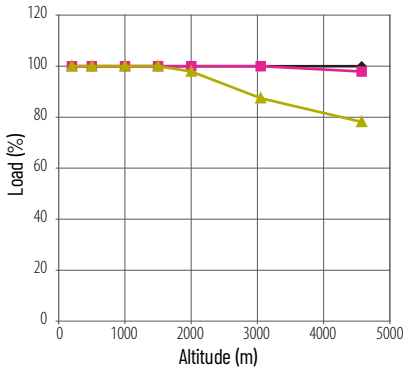
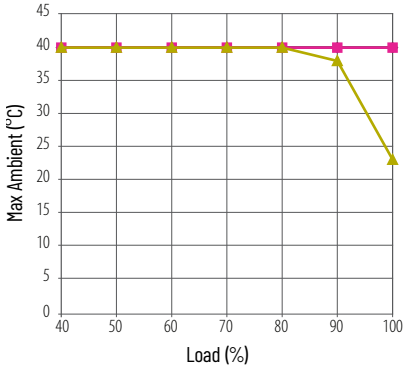
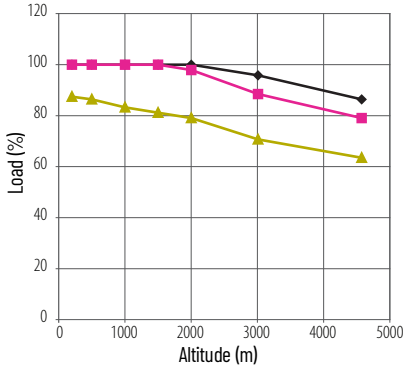
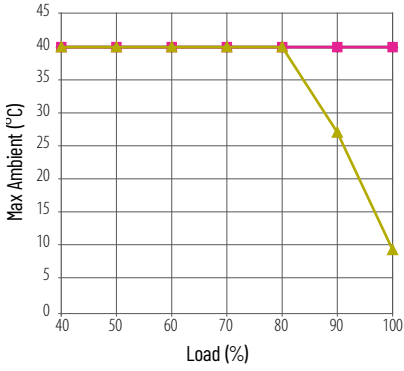
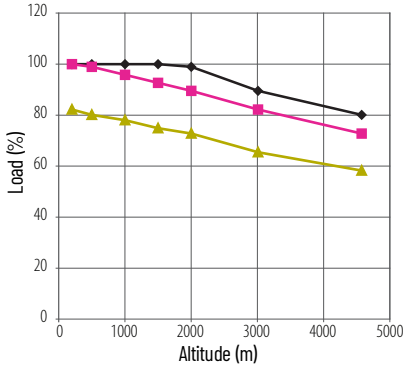
Ambient Temperature and Altitude Derating for IP00, UL Open Type—400V AC (Continued)

Cat. No. 206...	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load			Altitude/Load		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz	2 kHz	4 kHz	1.33 kHz	2 kHz	4 kHz
C650	8	400	750	355	650	315	540						
C750	8	450	796	400	750	315	585						
C770	8	450	832	400	770	355	650						
C920	9	560	1040	500	920	400	770						

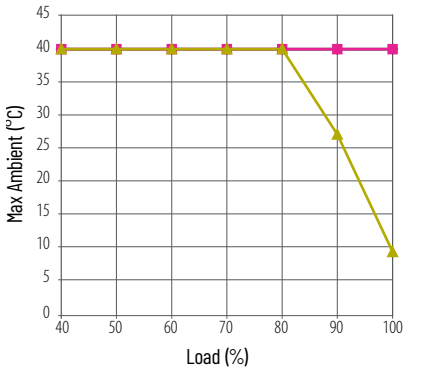
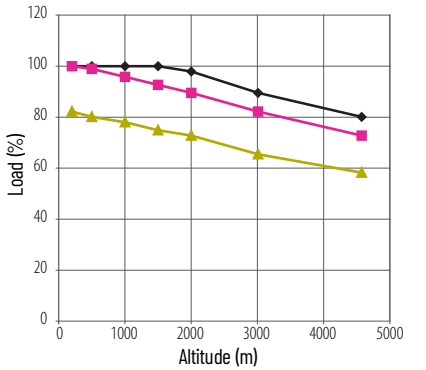
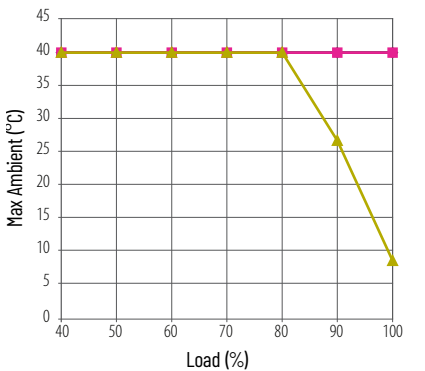
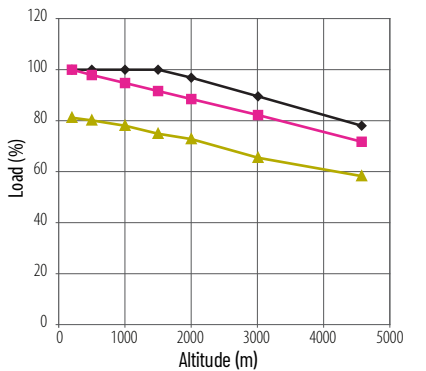
Ambient Temperature and Altitude Derating for IP00, UL Open Type—400V AC (Continued)



Ambient Temperature and Altitude Derating for IP00, UL Open Type—400V AC (Continued)

Cat. No. 206...	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load			Altitude/Load		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz	2 kHz	4 kHz	1.33 kHz	2 kHz	4 kHz
C1K6	10	1000	1715	850	1590	710	1465						
C1K7	10	1250	2150	1000	1715	800	1480						
C2K1 C2K1	10 13	1400 2475	2330 4576	1250 2200	2156 4235	1000 1953	1715 3575						

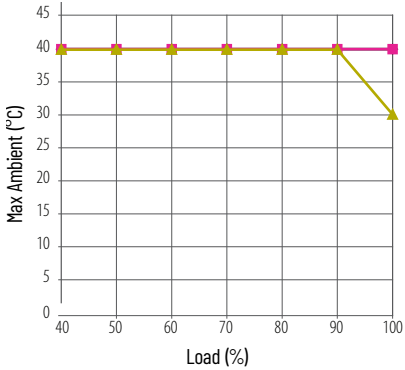
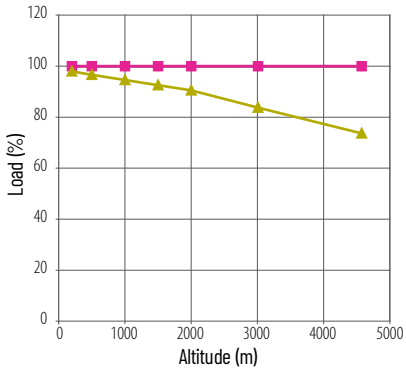
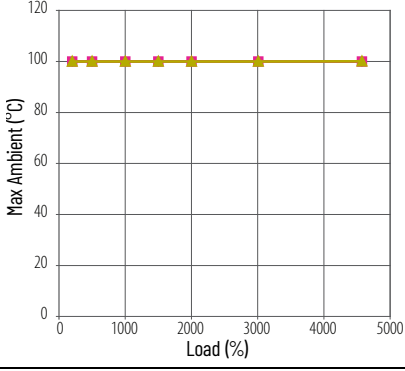
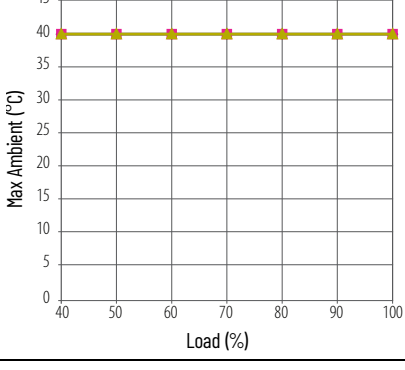
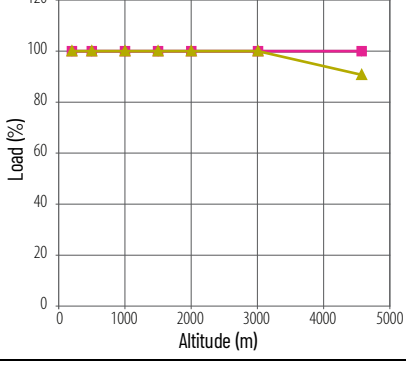
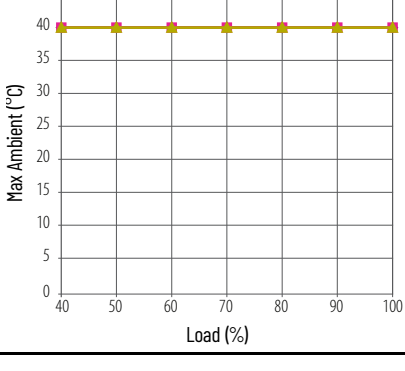
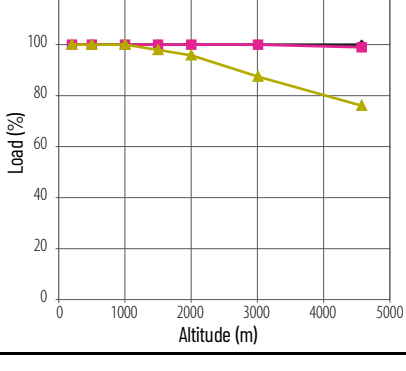
Ambient Temperature and Altitude Derating for IP00, UL Open Type—400V AC (Continued)

Cat. No. 206...	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load			Altitude/Load		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz	2 kHz	4 kHz	1.33 kHz	2 kHz	4 kHz
C2K8 C5K6	11	1800	3078	1650	2848	1400	2330						
	14	3285	6074	2920	5621	2592	4745						
C3K5 C7K0	12	2200	3846	2000	3542	1650	3032						
	15	4095	7571	3640	7007	3231	5915						

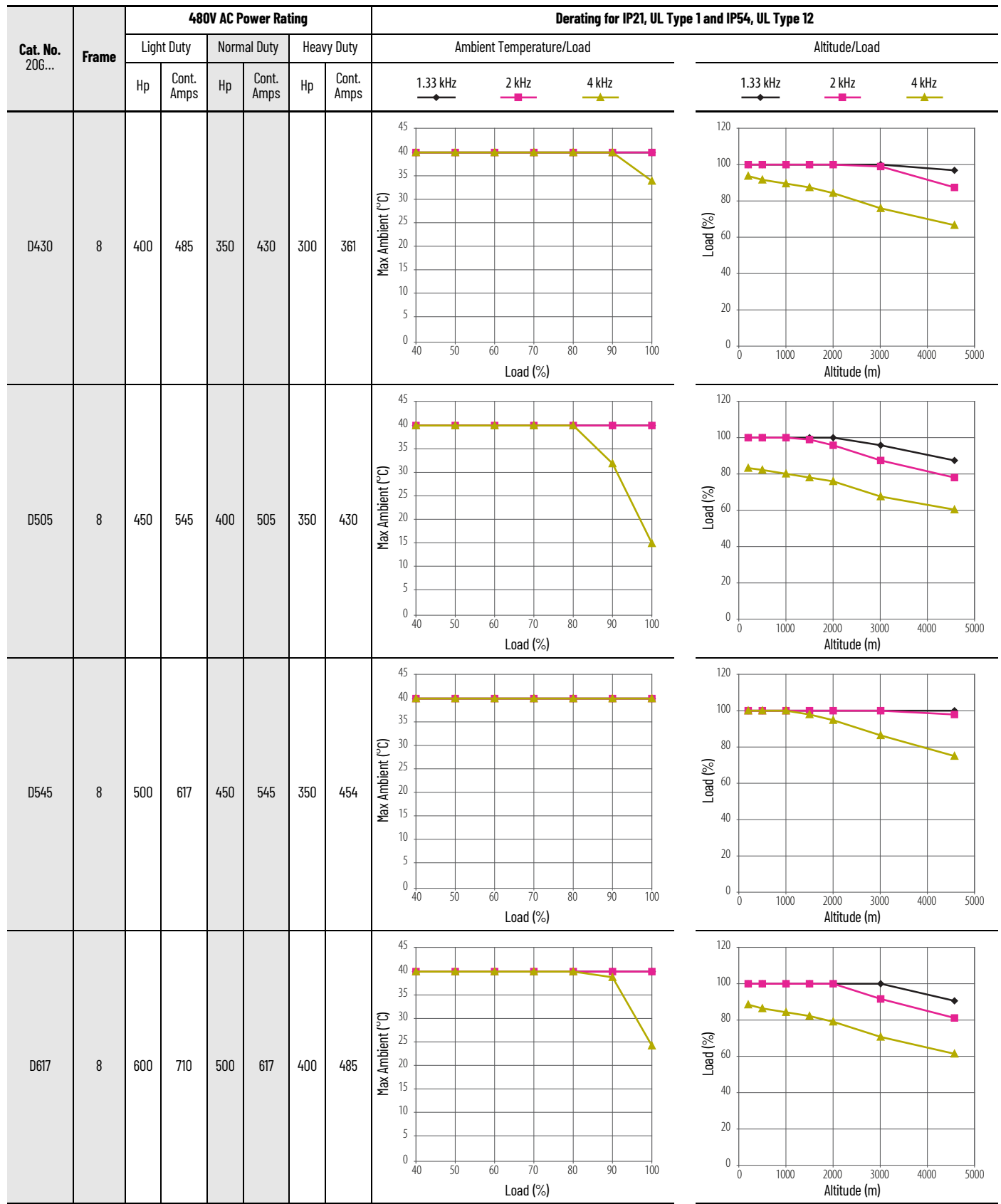
Ambient Temperature and Altitude Derating for IP00, UL Open Type—480V AC

Cat. No. 206...	Frame	480V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load		Altitude/Load			
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz —◆—	2 kHz —■—	4 kHz —▲—	1.33 kHz —◆—	2 kHz —■—	4 kHz —▲—
D302	7	300	361	250	302	200	248						
D361	7	350	430	300	361	250	302						
D430	7	400	485	350	430	300	361						
D505	7	450	545	400	505	350	430						

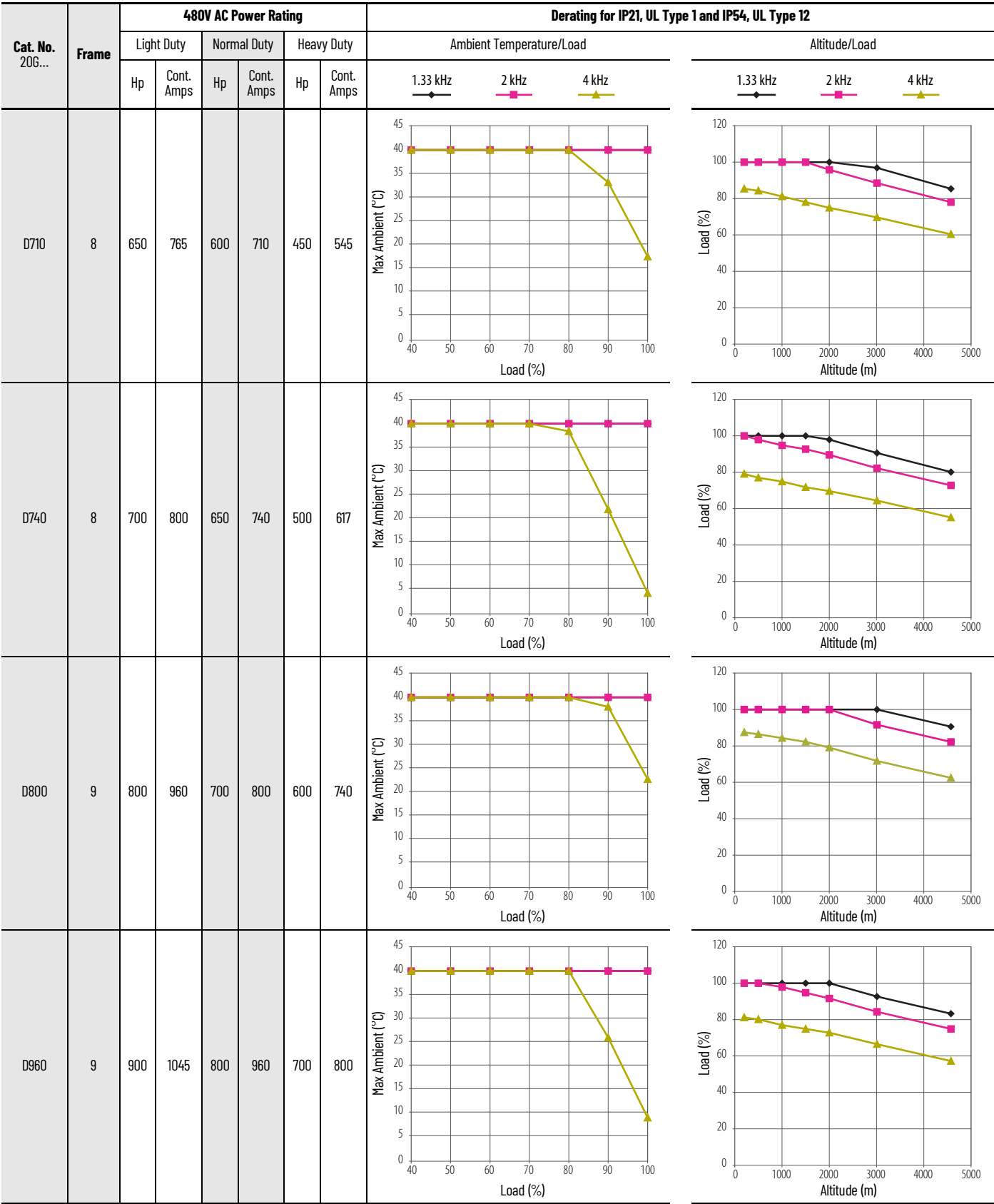
Ambient Temperature and Altitude Derating for IP00, UL Open Type—480V AC (Continued)

