



PowerFlex 7000 Medium Voltage AC Drives Technical Data

Bulletin Numbers 7000A, 7000, 7000L

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Overview

The PowerFlex® 7000 medium voltage product line is designed to meet a broad variety of heavy industry needs and configurations. High performance, safety, and robust communication features help improve asset utilization and lower safety risk for your critical applications from offshore oil platforms, natural gas or oil pipelines, mining sites, water/wastewater facilities, to marine applications and beyond.

PowerFlex 7000 medium voltage AC drives offer drive configurations and control options such as active front end (AFE) with Direct-to-Drive™ technology and high performance torque control to help meet application demands. With the additional Safe Torque Off control option and the ArcShield™ arc-resistant enclosure option, the PowerFlex 7000 drive can provide a complete solution that delivers higher performance and enhanced safety for your critical assets.

PowerFlex 7000 Air-cooled Drives

For motors from 150...6000 kW (200...8000 Hp) at 2.4...6.6 kV, this drive offers different frame sizes and heatsink or heat pipe configurations to accommodate various power ranges.

PowerFlex 7000 Extended Power Configurations

Available up to 25,400 kW (34,000 Hp) at 2.4...6.6 kV, these high power air-cooled and liquid-cooled drive modules are effective solutions for hot back-up and redundancy, Load Commutated Inverter (LCI) retrofits, and power upgrades.

PowerFlex 7000L Liquid-Cooled Drives

For motors from 2240...6340 kW (3000...8500 Hp) at 4.16...6.6 kV, this option uses a closed-loop liquid-cooling system with liquid-to-air or liquid-to-liquid heat exchanger options and provides redundant pumps as standard, for optimal reliability.

PowerFlex 7000L Marine Drives

With power ratings from 600 kW to 24 MW (800...32,000 Hp), this liquid-cooled marine drive uses Direct-to-Drive technology to conserve space and weight and is built to withstand the rigors at sea.

Catalog Number Explanation

Use the catalog numbering table chart below to understand the configuration of your medium voltage drive. Examples that are given in this section are not intended to be used for product selection. Not all combinations produce a valid catalog number. For questions regarding product availability, contact your Allen-Bradley distributor.

7000 **-** **A** **40** **D** **A** **RPDTD** **1...etc.**
 a b c d e f g

a	
Bulletin Number	
Code	Description
7000A	A Frame (Air-cooled)
7000	B Frame (Air-cooled)
7000L	C Frame (Liquid-cooled)

c	
Drive Current Rating	
Code	Description
40	40 A
46	46 A
53	53 A
61	61 A
70	70 A
81	81 A
93	93 A
105	105 A
120	120 A
140	140 A
160	160 A
185	185 A
215	215 A
250	250 A
285	285 A
325	325 A
375	375 A
430	430 A
495	495 A
575	575 A
625	625 A
657	657 A
720	720 A

b	
Service Duty/Altitude Code	
Code	Description
A	Normal Duty, 0...1000 m Altitude Maximum 40 °C (104 °F) Ambient
B	Normal Duty, 1001...5000 m Altitude Reduced Ambient Temperature (from 40 °C [104 °F] offering) 1001...2000 m = 37.5 °C (99.5 °F) 2001...3000 m = 35 °C (95 °F) 3001...4000 m = 32.5 °C (90.5 °F) 4001...5000 m = 30 °C (86 °F)
C	Heavy Duty, 0...1000 m Altitude Maximum 40 °C (104 °F) Ambient Temperature
D	Heavy Duty, 1001...5000 m Altitude. Reduced Ambient Temperature (from 40 °C [104 °F] offering) – same as “B” code above
E	Normal Duty, 0...1000 m Altitude. Maximum 35 °C (95 °F) Ambient
F	Normal Duty, 1001...5000 m Altitude Reduced Ambient Temperature (from 35 °C [95 °F] offering) 1001...2000 m = 32.5 °C (90.5 °F) 2001...3000 m = 30 °C (86 °F) 3001...4000 m = 27.5 °C (81.5 °F) 4001...5000 m = 25 °C (77 °F)
G	Heavy Duty, 0...1000 m Altitude. Maximum 35 °C (95 °F) Ambient Temperature
J	Normal Duty, 0...1000 m Altitude. Maximum 50 °C (122 °F) Ambient Temperature
L	Heavy Duty, 0...1000 m Altitude. Maximum 50 °C (122 °F) Ambient Temperature
N	Normal Duty, 0...1000 m Altitude. Maximum 20 °C (68 °F) Ambient Temperature
Z	Custom Configuration (contact your local Rockwell Automation sales office or Allen-Bradley distributor)

d	
Enclosure Type	
Code	Description
D	Type 1/IP21 (with door gaskets)
K	IP42 (with door gaskets)