Cat. No. 206...	Frame	480V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load			Altitude/Load		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz	2 kHz	4 kHz	1.33 kHz	2 kHz	4 kHz
D617	7	500	617	500	600	400	500						
D650	7L	600	650	600	650	400	400				Chart not available. For every additional 100 m (328 ft) above 1000 m (3280 ft), derate the output current by 1%.		
D302	8	300	361	250	302	200	248						
D361	8	350	430	300	361	250	302						

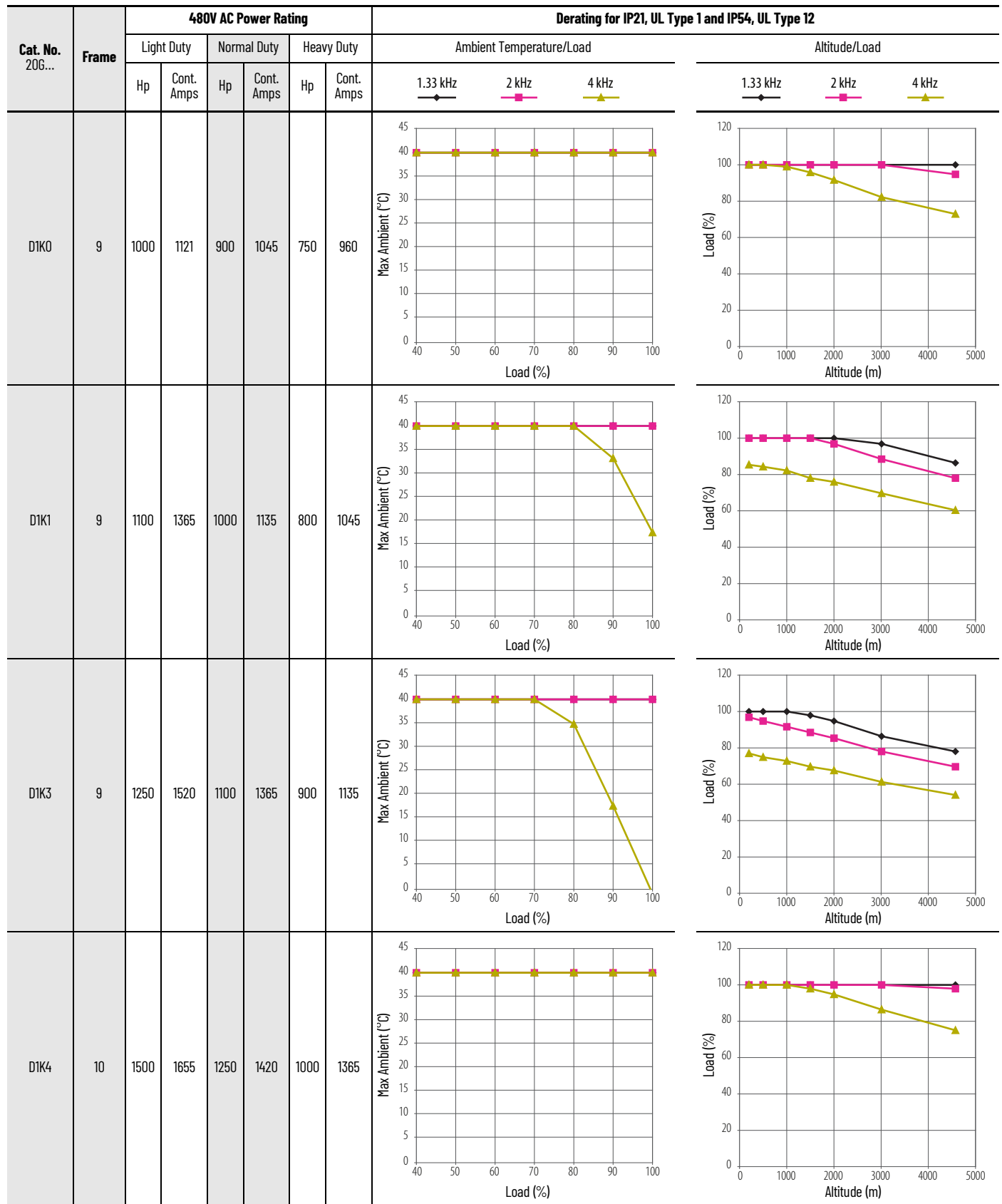
Ambient Temperature and Altitude Derating for IP00, UL Open Type—480V AC (Continued)



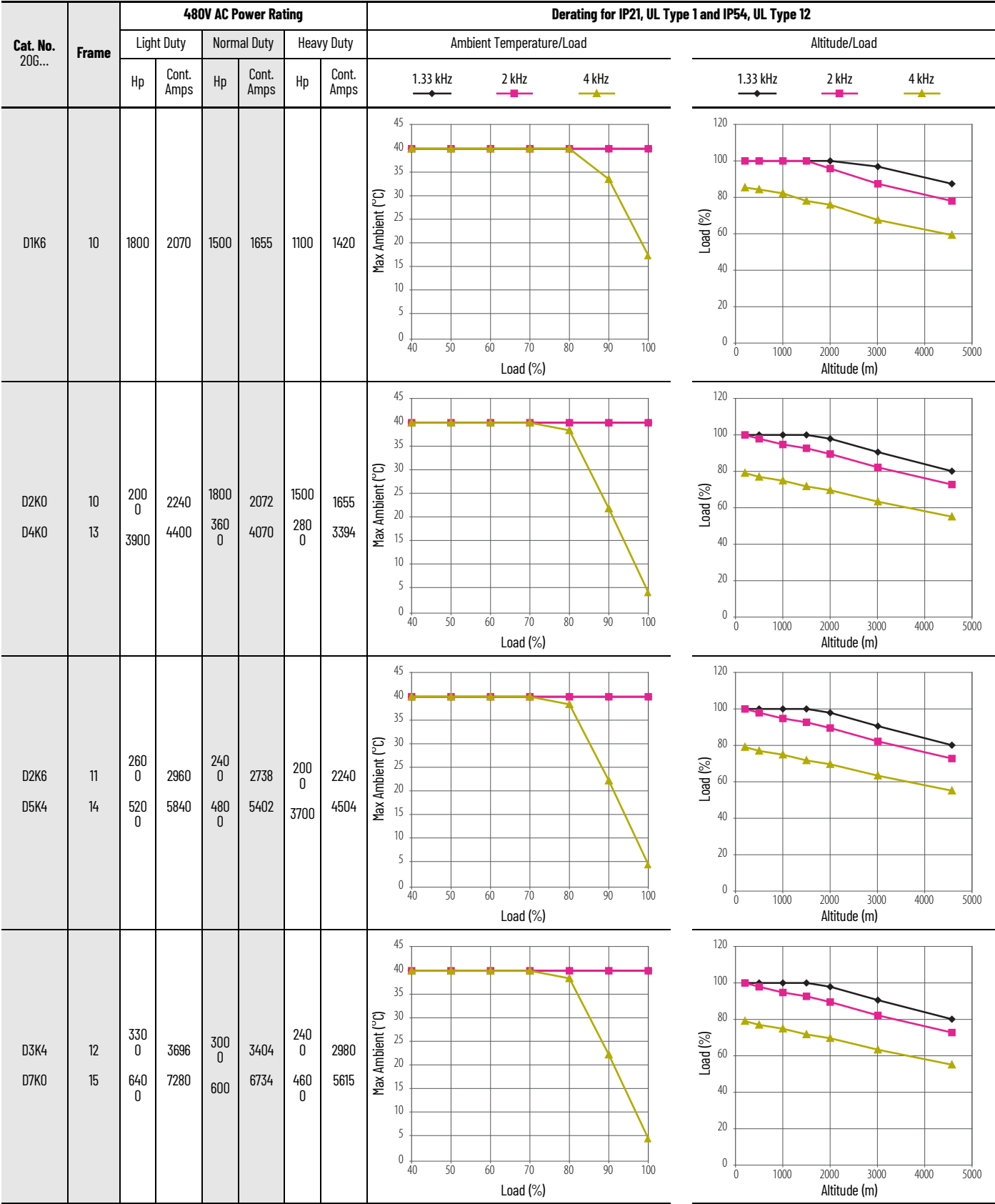
Ambient Temperature and Altitude Derating for IP00, UL Open Type—480V AC (Continued)



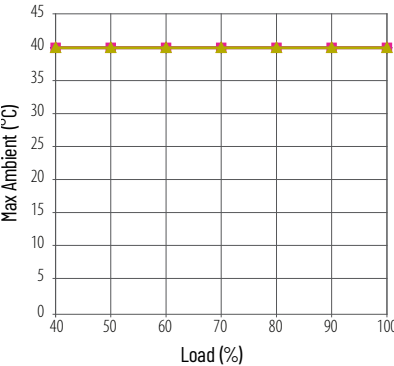
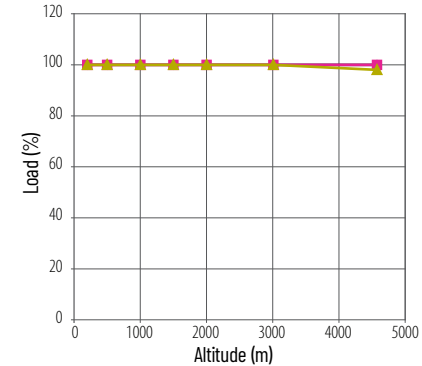
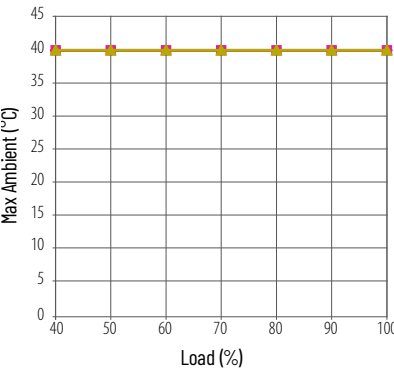
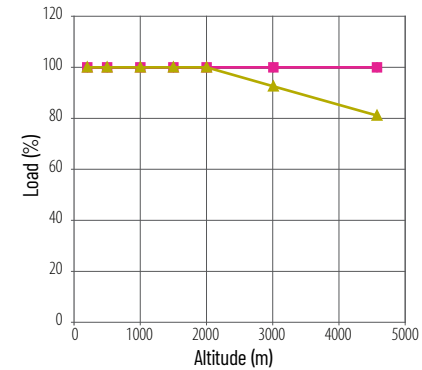
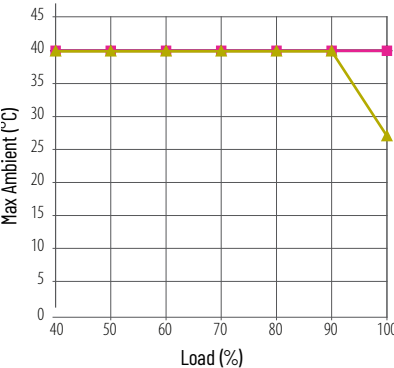
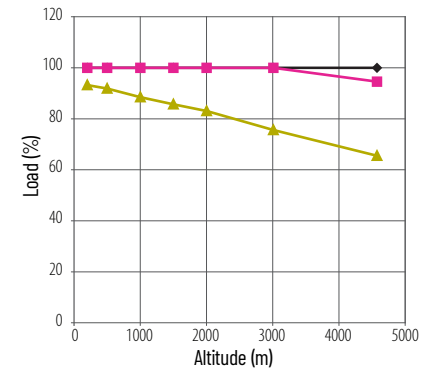
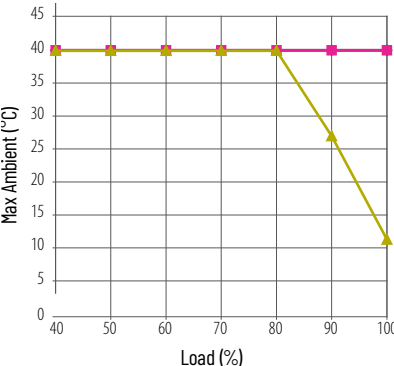
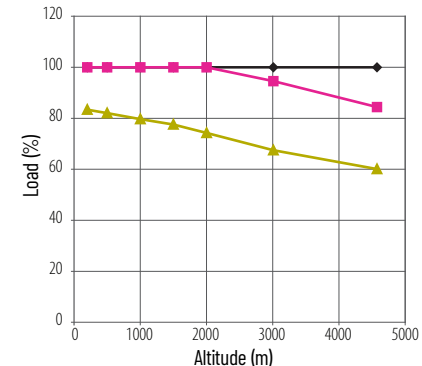
Ambient Temperature and Altitude Derating for IP00, UL Open Type—480V AC (Continued)



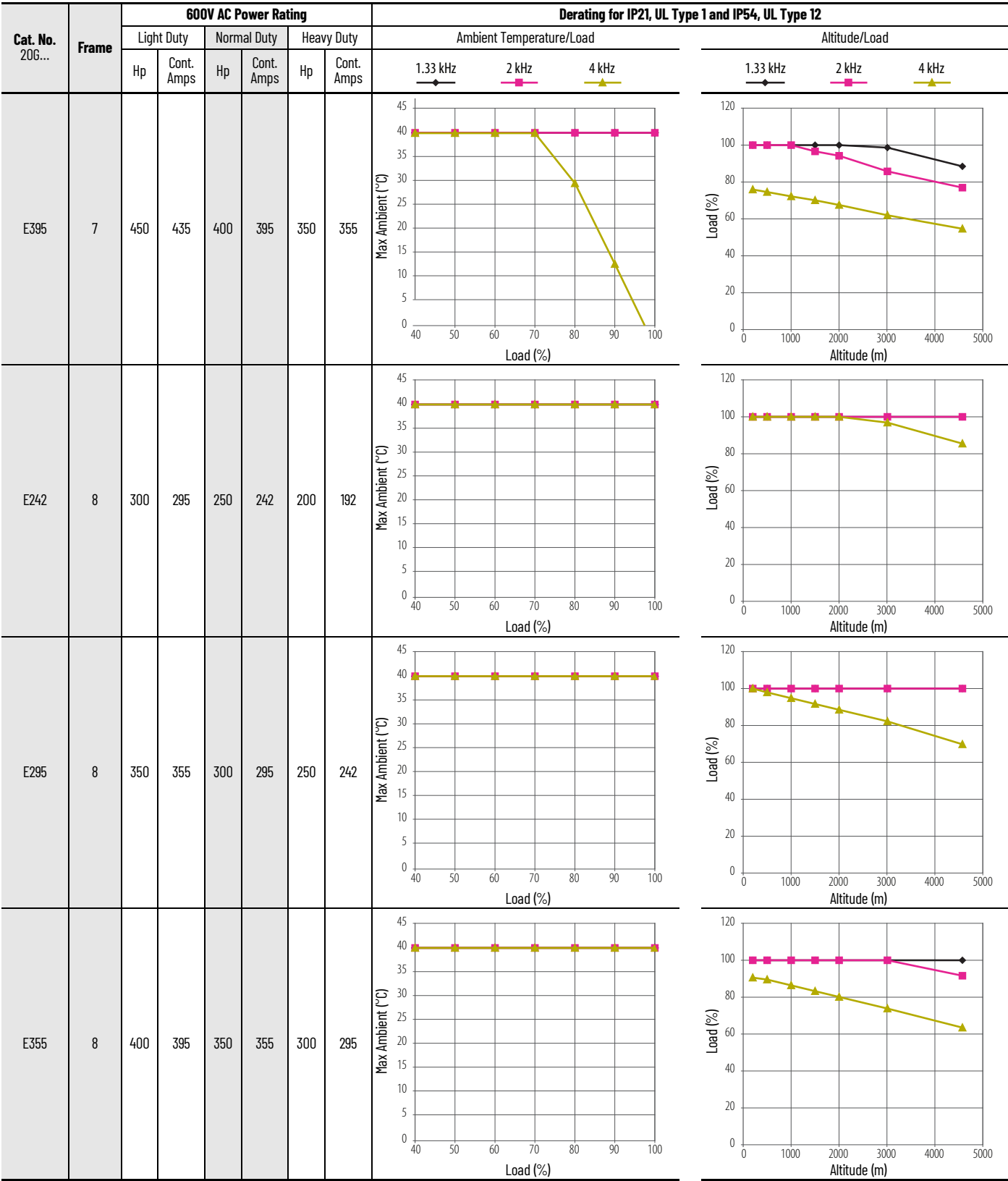
Ambient Temperature and Altitude Derating for IP00, UL Open Type—480V AC (Continued)



Ambient Temperature and Altitude Derating for IP00, UL Open Type—600V AC

Cat. No. 206...	Frame	600V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load			Altitude/Load		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz —●—	2 kHz —■—	4 kHz —▲—	1.33 kHz —●—	2 kHz —■—	4 kHz —▲—
E192	7	250	242	200	192	150	144						
E242	7	300	295	250	242	200	192						
E295	7	350	355	300	295	250	242						
E355	7	400	395	350	355	300	295						

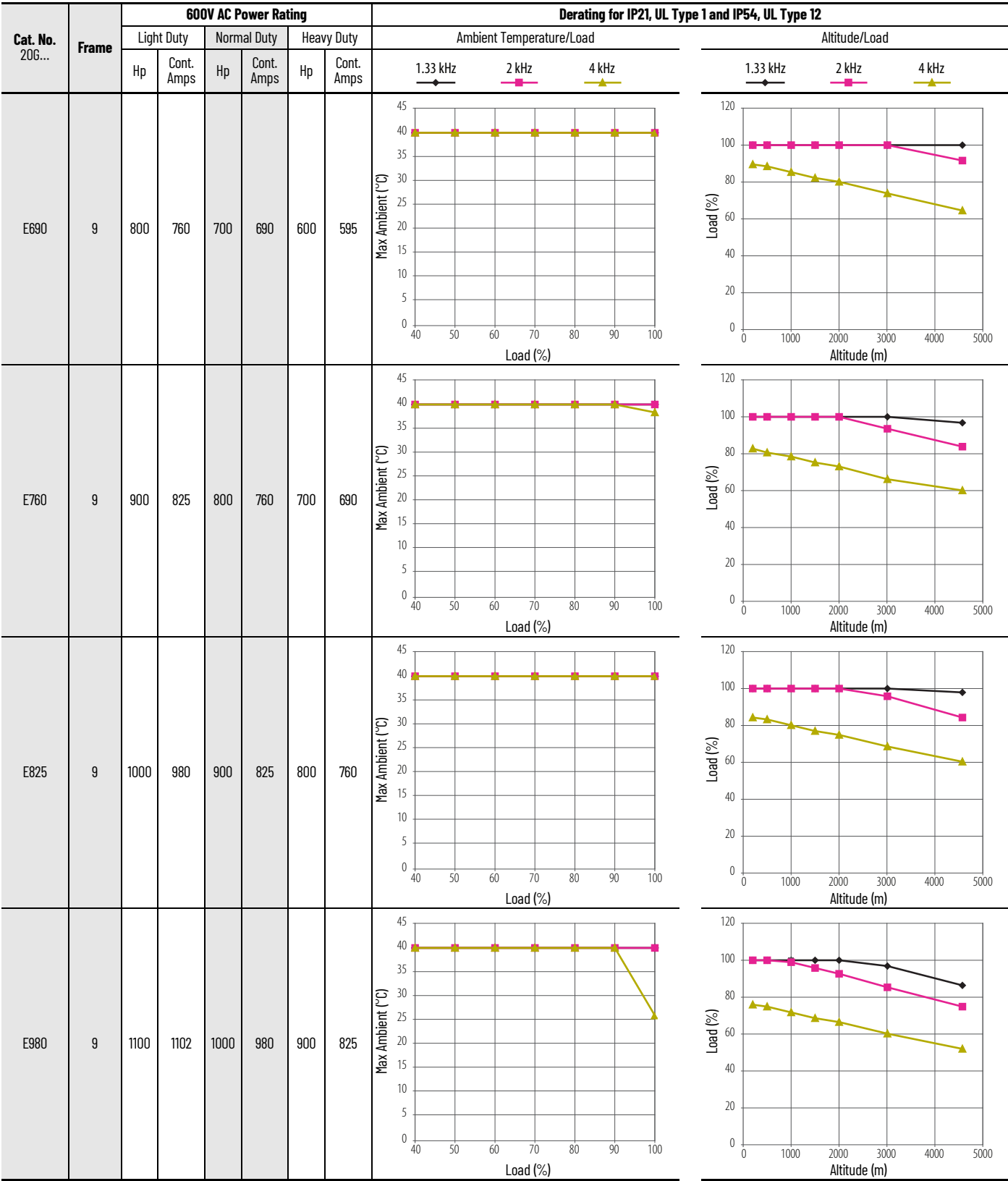
Ambient Temperature and Altitude Derating for IP00, UL Open Type—600V AC (Continued)



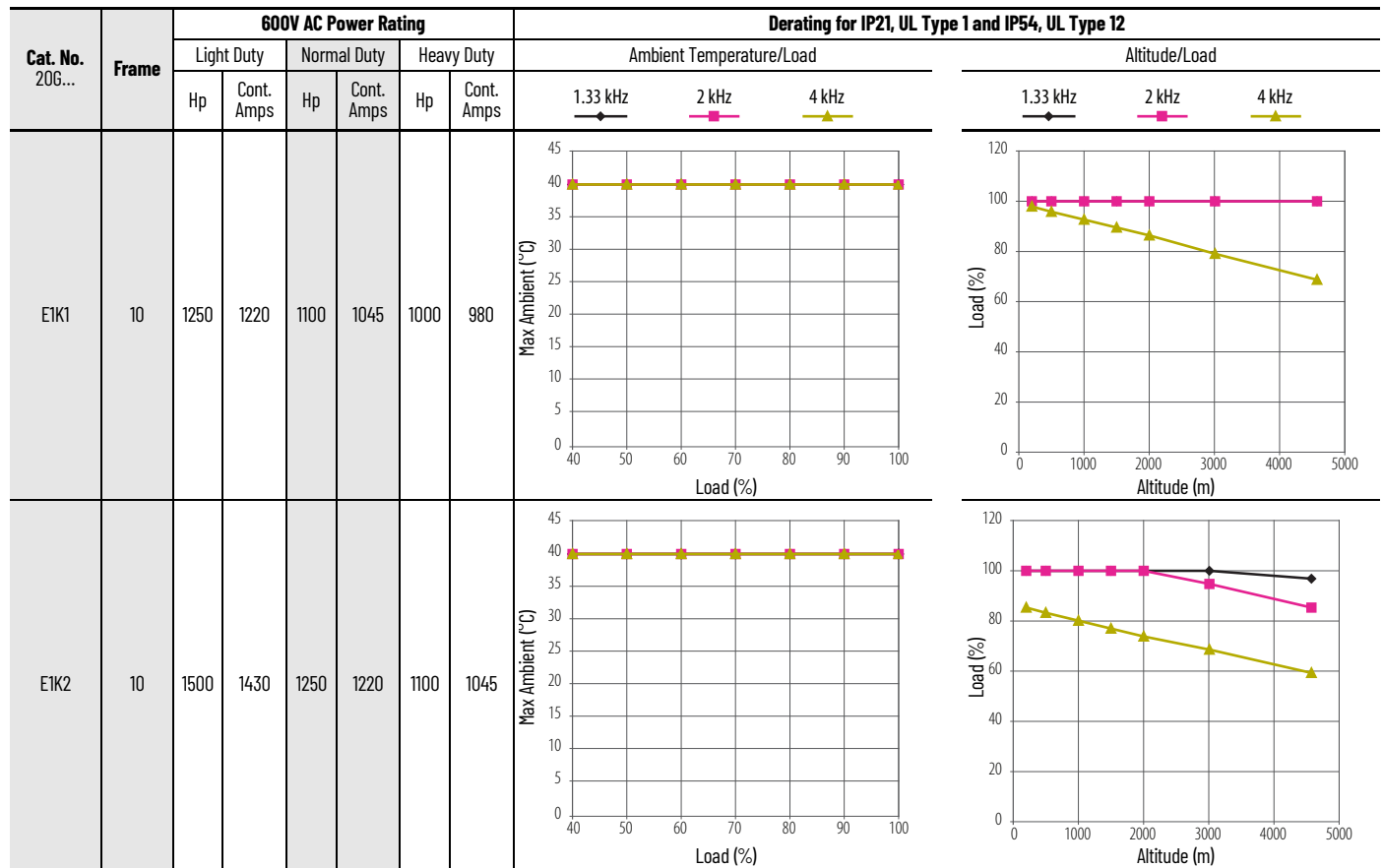
Ambient Temperature and Altitude Derating for IP00, UL Open Type—600V AC (Continued)

Cat. No. 206...	Frame	600V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load			Altitude/Load		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz	2 kHz	4 kHz	1.33 kHz	2 kHz	4 kHz
E395	8	450	435	400	395	350	355						
C435	8	500	510	450	435	400	395						
E545	8	600	580	550	545	450	450						
E595	9	700	690	600	580	550	545						

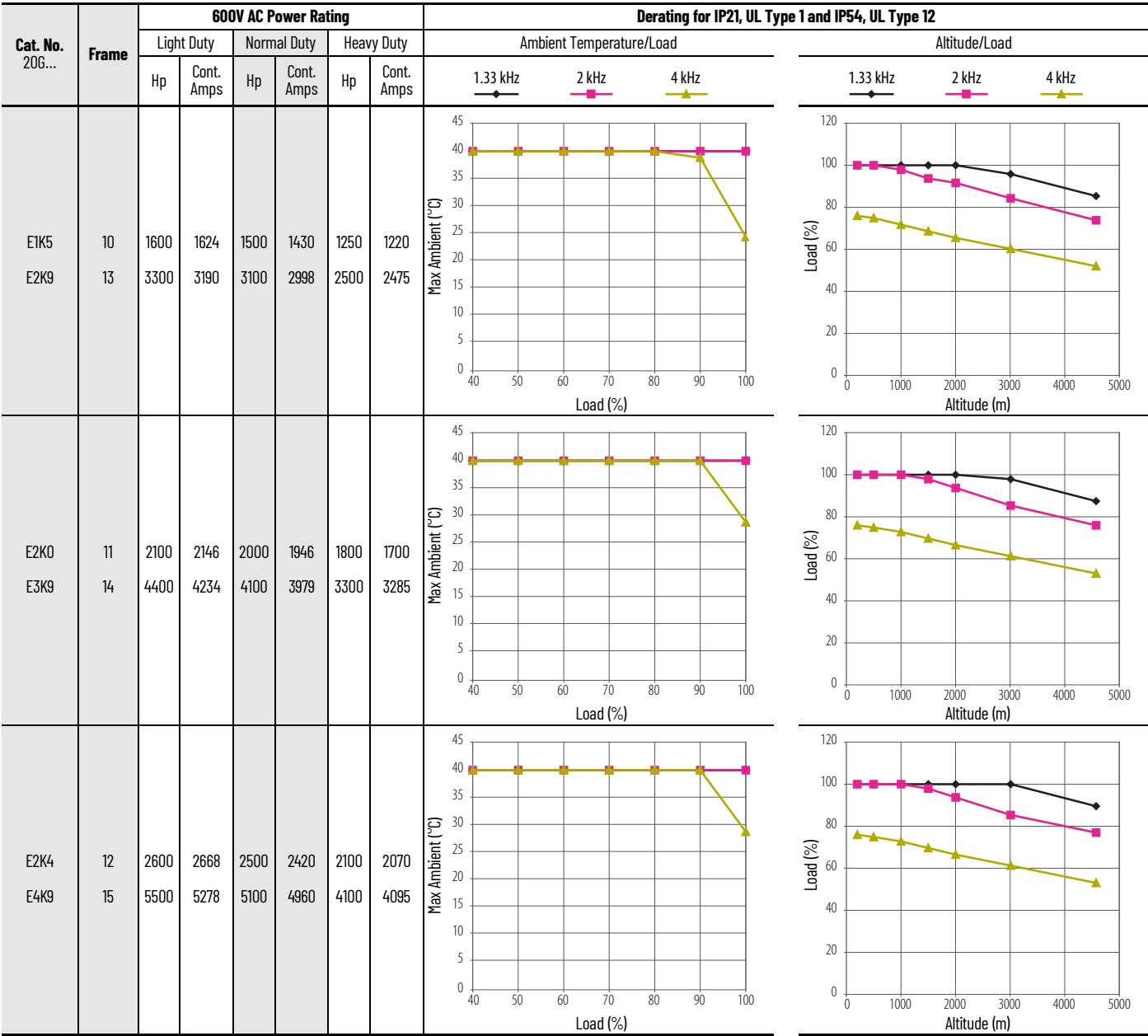
Ambient Temperature and Altitude Derating for IP00, UL Open Type—600V AC (Continued)



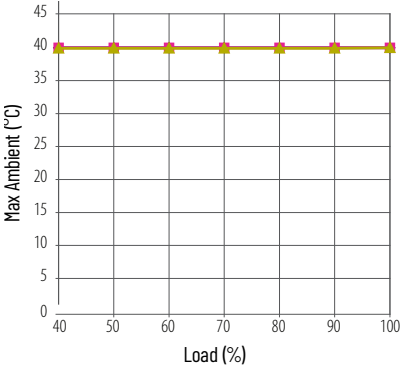
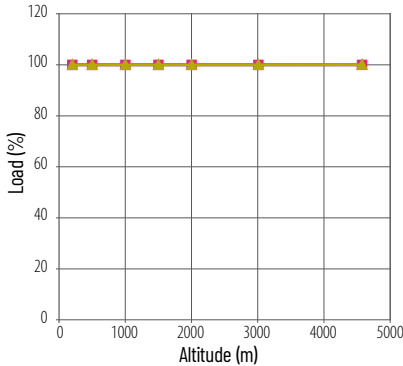
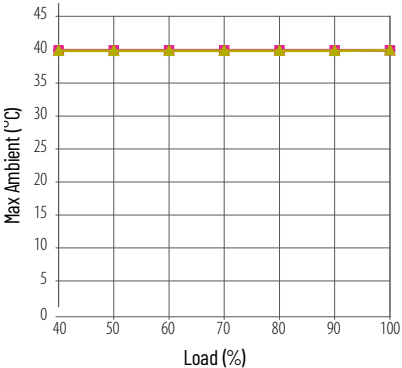
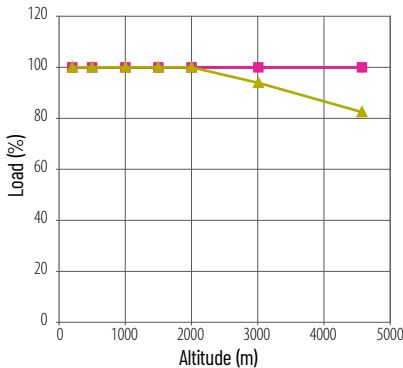
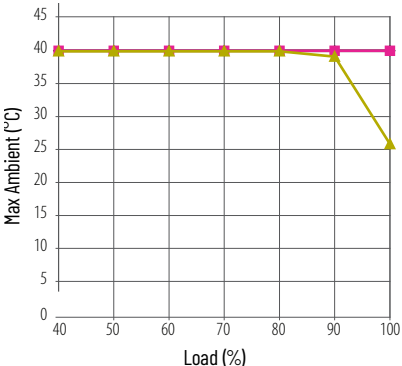
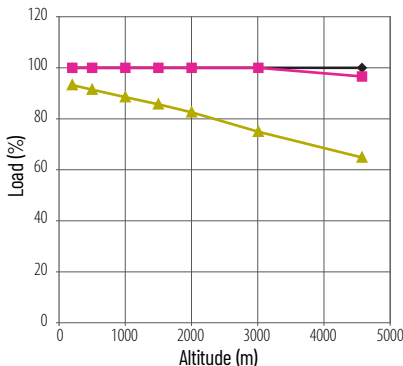
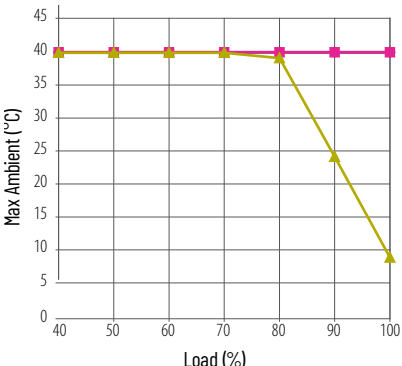
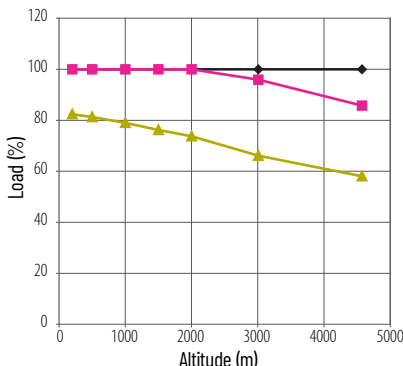
Ambient Temperature and Altitude Derating for IP00, UL Open Type—600V AC (Continued)