7000 - A 40 D A RPDTD 1...etc.
a b c d e f g

e					
Supply Voltage/Control Voltage/Control Power Transformer (C.P.T.) Selection					
Frame Size	Voltage		Frequency (Hz)	Code	
	Nominal Line	Control		With a C.P.T. ⁽¹⁾	Without a C.P.T. ⁽²⁾
'A' Frame	2400	120	60	A	AD
		120...240		AA	—
	3300	110	50	CY	CDY
		220		CP	CDP
	4160	110	50	EY	EDY
		220		EP	EDP
		120	60	E	ED
		120...240		EA	—
	6600	110	50	JY	JDY
		220		JP	JDP
		110...220		JAY	—
		120	60	J	JD
		240		JA	—
'B' and 'C' Frames	2400	208	60	AHD	
		480		ABD	
		600		ACD	
	3300	230	50	CPD	
		380		CND	
		400		CKD	
	4160	230	50	EPD	
		380		END	
		400		EKD	
		208	60	EHD	
		480		EBD	
		600		ECD	
	6600	230	50	JPD	
		380		JND	
		400		JKD	
		208	60	JHD	
		480		JBD	
		600		JCD	

f	
Rectifier Configuration/Line Impedance Type	
Code	Description
RPDTD	AFE Rectifier with Integral Line Reactor and Direct-to-Drive DC Link
RPTX	AFE Rectifier with provision for connection to separate Isolation Transformer (standard DC Link)
RPTXI	AFE Rectifier with integral Isolation Transformer (standard DC Link) ⁽³⁾
R18TX	18 Pulse Rectifier with provision for connection to separate Isolation Transformer (standard DC Link) ⁽⁴⁾

g	
Options	
Code	Description
See PowerFlex 7000 Medium Voltage Drive Options on page 51.	

(1) You must select a control power transformer modification (6, 6B...etc.) to size the transformer.

(2) Control circuit power is supplied from separate/external source.

(3) RPTXI configuration is only available for 'A' frame configurations.

(4) R18TX configuration is only available for 'B' and 'C' frame configurations.

Technical Specifications

In the event of discrepancies between information in generic manual specifications and your specific design or electrical drawings, take the DD or EE ratings as correct values.

Description			Bulletin 7000A, 'A' Frame	Bulletin 7000, 'B' Frame	Bulletin 7000L, 'C' Frame
			Air-cooled		Liquid-cooled
Motor Type			Induction or Synchronous		
Input Voltage Rating			2400V, 3300V, 4160V, 6600V		
Input Voltage Tolerance			± 10% of Nominal		
Voltage Sag ⁽¹⁾			-30%		
Control Power Loss Ride-through			5 Cycles (Std) > 5 Cycles (Optional UPS)		
Input Protection ⁽²⁾			Surge Arrestors (AFE/Direct-to-Drive)	Surge Arrestors (AFE/Direct-to-Drive) Metal Oxide Varistor (MOV) (18-pulse)	
Input Frequency			50/60 Hz, ±5%		
Power Bus Input Short-circuit Current Withstand (2400...6600V ⁽³⁾)			25 kA RMS SYM, 5 Cycle		
Basic Impulse Level ⁽⁴⁾			45 kV (0...1000 m)		
Power Bus Design			Copper - Tin plated		
Ground Bus			Copper - Tin plated 6 x 51 mm (1/4 x 2 in.)		
Customer Control Wireway			Separate and Isolated		
Input Power Circuit Protection ⁽⁵⁾			Vacuum Contactor with Fused Isolating Switch or Circuit Breaker		
Output Voltage			0...2400V 0...3300V 0...4160V 0...6000V 0...6300V 0...6600V		
Inverter Design			PWM		
Inverter Switch			SGCT		
Inverter Switch Failure-Mode			Non-rupture, Non-arc		
Inverter Switch Failure-Rate (FIT)			100 per 1 Billion Hours Operation		
Inverter Switch Cooling			Double Sided, Low Thermal Stress		
Inverter Switching Frequency			420...440 Hz		
Number of Inverter SGCTs Per Phase	2400V		2		
	3300V		4		
	4160V		4		
	4160V		6 ⁽⁶⁾		
	6600V		6		
Inverter Total Peak Inverse Voltage (PIV) Rating	2400V	PIV per device: 6600V	6500V		
	3300V		13,000V		
	4160V		13,000V		
	6600V		19,5000V		
Rectifier Designs			Direct-to-Drive (transformerless AFE rectifier) AFE with separate isolated transformer AFE with integrated transformer	Direct-to-Drive (transformerless AFE rectifier) AFE with separate isolated transformer 18-pulse with separate isolation transformer	
Rectifier Switch			SGCT (AFE Rectifier)	SCR (18-pulse) SGCT (AFE Rectifier)	
Rectifier Switch Failure-Mode			Non-rupture, Non-arc		
Rectifier Switch Failure-Rate (FIT)			50 (SGCT) per 1 Billion Hours Operation	100 (SCR) per 1 Billion Hours Operation 50 (SGCT) per 1 Billion Hours Operation	
Rectifier Switch Cooling			Double Sided, Low Thermal Stress		