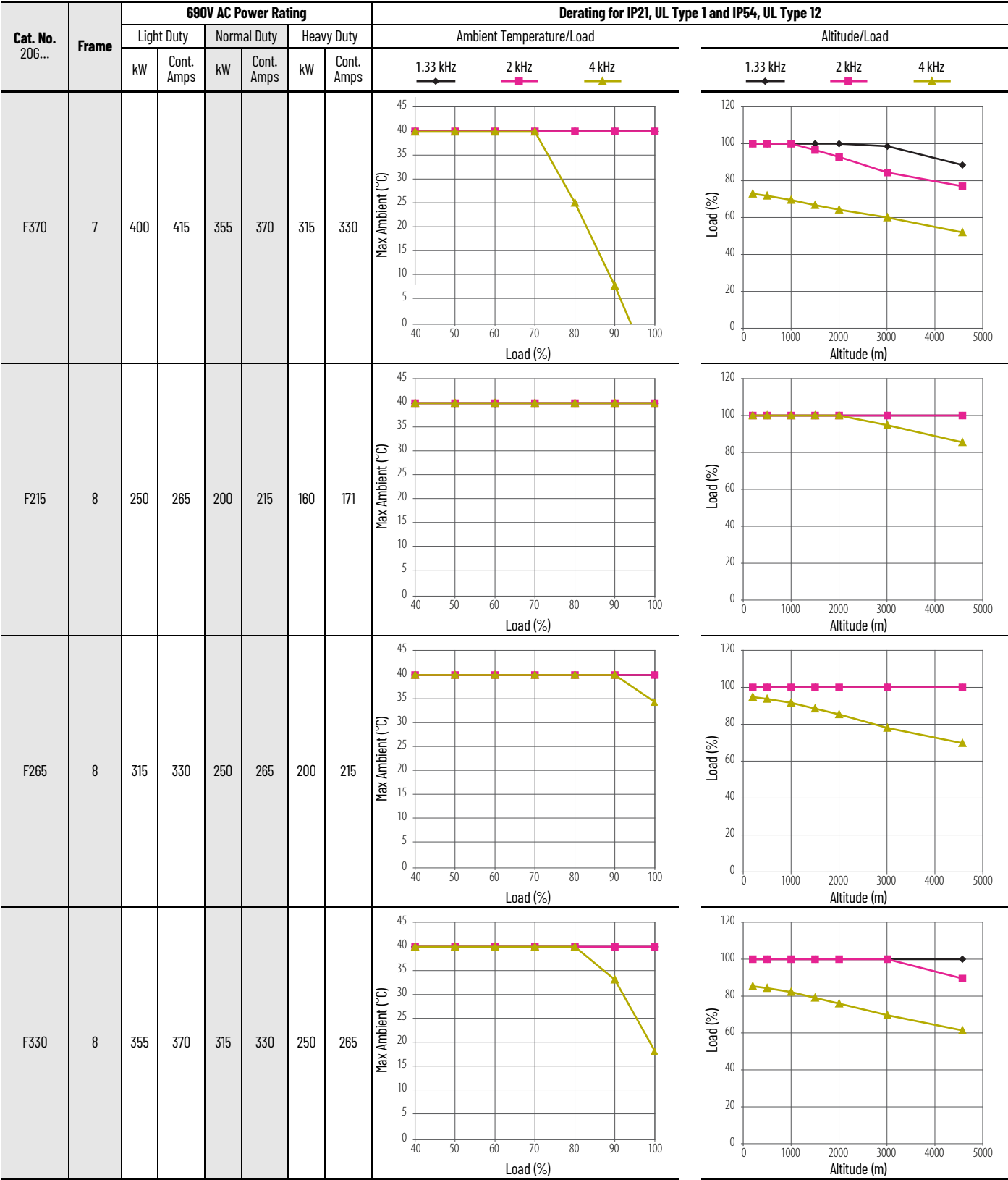
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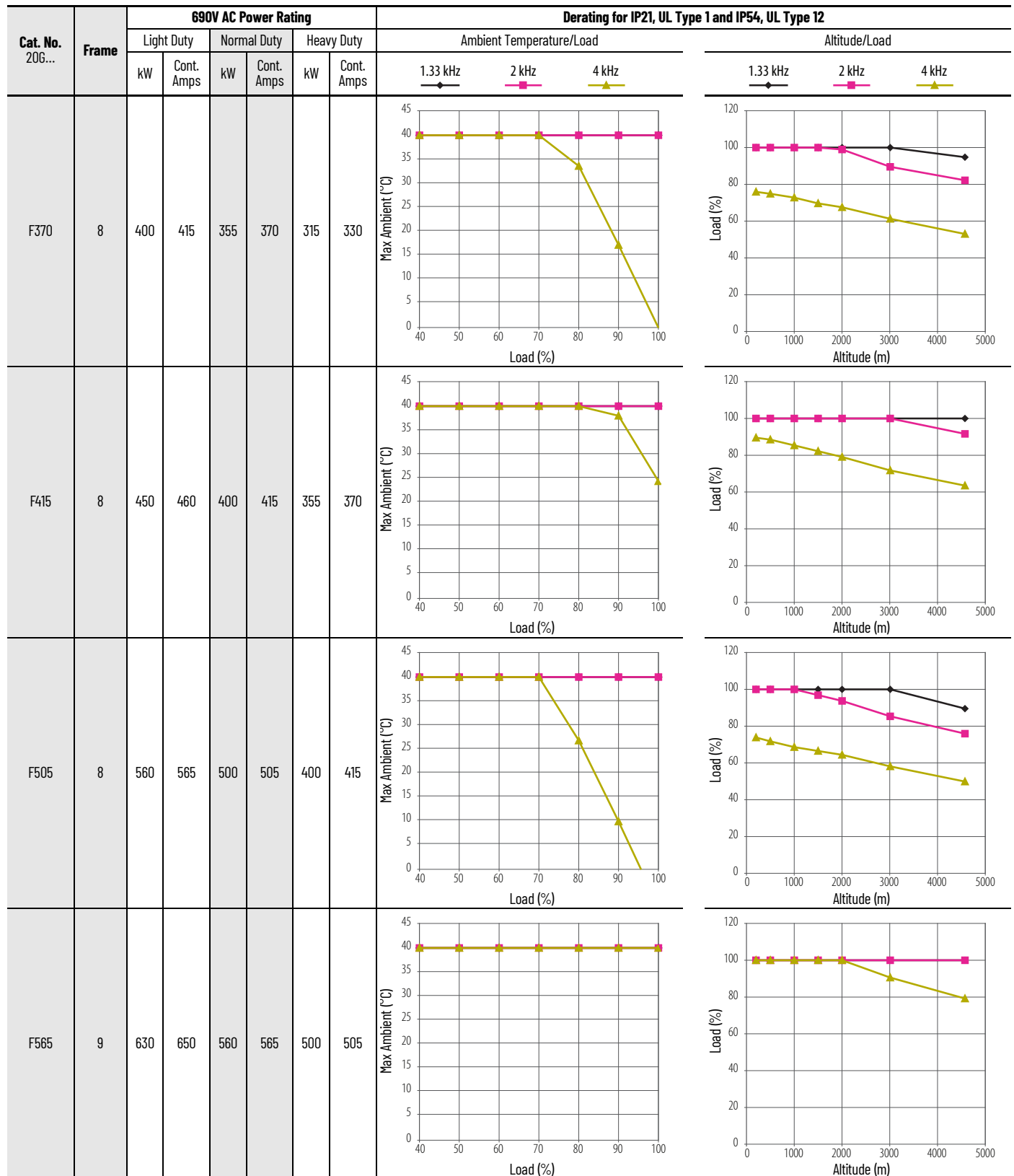
Ambient Temperature and Altitude Derating for IP00, UL Open Type—690V AC

Cat. No. 206...	Frame	690V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12					
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load			Altitude/Load		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz	2 kHz	4 kHz	1.33 kHz	2 kHz	4 kHz
F171	7	200	215	160	171	132	142						
F215	7	250	265	200	215	160	171						
F265	7	315	330	250	265	200	215						
F330	7	355	370	315	330	250	265						

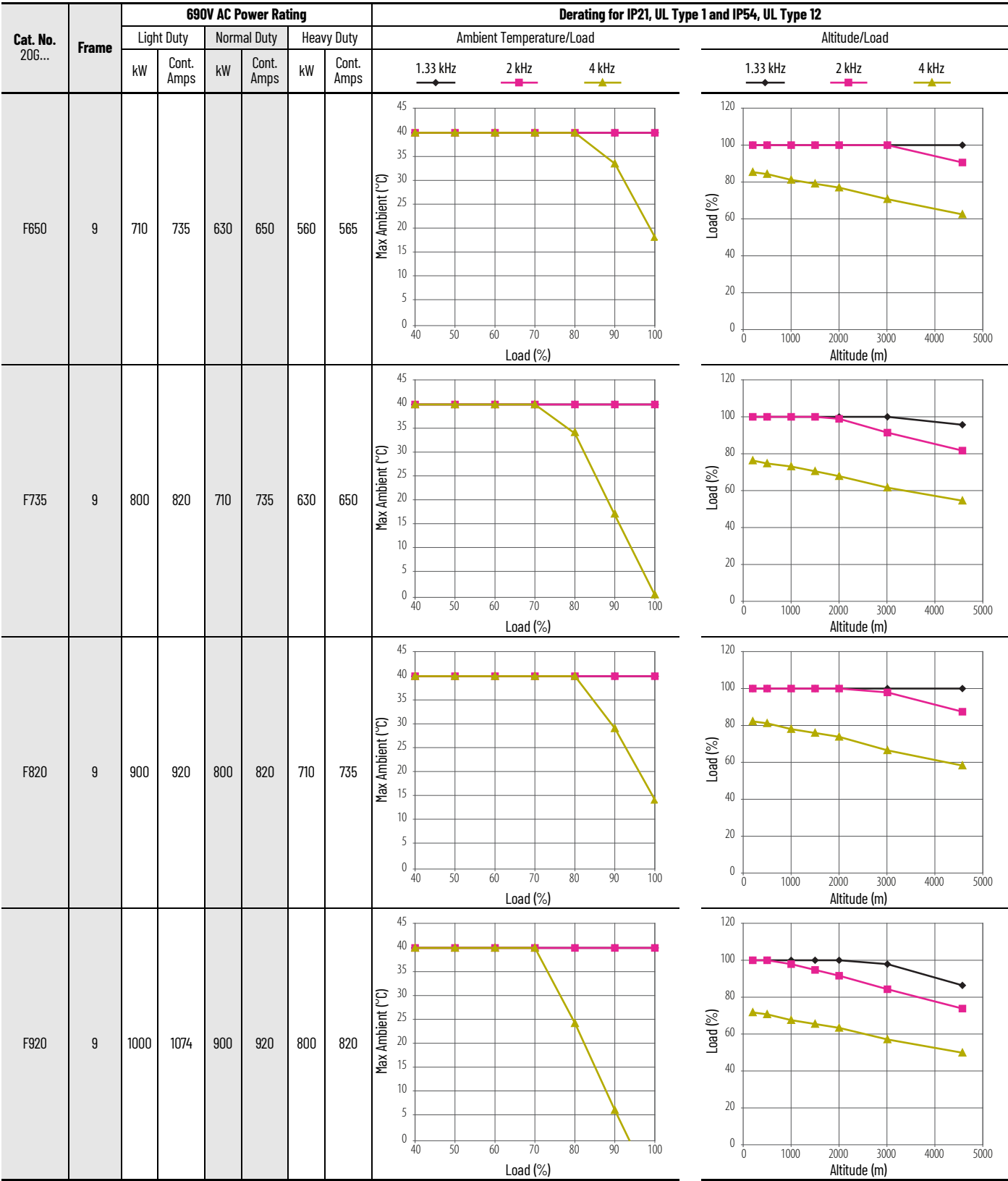
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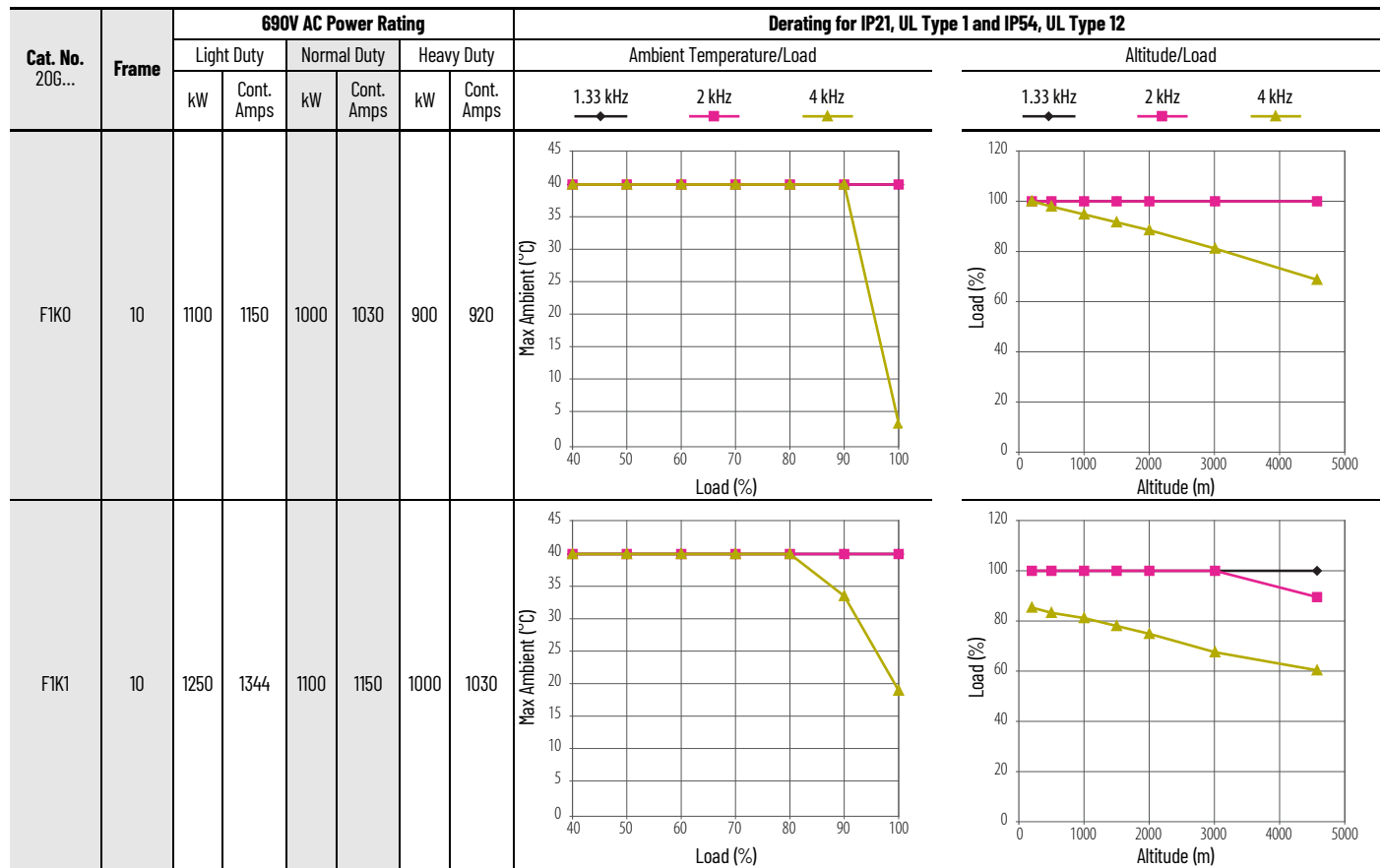
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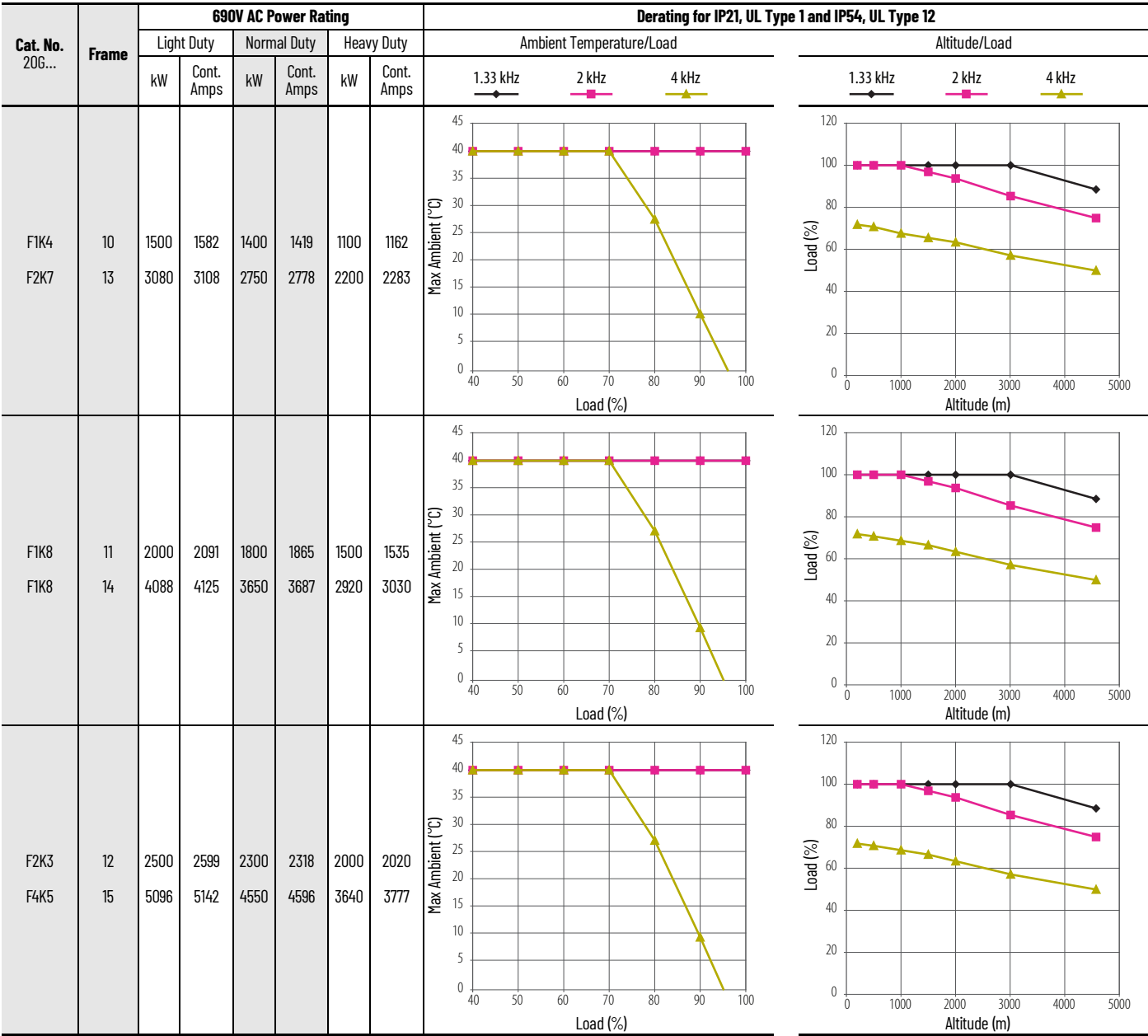
Ambient Temperature and Altitude Derating for IP00, UL Open Type—690V AC (Continued)



Ambient Temperature and Altitude Derating for IP00, UL Open Type—690V AC (Continued)



Ambient Temperature and Altitude Derating for IP00, UL Open Type—690V AC (Continued)



Circuit Breaker Derating

Circuit breakers have the following derating based on altitude (UL and IEC ratings). The Emax circuit breaker is used in 400/480V Frames 11 and 12 only (highest current rating). All other voltages and frames use the Tmax breakers. See [AC Precharge Circuit Breakers \(Supplier: ABB\) on page 127](#) for more information.

Tmax

Altitude m (ft.)	UL Rated Service Voltage (V)	IEC Rated Service Voltage (V)	UL Rated Current (%A)	IEC Rated Current (%A)
<2000 (<6600)	600	690	100	100
3000 (9900)	522	607	98	98
4000 (13200)	435	538	93	93
5000 (16500)	348	469	90	90

Emax

Altitude m (ft.)	UL Rated Service Voltage (V)	IEC Rated Service Voltage (V)	UL Rated Current (%A)	IEC Rated Current (%A)
<2000 (<6600)	600	690	100	100
3000 (9900)	600	607	98	98
4000 (13200)	500	538	93	93
5000 (16500)	440	469	90	90

Cable Considerations: Types Acceptable for 400...690V Installations

A variety of cable types are acceptable for drive installations. For an in-depth discussion of cable types, including a table of maximum motor cable lengths, refer to the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication [750-IN101](#) or Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication [DRIVES-IN001](#).

Selection Considerations

Type		Cable Type	Description	Min. Insulation Rating
Input Power ⁽¹⁾⁽²⁾	Standard	–	All frame sizes: Three tinned copper conductors with XLPE insulation. Copper braid/aluminum foil combination shield and tinned copper drain wire, three drain wires per cable assembly. PVC jacket.	600V, 75 °C (167 °F) ⁽³⁾
Motor	Standard	–	Frame 7 Maximum 350 MCM dual conductor per phase. Maximum 500 MCM single conductor per phase. Frame 8...15 Maximum 500 MCM conductors.	400...600V systems: 600V, 75 °C (167 °F) 690V systems: 2000V, 90 °C (194 °F)
Signal ⁽¹⁾⁽⁴⁾⁽⁵⁾	Standard Analog I/O	–	0.750 mm ² (18 AWG), twisted pair, 100% shield w/drain.	300V, 75...90 °C (167...194 °F)
	Remote Pot	–	0.750 mm ² (18 AWG), 3 conductor, shielded.	
	Encoder/ Pulse I/O <30 m (100 ft)	Combined	0.196 mm ² (24 AWG) individually shielded pairs.	
	Encoder/ Pulse I/O 30...152 m (100...500 ft)	Signal	0.196 mm ² (24 AWG) individually shielded pairs.	
		Power	0.750 mm ² (18 AWG) in.dividually shielded pairs	
		Combined	0.330 mm ² (22 AWG), power is 0.500 mm ² (20 AWG) individually shielded pairs.	
	Encoder/ Pulse I/O 152...259 m (500...850 ft.)	Signal	0.196 mm ² (24 AWG) individually shielded pairs.	
		Power	0.750 mm ² (18 AWG) individually shielded pairs.	
		Combined	0.750 mm ² (18 AWG) individually shielded pairs.	
Control Power	Unshielded	–	Per US NEC or applicable national or local code.	300V, 60 °C (140 °F)
Digital I/O Safety Inputs Homing Inputs ⁽¹⁾⁽⁴⁾⁽⁵⁾	Unshielded	–	Per US NEC or applicable national or local code.	300V, 60 °C (140 °F)
	Shielded	Multi-conductor shielded cable	0.750 mm ² (18 AWG), 3 conductor, shielded.	

(1) Signal wires should be separated from power wires by at least 0.3 meters (1 foot).

(2) The use of shielded wire for AC input power is not required, but is always recommended.

(3) The minimum insulation rating for input power wire must be at least equal to the nominal system voltage rating.

(4) If the wires are short and contained within a cabinet which has no sensitive circuits, the use of shielded wire may not be necessary, but is always recommended.

(5) I/O terminals labeled "(–)" or "Common" are not referenced to earth ground and are designed to greatly reduce common mode interference. Grounding these terminals can cause signal noise. For CE installations, 115V I/O must use shielded cable or have a cable length less than 30 m (98 ft).

Required Enclosure Airflow Rates

The tables in this section provide the required volumetric airflow rates for each PowerFlex 755T product and Non-Regenerative Supply. The tables are organized by product and include airflow rates for input bay or control bay fans (where applicable) and power or NRS modules. Airflow rates for wire entry and exit bays and DC voltage balance bays are listed in separate tables.

For these airflow tables, the following conventions apply:

- CFM = Cubic Feet per Minute
- CMS = Cubic Meter per Second
- 1 CFM = 0.00047194745 CMS

PowerFlex 755TL/TR Low Harmonic / Regenerative Drive (IP21 and IP54)⁽¹⁾

Frame Size	Quantity of Input Bay Fans	Airflow per Input Bay Fan [CFM (CMS)]	Static Pressure (inH ₂ O)	Total Airflow Rate for Input Bay Fans [CFM (CMS)]	Number of Modules (LCL Filter + Line Side Converter + Motor Side Inverter)	Airflow Rate Per Module [CFM (CMS)]	Total Airflow Rate for All Modules [CFM (CMS)]	Total System Airflow Rate ⁽²⁾ [CFM (CMS)]
7	—	—	—	—	3 (contained in one power bay)	LCL Filter Module: 810 (0.38) Power Module: 825 (0.39)	2460 (1.16)	2460 (1.16)
7L	—	—	—	—	3 (contained in one power bay)	LCL Filter Module: 810 (0.38) Power Module: 365 (0.17)	1540 (0.73)	1540 (0.73)
8	1	275 (0.13)	0.5	275 (0.13)	3 (contained in one power bay)	700 (0.33)	2100 (1.00)	2375 (1.12)
9					5 (contained in two power bays)		3500 (1.65)	3775 (1.78)
10	2	350 (0.17)	2.25	700 (0.33)	8 (contained in three power bays)		5600 (2.64)	6300 (2.97)
11					10 (contained in four power bays)		7000 (3.30)	7700 (3.63)
12					13 (contained in five power bays)		9100 (4.29)	9800 (4.63)
13	4			1400 (0.66)	16 (contained in six power bays)		11,200 (5.29)	12,600 (5.95)
14					20 (contained in eight power bays)		14,000 (6.61)	15,400 (7.27)
15					26 (contained in ten power bays)		18,200 (8.59)	19,600 (9.25)

(1) This table does not include optional or required wire entry/exit and DC voltage balance bay fan CFM values. See Entry/Exit Wire Bay (IP21/IP54) and DC Voltage Balance Bay (IP21/IP54) on page 257.

(2) Power bay IP54 roof vent fans are not included in the required airflow Total CFM and Total CMS airflow rates. See IP54 Roof Vent Fans on page 258 in this section.

PowerFlex 755TM Regenerative Bus Supply (IP21 and IP54)⁽¹⁾

Frame Size	Quantity of Input Bay Fans	Airflow per Input Bay Fan [CFM (CMS)]	Static Pressure (inH ₂ O)	Total Airflow Rate for Input Bay Fans [CFM (CMS)]	Number of Modules (LCL Filter + Line Side Converter)	Airflow Rate Per Module [CFM (CMS)]	Total Airflow Rate for All Modules [CFM (CMS)]	Total System Airflow Rate ⁽²⁾ [CFM (CMS)]
7	—	—	—	—	2 (contained in one power bay)	LCL Filter Module: 810 (0.38) Power Module: 825 (0.39)	1635 (0.77)	1635 (0.77)
8	1	275 (0.13)	0.5	275 (0.13)	2 (contained in one power bay)	700 (0.33)	1400 (0.66)	1675 (0.79)
9					3 (contained in one power bay)		2100 (1.00)	2375 (1.12)
10	2	350 (0.17)	2.25	700 (0.33)	5 (contained in two power bays)		3500 (1.65)	4200 (1.98)
11					6 (contained in two power bays)		4200 (1.98)	4900 (2.31)
12					8 (contained in three power bays)		5600 (2.64)	6300 (2.97)
13	4			1400 (0.66)	10 (contained in four power bays)		7000 (3.30)	8400 (3.96)
14					12 (contained in four power bays)		8400 (3.96)	9800 (4.63)
15					16 (contained in six power bays)		11,200 (5.29)	12,600 (5.95)

(1) This table does not include optional or required wire entry and DC voltage balance bay fan CFM values. See Entry/Exit Wire Bay (IP21/IP54) and DC Voltage Balance Bay (IP21/IP54) on page 257.

(2) Power bay IP54 roof vent fans are not included in the required airflow Total CFM and Total CMS airflow rates. See IP54 Roof Vent Fans on page 258 in this section.

PowerFlex 755TM Common Bus Inverter (IP21 and IP54)⁽¹⁾

Frame Size	Quantity of Control Bay Fans	Airflow Per Control Bay Fan [CFM (CMS)]	Static Pressure (inH ₂ O)	Total Airflow Rate for Input Bay Fans [CFM (CMS)]	Number of Modules (Motor Side Inverter Only)	Airflow Rate Per Module [CFM (CMS)]	Total Airflow Rate for All Modules [CFM (CMS)]	Total System Airflow Rate ⁽²⁾ [CFM (CMS)]
8	1	275 (0.13)	0.5	275 (0.13)	1 (contained in one power bay)	700 (0.33)	700 (0.33)	975 (0.46)
9					2 (contained in one power bay)		1400 (0.66)	1675 (0.79)
10					3 (contained in one power bay)		2100 (1.00)	2375 (1.12)
11					4 (contained in two power bays)		2800 (1.32)	3075 (1.45)
12					5 (contained in two power bays)		3500 (1.65)	3775 (1.78)
13	2	275 (0.13)	0.5	550 (0.26)	6 (contained in two power bays)		4200 (1.98)	4750 (2.24)
14					8 (contained in four power bays)		5600 (2.64)	6150 (2.90)
15					10 (contained in four power bays)		7000 (3.30)	7550 (3.56)

(1) This table does not include optional or required wire exit and DC voltage balance bay fan CFM values. See Entry/Exit Wire Bay (IP21/IP54) and DC Voltage Balance Bay (IP21/IP54) on page 257.

(2) Power bay IP54 roof vent fans are not included in the required airflow Total CFM and Total CMS airflow rates. See IP54 Roof Vent Fans on page 258 in this section.

PowerFlex 755TM Non-Regenerative Supply (IP21 and IP54)⁽¹⁾

NRS System Configuration	Quantity of NRS 1X Modules ⁽²⁾	Airflow Rate Per 1X Module Fan [CFM (CMS)]	Total Airflow Rate for 1X Modules Fans [CFM (CMS)]	Quantity of NRS 2X Modules ⁽²⁾	Airflow Rate Per 2X Module Fan [CFM (CMS)]	Total Airflow Rate for 2X Modules Fans [CFM (CMS)]	Total NRS Module Airflow Rate [CFM (CMS)]
1X	1	439 (0.21)	439 (0.21)	—	—	—	439 (0.21)
2X	—	—	—	1	692 (0.33)	692 (0.33)	692 (0.33)
1X+2X	1	439 (0.21)	439 (0.21)				1131 (0.53)
2X+2X	—	—	—	2		1384 (0.65)	1384 (0.65)
2X+2X+1X	1	439 (0.21)	439 (0.21)			1384 (0.65)	1823 (0.86)
2X+2X+2X	—	—	—			2076 (0.98)	2076 (0.98)
2 (2X+1X)	2	439 (0.21)	878 (0.41)	2		1384 (0.65)	2262 (1.07)
2 (2X+2X)	—	—	—	4		2768 (1.30)	2768 (1.30)
2 (2X+2X+1X)	2	439 (0.21)	878 (0.41)	4		2768 (1.30)	3646 (1.72)
2 (2X+2X+2X)	—	—	—	6		4152 (1.96)	4152 (1.96)

(1) This table does not include optional or required wire exit and DC voltage balance bay fan CFM values. See Entry/Exit Wire Bay (IP21/IP54) and DC Voltage Balance Bay (IP21/IP54) on page 257.

(2) Each NRS module must be installed in a 400 mm wide power bay.

Entry/Exit Wire Bay (IP21/IP54)

Wire Bay (WB) Width (mm)	Quantity of Wire Bay Fans	Static Pressure (inH ₂ O)	Airflow Rate Per WB Fan [CFM (CMS)]	Frame Size	NRS System Configuration
400	1	0.12	59 (0.03)	8...10, 13	1X, 2X, 1X + 2X
800		0.8	177 (0.08)	11, 12, 14, 15	2X + 2X, 2X + 2X + 1X, 2X+2X+2X, 2 (2X+1X), 2 (2X+2X), 2 (2X+2X+1X), 2 (2X+2X+2X)

DC Voltage Balance Bay (IP21/IP54)

DC Voltage Balance Bay (DCVBB) Width (mm)	Quantity of DCVBB Bay Fans ⁽¹⁾	Static Pressure (inH ₂ O)	Airflow Rate Per WB Fan [CFM (CMS)]	Total Airflow Rate for All Fans [CFM (CMS)]	Frame Size	NRS System Configuration
400	2	0.12	59 (0.03)	118 (0.06)	13	2 (2X+1X)
800		0.8	177 (0.08)	354 (0.17)	14, 15	2 (2X+2X), 2 (2X+2X+1X)

(1) DC voltage balance bays are used for back-to-back configurations and include two bays.

IP54 Roof Vent Fans

When installed on an IP54 rated power bay, the IP54 roof vent fan kits assist the LCL filter and power module fans to sustain the correct rate of airflow. The IP54 roof vent fans are required due to the high-resistance dust filter media in the IP54 door and roof vents. The airflow rates and number of roof vent kits that are required for power bays are included in this table. NRS power bays do not require roof vent fans.

IP54 Roof Vent Fan Airflow Rates

Power Bay Width (mm)	Number of Required IP54 Roof Vent Kits/Fans	CFM per Fan at 1.75 in-H ₂ O	Total CFM	m ³ /hr per Fan at 435 Pa	Total m ³ /hr
400	1	1400	1400	2379	2379
600	1	1400	1400	2379	2379
800	2	1400	2800	2379	4758

Enclosure Options

IMPORTANT	IP21, UL Type 1 PowerFlex 750-Series drives must be installed in a clean, dry location. Contaminants such as oils, corrosive vapors and abrasive debris must be kept out of the enclosure. These enclosures are intended for indoor use primarily to provide a degree of protection against contact with enclosed equipment. These enclosures offer no protection against airborne contaminants. See the following tables for an explanation of enclosure options and the environmental specifications that are found on page 6 . See Industry Installation Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-ATO03 for additional information.
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Pollution Degree Ratings According to EN 61800-5-1

Pollution Degree	Description
1	No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.
2	Normally, only non-conductive pollution occurs. Occasionally, however, a temporary conductivity that is caused by condensation is to be expected, when the drive is out of operation.
3	Conductive pollution or dry non-conductive pollution occurs, which becomes conductive due to condensation, which is to be expected.
4	The pollution generates persistent conductivity that is caused, for example by conductive dust or rain or snow.

Product Enclosure Ratings

Frames	Enclosure Type	Pollution Degree
7...15, 7L, and NRS	IP21, UL Type 1	PowerFlex 755TM IP00 Open Type kits meet Pollution Degree 2 per UL61800-5-1 when installed in an IP21, UL Type 1 enclosure.
	IP54, UL Type 12	PowerFlex 755TM IP00 Open Type kits meet Pollution Degree 4 per UL61800-5-1 when installed in an IP54, UL Type 12 enclosure.

Liquid Cooling Loop Requirements

Proper liquid cooling is critical to equivalent frame 7L drive operation and reliability. This section provides an overview of a typical drive cooling loop, cooling loop specifications, and the recommended cooling loop components for an equivalent frame 7L liquid-cooled drive. All cooling loop components are customer sourced.

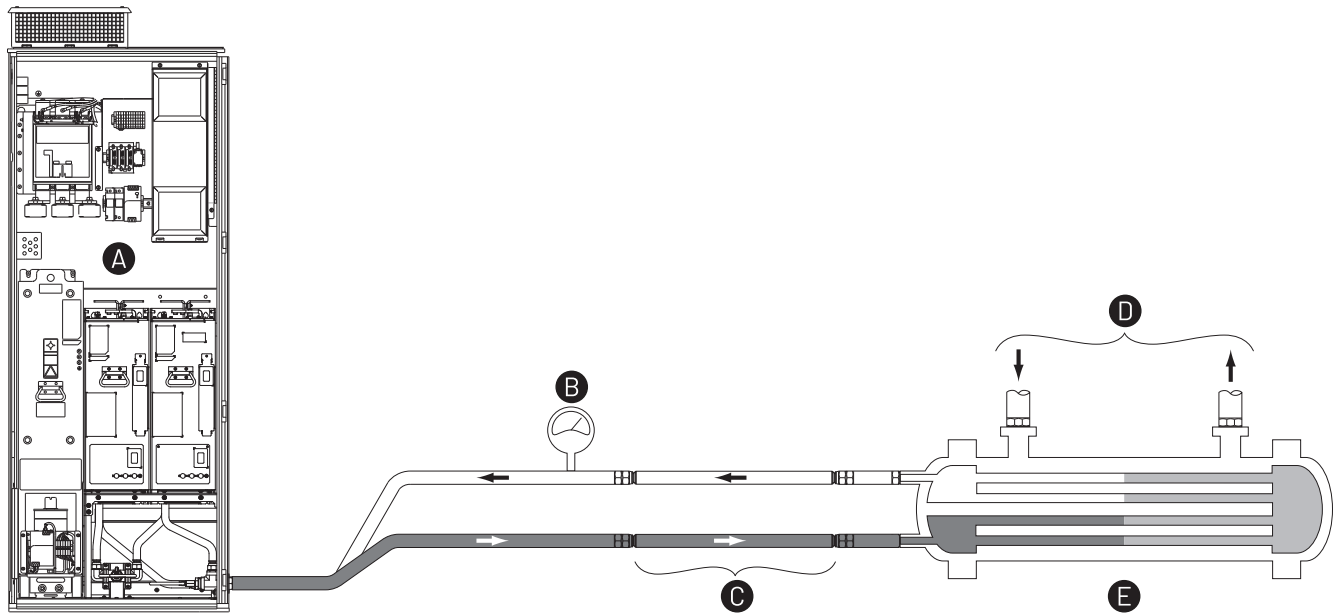
For cooling loop application guidelines and coolant requirements, see the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication [750-IN101](#).

Liquid-to-Liquid Heat Exchanger Cooling Loop

The liquid-to-liquid heat exchanger uses a heat transfer plate to transfer heat from one liquid to another. This method requires a stable water supply from the user.

Liquid-to-Liquid Heat Exchanger Diagram

This figure shows a typical liquid-to-liquid heat exchanger cooling loop system.