Description			Bulletin 7000A, 'A' Frame	Bulletin 7000, 'B' Frame	Bulletin 7000L, 'C' Frame
			Air-cooled		Liquid-cooled
Number of Rectifier Devices per phase	2400V	AFE	2	2	—
	3300V		4	4	—
	4160V		4	4	—
	6600V		6	6	—
	2400V	18 Pulse	—	6	—
	3300V		—	6	—
	4160V		—	6	6
	6600V		—	6	6
Output Current THD (1 st ...49 th)			< 5% (full load, full speed)		
Output Waveform to Motor			Sinusoidal Current/Voltage		
Medium Voltage Isolation			Fiber-optic		
Modulation techniques			Selective Harmonic Elimination (SHE) Synchronous Trapezoidal PWM Asynchronous or Synchronous Space Vector Modulation (SVM)		
Control Method			Digital Sensorless Direct Vector Full Vector Control with Encoder Feedback (Optional)		
Tuning Method			Autotuning with Setup Wizard		
Speed Regulator Bandwidth			1...10 Rad/s with standard control 1...20 Rad/s with HPTC (optional)		
Torque Regulator Bandwidth			15...50 Rad/s with standard control 80...100 Rad/s with HPTC (optional)		
Torque Accuracy with HPTC (optional)			±5%		
Speed Regulation			0.1% without Tachometer Feedback 0.01...0.02% with Tachometer Feedback		
Acceleration/Deceleration Range			Independent Accel/Decel – 4 x 30 s		
Acceleration/Deceleration Ramp Rates			4 x Independent Accel/Decel		
S Ramp Rate			Independent Accel/Decel – 2 x 999 s		
Critical Speed Avoidance			3 x Independent with Adjustable bandwidth		
Stall Protection			Adjustable time delay		
Load Loss Detection			Adjustable level, delay, speed set points		
Control Mode			Speed or Torque		
Current Limit			Adjustable in Motoring and Regenerative		
Output Frequency Range			0.2...75 Hz (Standard) 75...90 Hz (Optional - need specific Motor Filter Capacitor [MFC])		
Service Duty Rating (All Frames)	Normal Duty	110% Overload for 1 min. every 10 min. (Variable Torque Load)			
	Heavy Duty	150% Overload for 1 min. every 10 min. (Constant Torque Load)			
Typical VFD Efficiency ⁽⁷⁾			> 97.5% (AFE)	> 97.5% (AFE) > 98% (18 Pulse)	
Input Power Factor			AFE Rectifier: 0.95 minimum, 10...100% Load		
IEEE 519 Harmonic Guidelines ⁽⁸⁾			IEEE 519 - 2014 Compliant		
VFD Noise Level			< 85 dB (A) per OSHA Standard 3074		
Regenerative Braking Capability			Inherent – No Additional Hardware or Software Required		
Flying Start Capability			Yes – Able to Start into and Control a Spinning Load in Forward or Reverse Direction		
Operator Interface			10 in. Color Touch Screen – Cat# 2711P-T10C4A9 (VAC) Built-in PDF viewer Redesigned PanelView™ Plus 6 Logic Module with 512 Mb of memory		
Languages			English, Chinese, Czech, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Turkish		
Control Power			220/240V or 110/120V, Single phase - 50/60 Hz (20 A)		
External I/O			16 Digital Inputs, 16 Digital Outputs		
External Input Ratings			50...60 Hz AC or DC 120...240 V – 1 mA		
External Output Ratings			50...60 Hz AC or DC 30...260V – 1 A		
Analog Inputs			Three Isolated, 4...20 mA or 0...10V (250 Ω)		