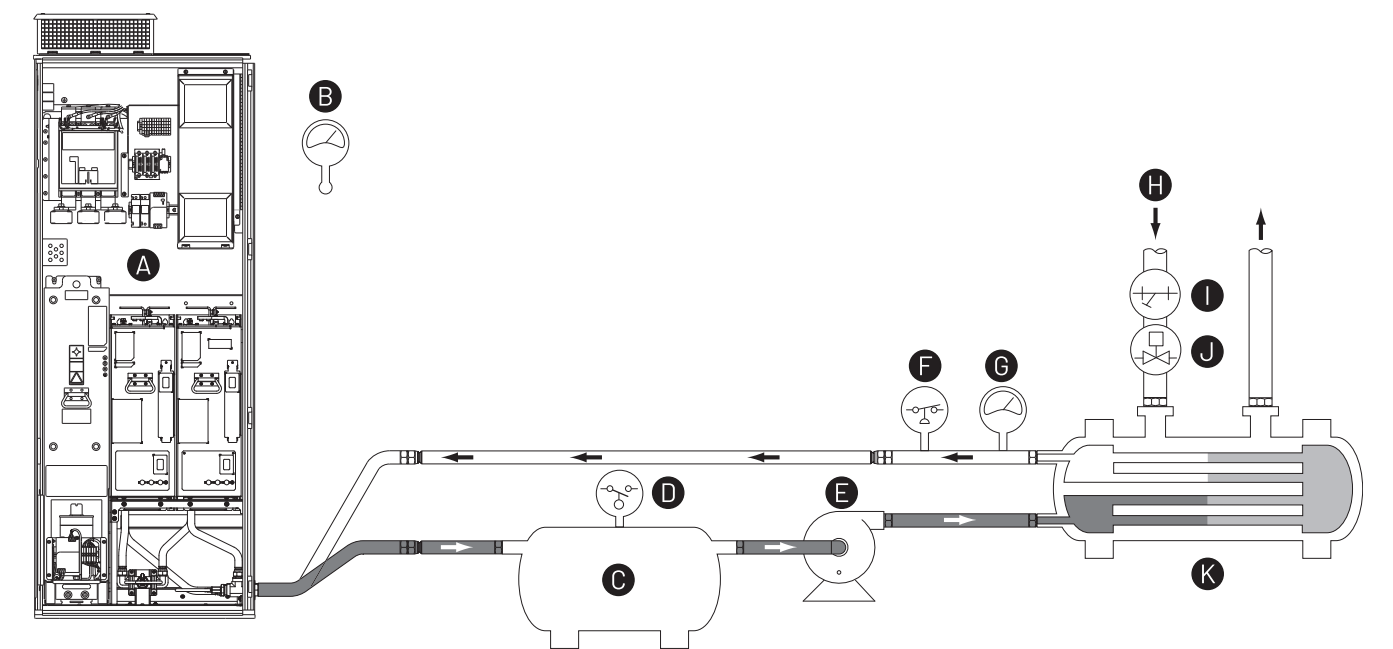


Item	Component Name	Description
A	Equivalent PowerFlex 755TR frame 7L drive	—
B	Flow indicator	Provides a visual indication of the presence or approximate rate of coolant flow.
C	Coolant hoses	Transfers the coolant in the system.

Item	Component Name	Description
D	Customer connections to facility water supply	—
E	Liquid-to-liquid heat exchanger	Transfers heat from the drive loop to the supply loop.

Liquid-to-Liquid Heat Exchanger Plumbing Diagram

This figure provides a diagram of the plumbing components used in a typical liquid-to-liquid heat exchanger cooling loop system.



Item	Component Name	Description
A	Equivalent PowerFlex 755TR frame 7L drive	—
B	Ambient temperature sensor	Senses the ambient temperature used for the dew point control.
C	Reservoir	Allows for expansion of the coolant.
D	Level switch	Senses the level of coolant in the reservoir.
E	Pump	Circulates drive coolant.
F	Coolant flow switch	Measures the drive coolant flow rate.

Item	Component Name	Description
G	Coolant temperature sensor	Senses the drive coolant temperature used for the dew point control.
H	Facility water supply	—
I	Strainer	Filters particles from the supply water.
J	Control valve	Controls the supply loop water flow.
K	Liquid-to-liquid heat exchanger	Transfers heat from the drive loop to the supply loop.

Equivalent Frame 7 Drive Cooling Loop Specifications

The rated working pressure of an equivalent frame 7L drive is 2.4 bar (35 psi). Maximum working pressure is 3.4 bar (50 psi). Size the coolant supply and return lines for 76 LPM (20 gpm) / 2.4 bar (35 psi) service with a maximum operating temperature of 40 °C (104 °F). The required operating flow rate and pressure drop is specified in the Coolant Requirements for One Equivalent Frame 7L Drive table.

Coolant Requirements for One Equivalent Frame 7L Drive

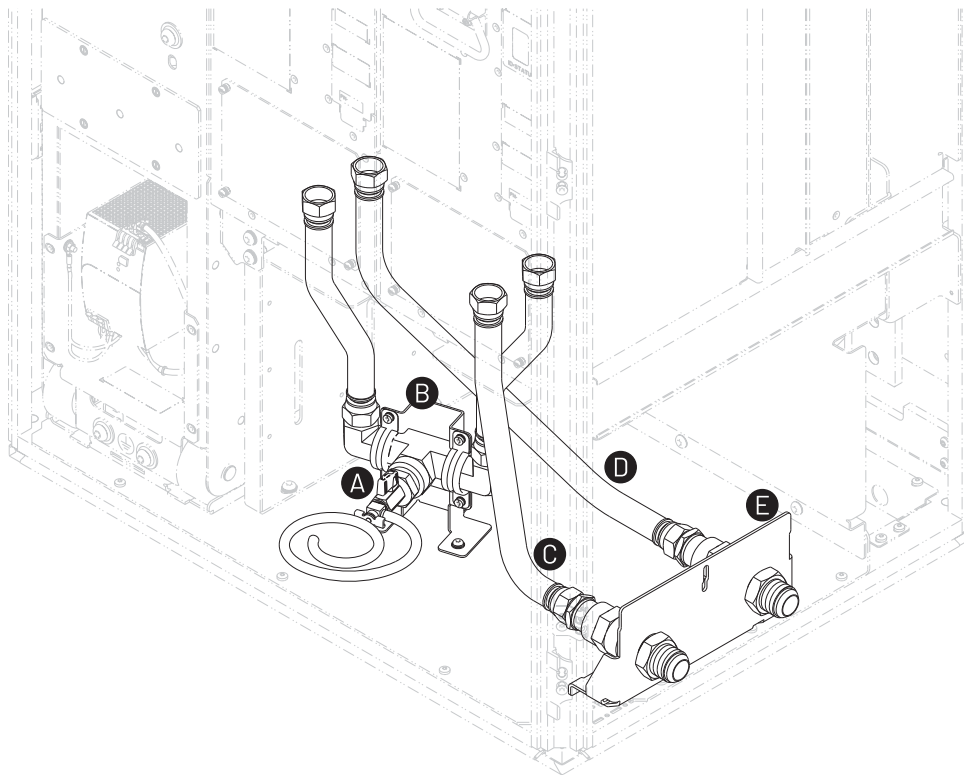
Coolant Temperature Range	Minimum Coolant Flow Rate	Maximum Coolant Flow Rate	Pressure Drop from Drive Inlet to Drive Outlet at Maximum Coolant Flow Rate	Coolant Type
0...40 °C (32...104 °F)	30.3 LPM (8 gpm)	45.5 LPM (12 gpm)	0.35 bar (5 psi)	WEG50 or WPG50

Inhibited ethylene glycol or propylene glycol must contain a corrosion inhibitor compatible with the cooling loop material. The estimated amount of coolant required for the equivalent frame 7L drive cooling loop is 7 L (5 gal).

Recommended Internal Cooling Loop components

This diagram identifies the Rockwell Automation recommended configuration and components for the internal cooling loop for an equivalent frame 7L drive.

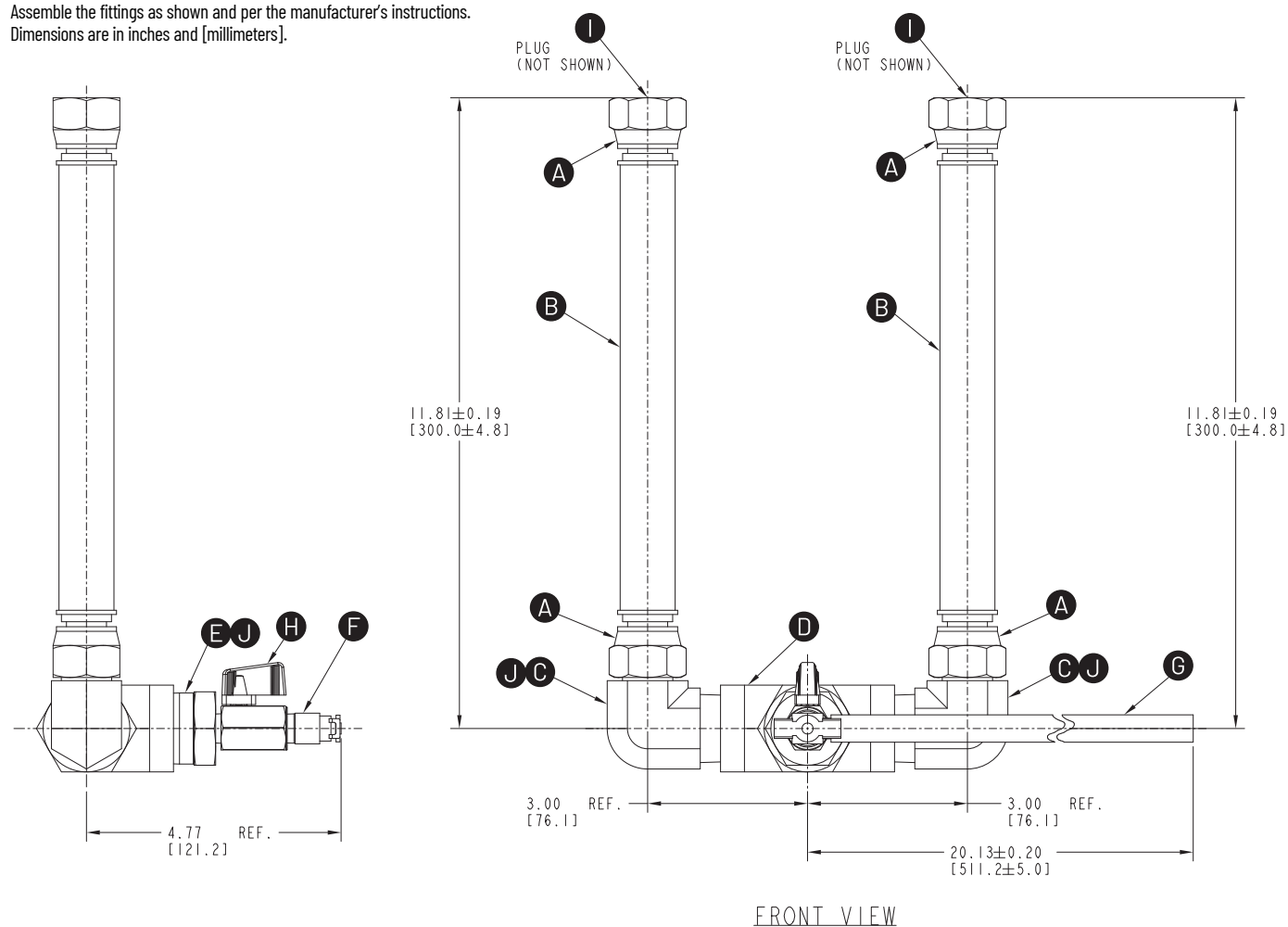
Recommended Internal Cooling Loop Configuration and Components



Item	Description	See Page
A	Internal Cooling Loop Connection Hoses and Shut-off Valve Assembly	262
B	Internal Cooling Loop Shut-off Valve Assembly Support Bracket	263
C	Internal Cooling Loop Inlet Hose	264
D	Internal Cooling Loop Outlet Hose	264
E	Internal Cooling Loop Hose Fittings Support Bracket	265

Internal Cooling Loop Connection Hoses and Shut-off Value Assembly

Assemble the fittings as shown and per the manufacturer's instructions.
Dimensions are in inches and [millimeters].

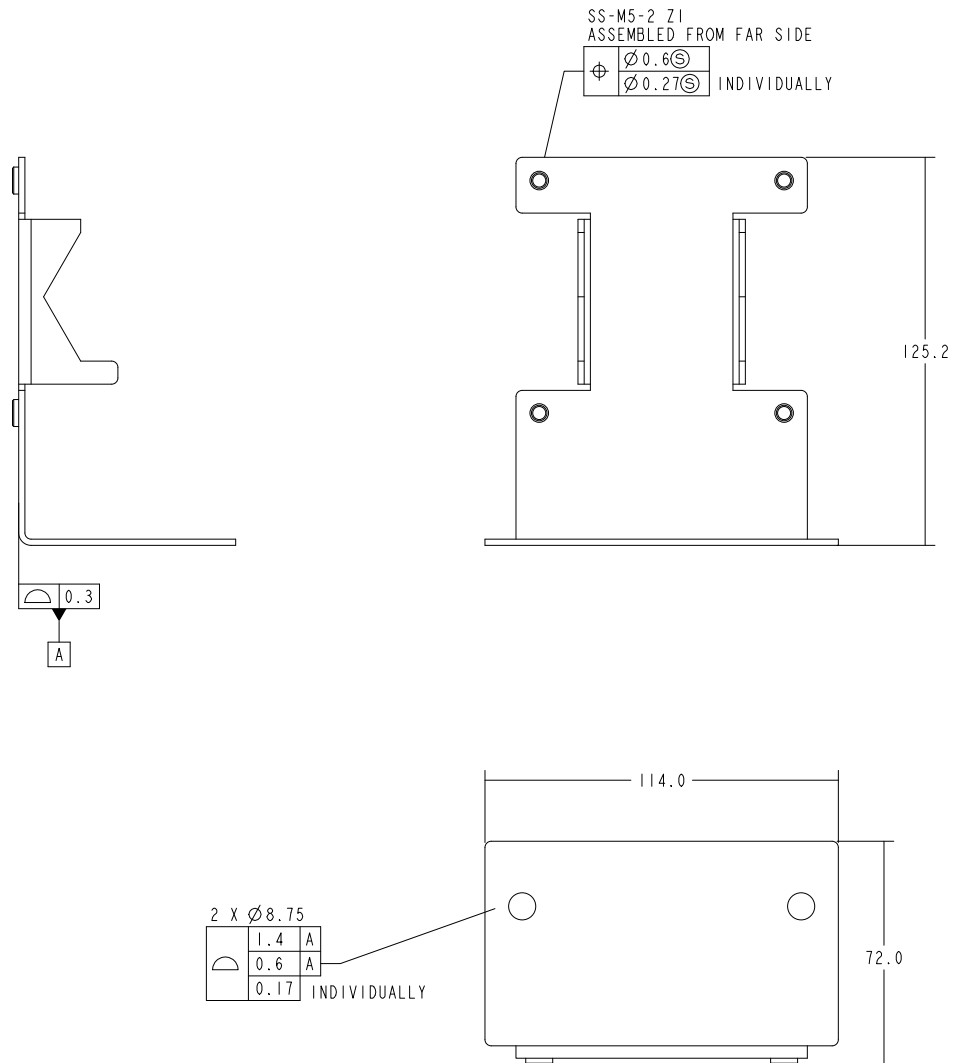


Item	Name	Description	Vendor	Part Number
A	Swivel Hose Fitting	Type: 3/4 inch 37 degree swivel, straight. Material: Brass. Thread: 1 1/16 - 12. Hose 3/4 inch.	Parker	30682-12-12B, or equivalent
B	General Purpose Hose	Size: 3/4 inch I.D., 1.03 inch O.D. Working Pressure: 250 psi. Construction: Nitrile-based synthetic rubber inner tube with fiber reinforcement and an oil and weather resistant cover. Color: Gray.	Parker	801-12-GRA, or equivalent
C	Male Bulkhead Fitting Elbow	Threads: 3/4 inch 37 degree flare male, 1 - 1 1/2 male NPTF. Material: Brass.	Parker	12-16 CTX-B, or equivalent
D	Female Pipe Tee	Type: NPTF (all three ends). Material: Brass. Thread: 1 - 1 1/2.	Parker	IMMO-B, or equivalent
E	Pipe Thread Reducer	Material: Brass. Thread: 1 - 1 1/2 male NPTF to 1/4 - 18 female NPTF.	Parker	1 x 1/4 PTR-B, or equivalent
F	Bib Drain Valve	Material: Brass. Thread: 1/4 male. Hose: 3/8.	Parker	DC607-4, or equivalent
G	Clear Flexible Tube	Material: PVC. Size: 10 mm I.D., 13 mm O.D.	RS Pro	914-55006, or equivalent
H	Male-Female Mini-ball Valve	Threads: 1/4 inch male and female. 0.83 Hex body.	Parker	MV608-4, or equivalent
I	Plug	Size: To fit 1 1/16 - 12 thread. Material: Low Density Polyethylene. Two required.	Carplugs	T-12-X, or equivalent
J	Thread Seal Tape	Thread: Seal tape. Material: PTFE (Teflon). Size: 1/2 inch wide. Federal Specification: T-27730A.	WH Harvey Mfg. Co.	017000, or equivalent

Internal Cooling Loop Shut-off Valve Assembly Support Bracket

Use this support bracket with the recommended Fliplock galvanized U-type clamps (quantity 2), vendor part number CUSZ-48M6B-EP and appropriately sized fasteners.

Assemble the fittings as shown and per the manufacturer's instructions.
Dimensions are in millimeters.

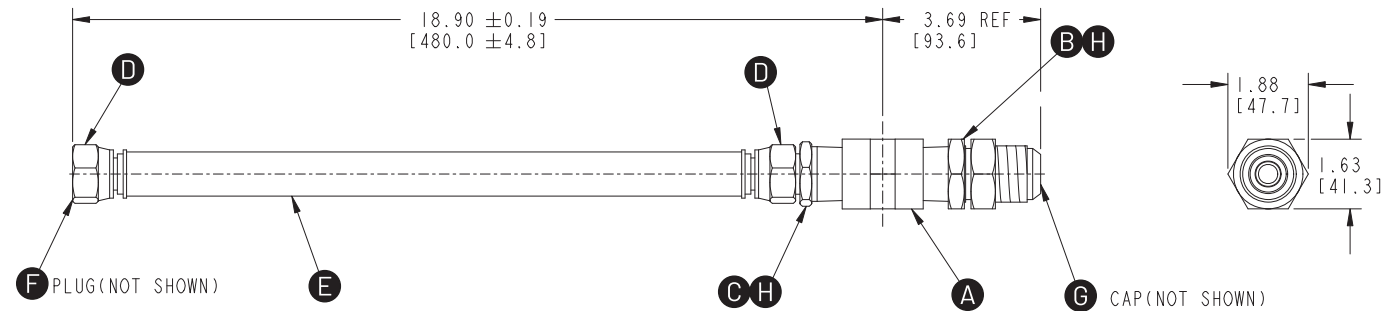


NOTES:

1. MATERIAL: 2 MM SHEET STEEL CS TYPE B, GALVANIZED G90
PER ASTM A653/A653M OR Z275 PER EN10346.
SURFACE TREATMENT: CHEMICALLY TREATED [C]. GRAIN PATTERN: REGULAR OR BETTER SPANGLE.
2. ALL INSIDE BEND RADII EQUAL TO MATERIAL THICKNESS MAX.
UNLESS OTHERWISE NOTED.
3. ALL BENDS ARE 90° AND BULGE ACCEPTABLE UNLESS OTHERWISE NOTED.

Internal Cooling Loop Inlet Hose

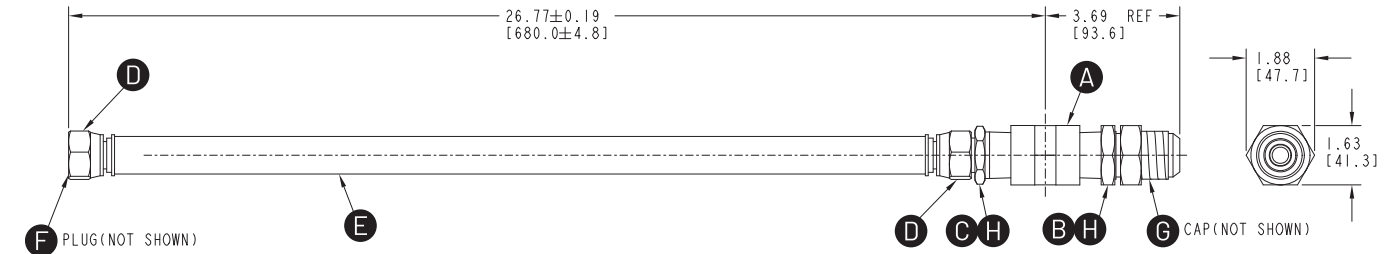
Assemble the fittings as shown and per the manufacturer’s instructions. Dimensions are in inches and [millimeters].



Item	Name	Description	Vendor	Part Number
A	Female Pipe Tee	Type: NPTF (all three ends). Material: Brass. Thread: 1 - 11 1/2.	Parker	GG-B, or equivalent
B	Male Bulkhead Fitting with Lock Nut	Threads: 1 inch 37 degree flare, 1 - 11 1/2 NPTF. Material: Brass.	Parker	16 WFTX-WLN-B, or equivalent
C	Male Bulkhead Fitting with Lock Nut	Threads: 3/4 inch 37 degree flare, 1 - 11 1/2 male NPTF. Material: Brass.	Parker	12-16 FTX-B, or equivalent
D	Swivel Hose Fitting	Type: 3/4 inch 37 degree swivel, straight. Material: Brass. Thread: 1 1/16 - 12. Hose: 3/4. Two required.	Parker	30682-12-12B, or equivalent
E	General Purpose Hose	Size: 3/4 inch I.D., 1.03 inch O.D. Working Pressure: 250 psi. Nitrile-based synthetic rubber inner tube with fiber reinforcement and an oil and weather resistant cover. Color: Gray.	Parker	801-12-GRA, or equivalent
F	Plug	Size: To fit 1 1/16 - 12 thread. Material: Low Density Polyethylene.	Carplugs	T-12-X, or equivalent
G	Cap	Size: To fit 1 5/16 - 12 thread and fitting size - 16. Material: Low Density Polyethylene.	Carplugs	T-15-X, or equivalent
H	Thread Seal Tape	Thread: Seal tape. Material: PTFE (Teflon). Size: 1/2 inch wide. Federal Specification: T-27730A.	WH Harvey Mfg. Co.	017000, or equivalent

Internal Cooling Loop Outlet Hose

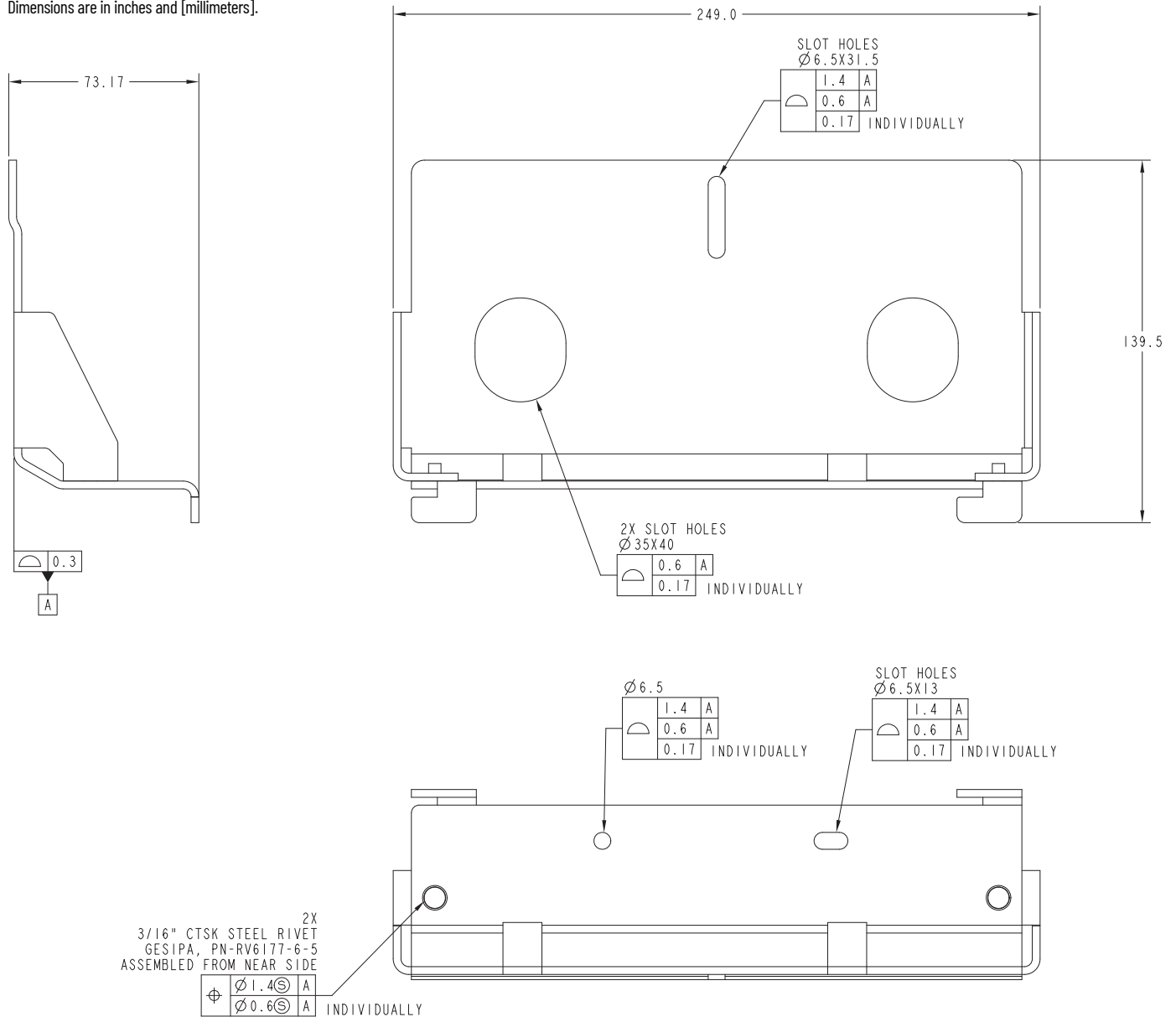
Assemble the fittings as shown and per the manufacturer’s instructions. Dimensions are in inches and [millimeters].



Item	Name	Description	Vendor	Part Number
A	Female Pipe Tee	Type: NPTF (all three ends). Material: Brass. Thread: 1 - 11 1/2.	Parker	GG-B, or equivalent
B	Male Bulkhead Fitting with Lock Nut	Threads: 1 inch 37 degree flare, 1 - 11 1/2 NPTF. Material: Brass.	Parker	16 WFTX-WLN-B, or equivalent
C	Male Bulkhead Fitting with Lock Nut	Threads: 3/4 inch 37 degree flare, 1 - 11 1/2 male NPTF. Material: Brass.	Parker	12-16 FTX-B, or equivalent
D	Swivel Hose Fitting	Type: 3/4 inch 37 degree swivel, straight. Material: Brass. Thread: 1 1/16 - 12. Hose: 3/4. Two required.	Parker	30682-12-12B, or equivalent
E	General Purpose Hose	Size: 3/4 inch I.D., 1.03 inch O.D. Working Pressure: 250 psi. Nitrile-based synthetic rubber inner tube with fiber reinforcement and an oil and weather resistant cover. Color: Gray.	Parker	801-12-GRA, or equivalent
F	Plug	Size: To fit 1 1/16 - 12 thread. Material: Low Density Polyethylene. Two required.	Carplugs	T-12-X, or equivalent
G	Cap	Size: To fit 1 5/16 - 12 thread and fitting size - 16. Material: Low Density Polyethylene.	Carplugs	T-15-X, or equivalent
H	Thread Seal Tape	Thread: Seal tape. Material: PTFE (Teflon). Size: 1/2 inch wide. Federal Specification: T-27730A.	WH Harvey Mfg. Co.	017000, or equivalent

Internal Cooling Loop Hose Fittings Support Bracket

Assemble the fittings as shown and per the manufacturer's instructions.
Dimensions are in inches and [millimeters].

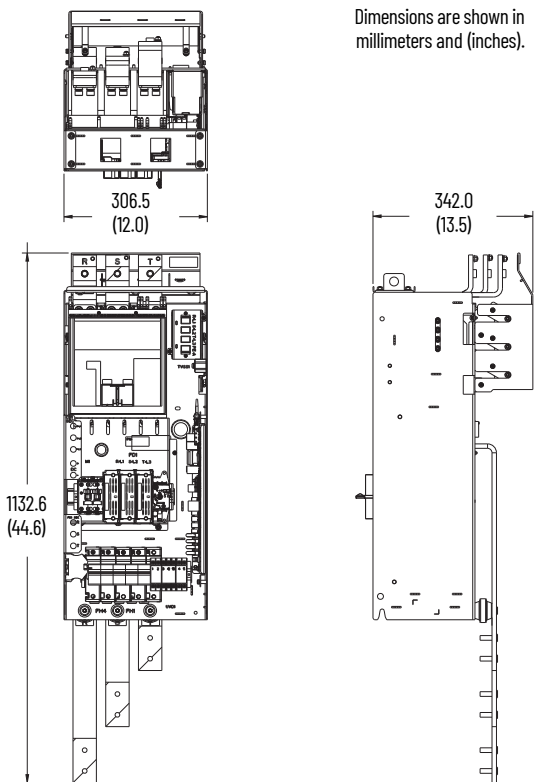


NOTES:

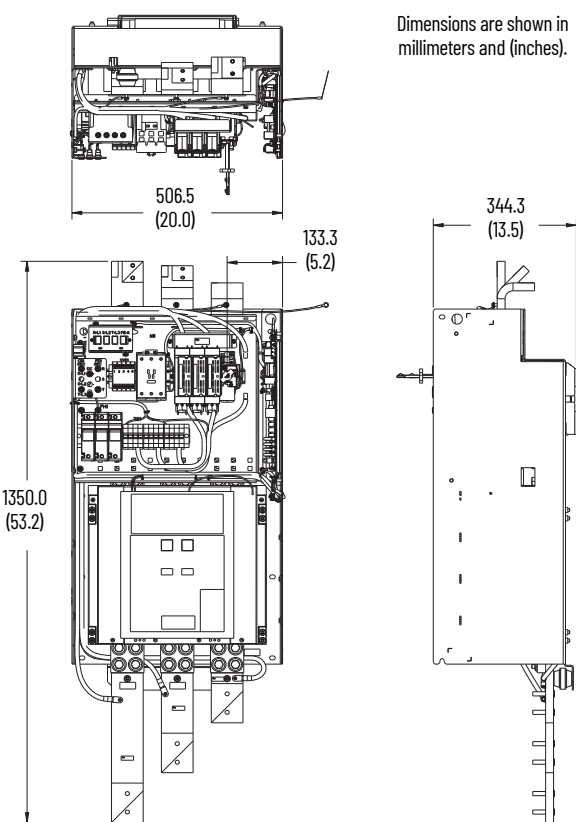
1. MATERIAL: 3 MM SHEET STEEL CS TYPE B, GALVANIZED G90
PER ASTM A653/A653M OR Z275 PER EN10346.
SURFACE TREATMENT: CHEMICALLY TREATED [C]. GRAIN PATTERN: REGULAR OR BETTER SPANGLE
2. ALL INSIDE BEND RADII EQUAL TO MATERIAL THICKNESS MAX. UNLESS OTHERWISE NOTED.
3. ALL BENDS ARE 90° AND BULGE ACCEPTABLE UNLESS OTHERWISE NOTED.

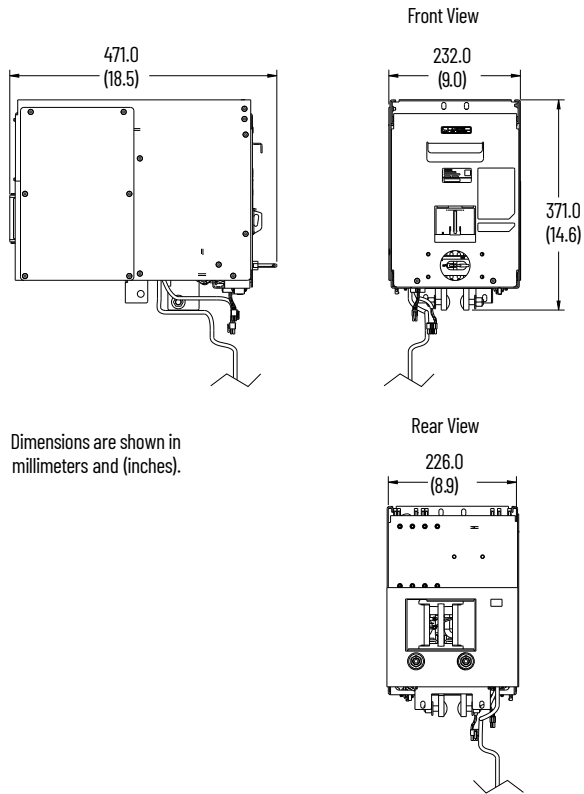
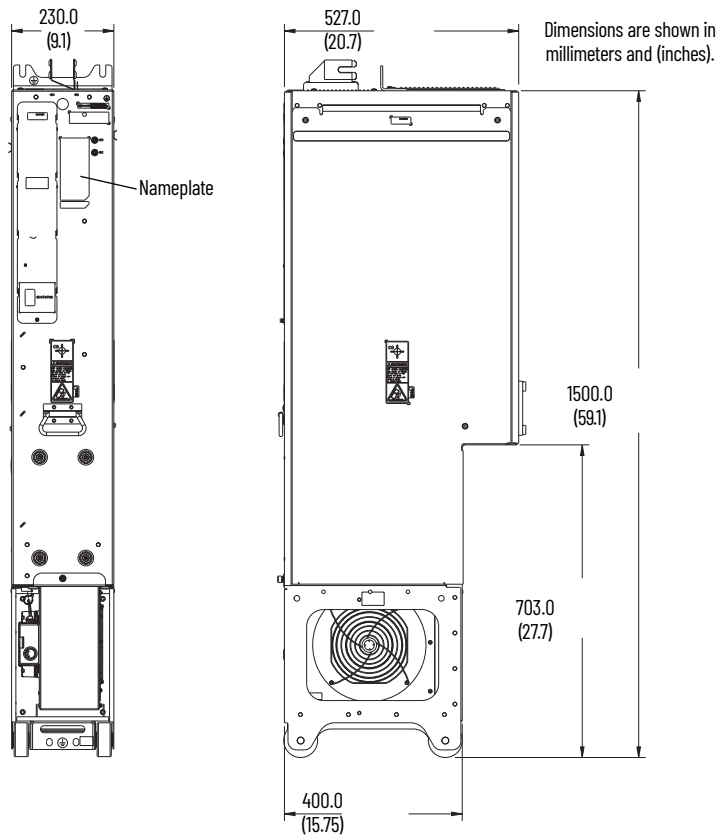
Approximate Dimensions

Frame 8 AC Precharge Module (Cat. No. 20-750-MACP-xx-F8M)

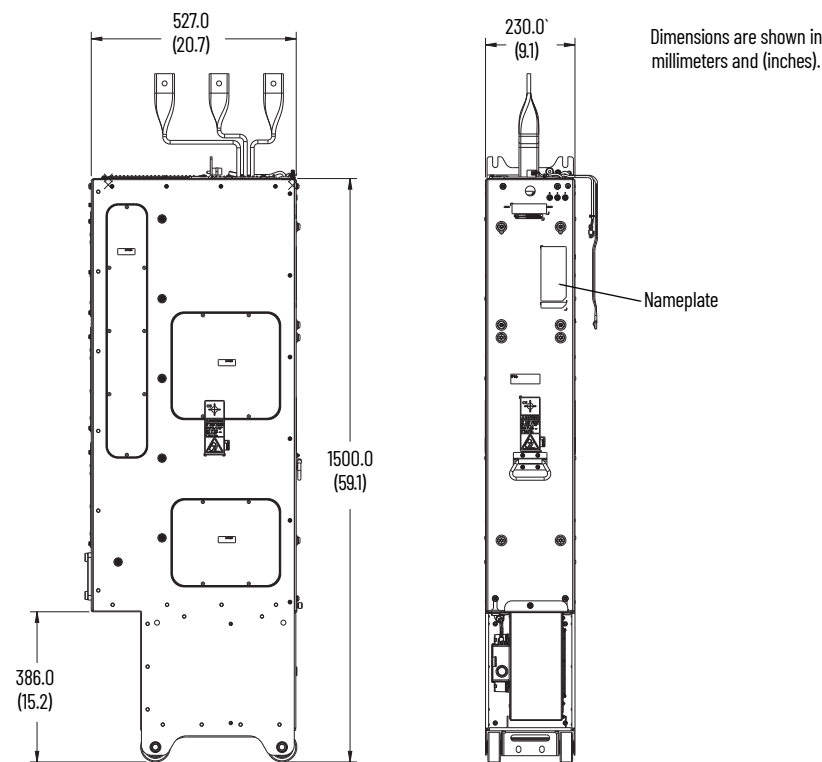


Frame 9 AC Precharge Module (Cat. No. 20-750-MACP-xx-F9M)

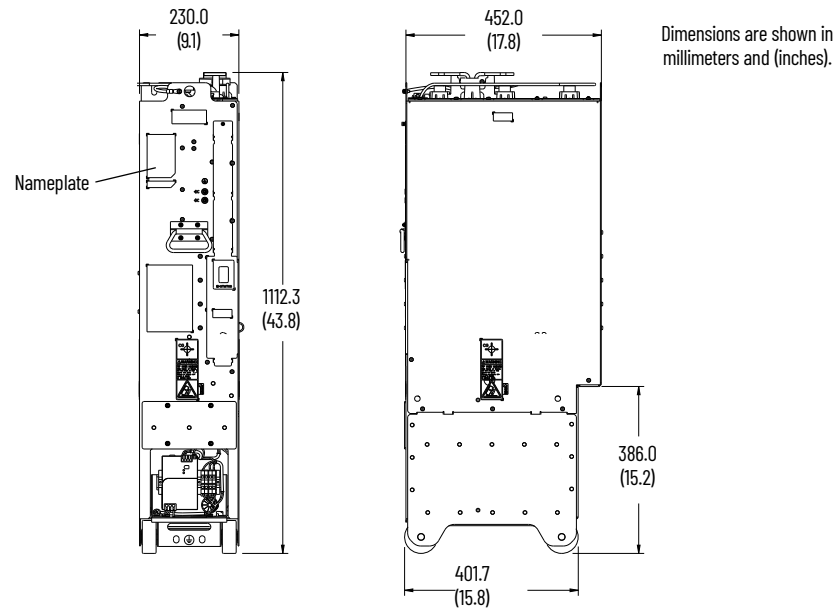


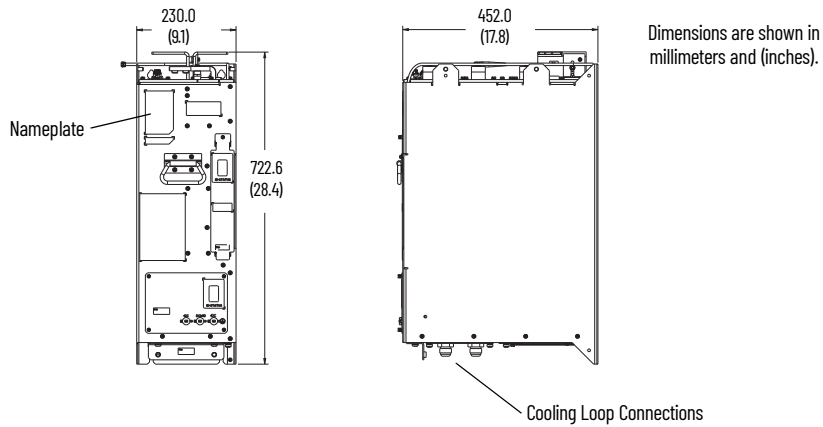
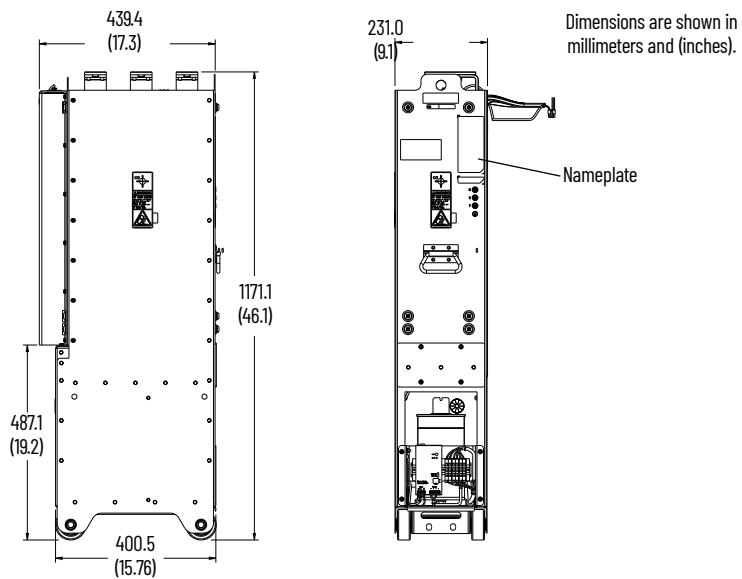
DC Precharge Module (Cat. No. 20-750-MDCPn-xx-F8M)**Frame 8...15 Power Module (Cat. No. 20-750-MI1-xnnnxnnn, 20-750-MI2-xnnnxnnn, 20-750-MI3-xnnnxnnn)**

Frame 8...15 LCL Filter Module (Cat. No. 20-750-ML1-xnnnxnnn)

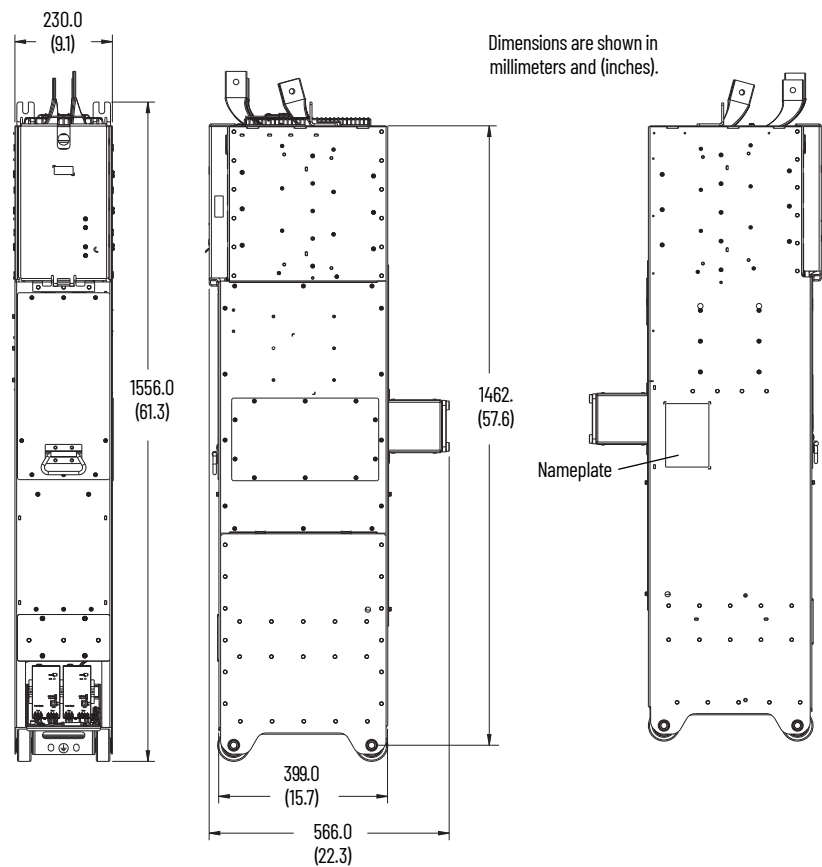


Frame 7 Power Module (Cat. No. 20-750-MI4-xnnnxnnn)

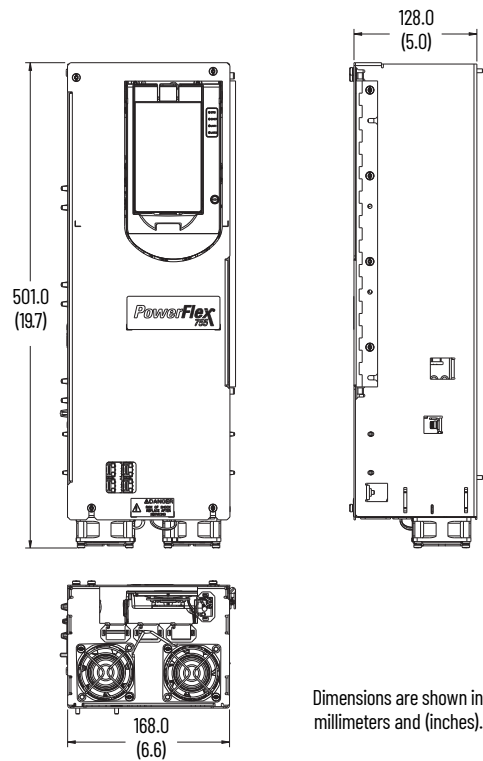


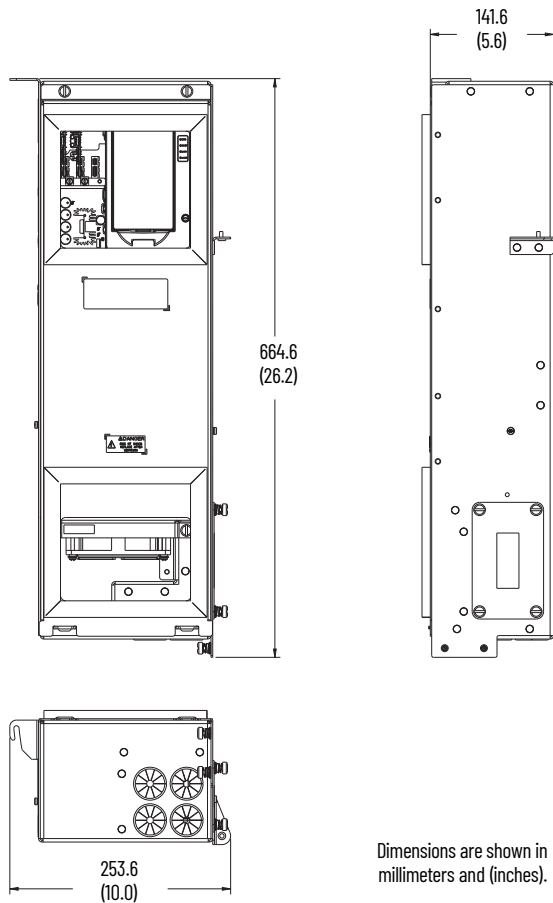
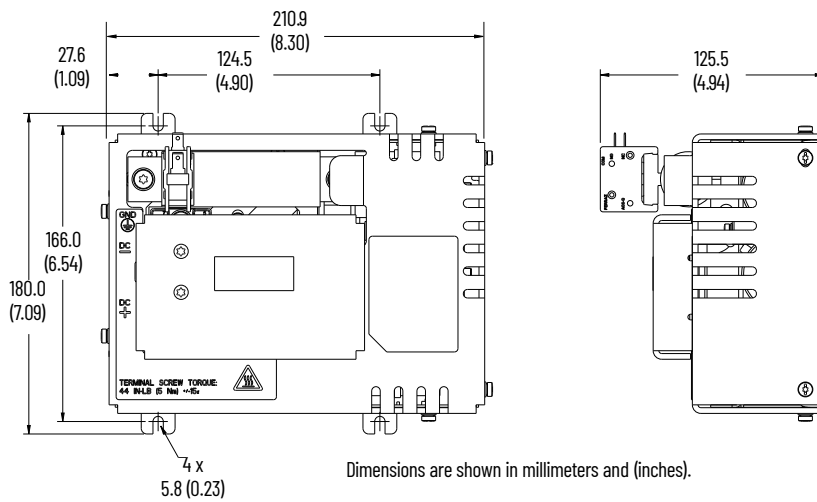
Frame 7L Power Module (Cat. No. 20-750-MI4-C650-D650)**Frame 7 and 7L LCL Filter Module (Cat. No. 20-750-ML4-xnnnxnnn)**

Non-Regenerative Supply Module (Cat. No. 20-750-MNn-xnnnxnnn)

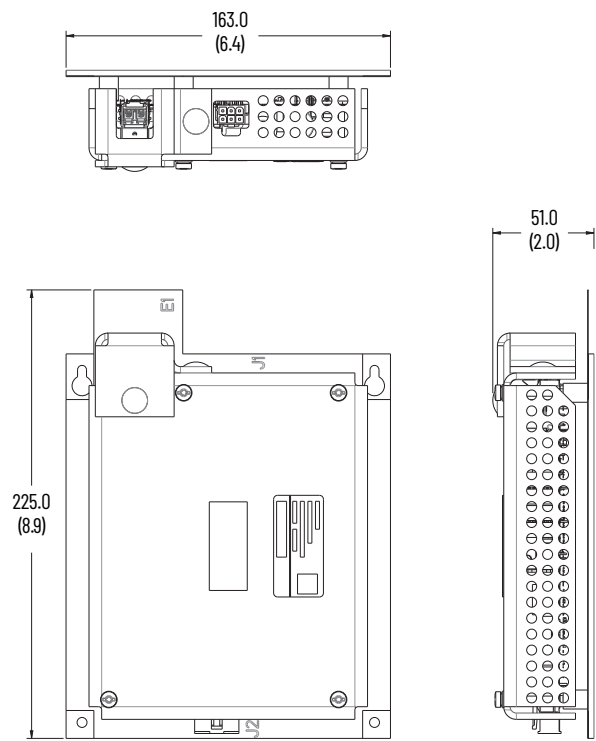


Control Pod (Cat. No. 20-750-MCPODn-F8M)



Control Pod (Cat. No. 20-750-MCP0Dn-F7M)**DC Bus Conditioner Module (Cat. No. 20-750-MDCBUS-COND and 20-750-MDCBUS1-COND)**

Torque Accuracy Module (Cat. No. 20-750-MTAM1-xx)



Dimensions are shown in millimeters and (inches).

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
Drives in Common Bus Configurations with PowerFlex 755TM Bus Supplies Application Techniques, publication 750-AT005	Provides basic information to properly wire and ground the following products in common bus applications: - PowerFlex 755TM drive system for common bus solutions - PowerFlex 750-Series AC and DC input drives - Kinetix® 5700 servo drives
PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication 750-IN100	Provides the basic steps to install PowerFlex 755TL drives, PowerFlex 755TR drives, and PowerFlex 755TM bus supplies.
PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101	Provides instructions to install IP00 Open Type kits in user-supplied enclosures.
PowerFlex 755TM AC Precharge Modules Unpacking and Lifting Instructions, publication 750-IN102	These publications provide detailed information on: - Component weights - Precautions and recommendations - Hardware attachment points - Lifting the component out of the packaging
PowerFlex 755TM DC Precharge Modules Unpacking and Lifting Instructions, publication 750-IN103	
PowerFlex 755TM Power and Filter Modules Unpacking and Lifting Instructions, publication 750-IN104	
PowerFlex 750-Series Service Cart Instructions, publication 750-IN105	Provides detailed set-up and operating instructions for the module service cart and lift extension option.
PowerFlex 755TM Power and Filter Module Storage Hardware Instructions, publication 750-IN106	Provides detailed installation and usage instructions for this hardware accessory.
PowerFlex 755TM IP00 EMC C2 Filter Unpacking and Lifting Instructions, publication 750-IN109	Provides unpacking and lifting instructions for the IP00 / Open Type EMC C2 filter.
PowerFlex TotalFORCE Firmware Documentation Set: - PowerFlex Drives with TotalFORCE Control Programming Manual (firmware revision 6.xxx and earlier), publication 750-PM100 - PowerFlex Drives with TotalFORCE Control Conditions Reference Data, publication 750-RD100	Provides detailed information for firmware revisions 6.xxx and earlier on: - I/O, control, and feedback options - Parameters and programming - Faults, alarms, and troubleshooting
PowerFlex TotalFORCE Firmware Documentation Set: - PowerFlex Drives with TotalFORCE Control Programming Manual (firmware revision 10.xxx and later), publication 750-PM101 - PowerFlex Drives with TotalFORCE Control Parameters Reference Data, publication 750-RD101 - PowerFlex Drives with TotalFORCE Control Conditions Reference Data, publication 750-RD102	Provides detailed information for firmware revisions 10.xxx and later on: - I/O, control, and feedback options - Parameters and programming - Faults, alarms, and troubleshooting
PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication 750-TD100	Provides detailed information on: - Drive and bus supply specifications - Option specifications - Fuse and circuit breaker ratings
PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication 750-TG100	Provides detailed information on: - Preventive maintenance - Component testing - Hardware replacement procedures
PowerFlex® 755TM Non-Regenerative Supply User Manual, publication 750-UM100	Provides detailed information on: - Receiving, handling, and storage - Installation steps - Setup and commissioning - Basic troubleshooting and maintenance
PowerFlex 750-Series Safe Speed Monitor Option Module Safety Reference Manual, publication 750-RM001	These publications provide detailed information on installation, set-up, and operation of the 750-Series safety option modules.
PowerFlex 750-Series Safe Torque Off Option Module User Manual, publication 750-UM002	
PowerFlex 750-Series ATEX Option Module User Manual, publication 750-UM003	
PowerFlex 755 Integrated Safety - Safe Torque Off Option Module User Manual, publication 750-UM004	
PowerFlex 755/755T Integrated Safety Functions Option Module User Manual, publication 750-UM005	
Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-IN001	Provides basic information to properly wire and ground PWM AC drives.
Industry Installation Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-AT003	Provides basic information for different enclosure systems and environmental/location considerations (to help protect against environmental contaminants), and power and grounding considerations needed to properly install a Pulse Width Modulated (PWM) AC drive.
Industrial Components Preventive Maintenance, Enclosures, and Contact Ratings Specifications, publication IC-TD002	Provides a quick reference tool for Allen-Bradley industrial automation controls and assemblies.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication SGI-L1	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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