Description	Bulletin 7000A, 'A' Frame	Bulletin 7000, 'B' Frame	Bulletin 7000L, 'C' Frame
	Air-cooled		Liquid-cooled
Analog Resolution	Analog input 12 Bits (4...20 mA) Internal parameter 32-Bit resolution Serial Communication 16-bit resolution (0.1 Hz) (Digital Speed Reference)		
Analog Outputs	One Isolated, Eight Non-isolated, 4...20 mA or 0...10V (600 Ω)		
Communication Interface	EtherNet IP™/DPI™		
Scan Time	Internal DPI - 2 ms...4 ms		
Communications Protocols (Optional)	• DeviceNet® • ControlNet® • EtherNet/IP • Lon Works • Dual-port EtherNet/IP • Can Open • USB • PROFIBUS • RS-485 HVAC • Modbus • RS-485 DF1 • Interbus • RS-232 DF1		
Enclosure	IP21/NEMA Type 1 (standard) IP42 (optional)		
Lifting Device	Standard/Removable		
Mounting Arrangement	Mounting Sill Channels		
Structure Finish	Epoxy Powder - Paint Exterior Sandtex Light Grey (RAL 7038) - Black (RAL 8022) Internal - Control Sub Plates - High Gloss White (RAL 9003)		
Interlocking	Key provision for customer input Disconnecting Device		
Corrosion Protection	Unpainted Parts (Zinc Plated/Clear Chromate)		
Ambient Temperature	0...40 °C (32...104 °F) 0...50 °C (32...122 °F) - optional		
Fiber-optic Interface	Rectifier - Inverter - Cabinet (Warning/Trip)		
Door Filter	Painted Diffuser with Matted Filter or Washable Foam Media		Painted Diffuser with Matted Filter Media
Door Filter Blockage	Airflow Restriction Trip/Warning		
Storage and Transportation Temperature Range	-40...+70 °C (-40...+158 °F)		
Relative Humidity	Max. 95%, Noncondensing		
Altitude (Standard)	0...1000 m (0...3300 ft)		
Altitude (Optional)	<4160V: 1001...5000 m (3301...16,400 ft) >6000V: 1001...2000 m (3301...6600 ft)		1001...5000 m (3300...16,400 ft)
Seismic (UBC Rating) ⁽⁹⁾	1, 2, 3, 4		
Standards	NEMA, IEC, CSA, UL, ANSI, IEEE		

(1) Voltage Sag tolerance is reduced to -25% when control power is supplied from medium voltage by way of CPT.

(2) MOVs are used for 18-pulse. Surge arrestors are used for AFE/Direct-to-Drive configurations.

(3) Short-circuit fault rating that is based on input protection device (contactor or circuit breaker).

(4) BIL rating that is based on altitudes < 1000 m (3300 ft). See factory for derating on altitudes > 1000 m (3281 ft).

(5) Optional.

(6) N+1 selection - optional, not standard.

(7) Contact your local sales office or distributor for guaranteed efficiency of specific drive rating.

(8) Under certain conditions, power system analysis is required.

(9) With seismic option.

Standards and Certifications

The PowerFlex 7000 drive meets most common standards from these organizations:

- National Electrical Code (NEC)
- International Electrotechnical Commission (IEC)
- National Electrical Manufacturers Association (NEMA)
- Underwriters Laboratories (UL)
- Canadian Standards Association (CSA).

The Safe Torque Off option is certified by TÜV for use in safety applications up to and including Safety Integrity Level 3 (SIL3) and Category 3, Performance Level e (Cat 3, PL e). The Safe Torque Off option satisfies applicable requirements in the following standards related to functional and machinery safety.

- IEC 61508-1 to 7: 2010 - Functional safety of electrical/electronic/programmable electronic safety related systems
- IEC 61800-5-2:2016 - Adjustable speed electrical power systems – Part 5-2: Safety requirements – Functional
- IEC 61800-3:2017 - Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods
- IEC 61800-5-1:2007 + A1:2016 - Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy
- IEC 62061:2005 + A1:2012 + A2:2015 - Safety of Machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems
- ISO 13849-1:2015 - Safety of Machinery – Safety related parts of control systems – Part 1: General principles for design
- IEC 60204-1:2016 - Safety of Machinery – Electrical equipment of machines – Part 1: General requirements
- EN 60204-11: 2000

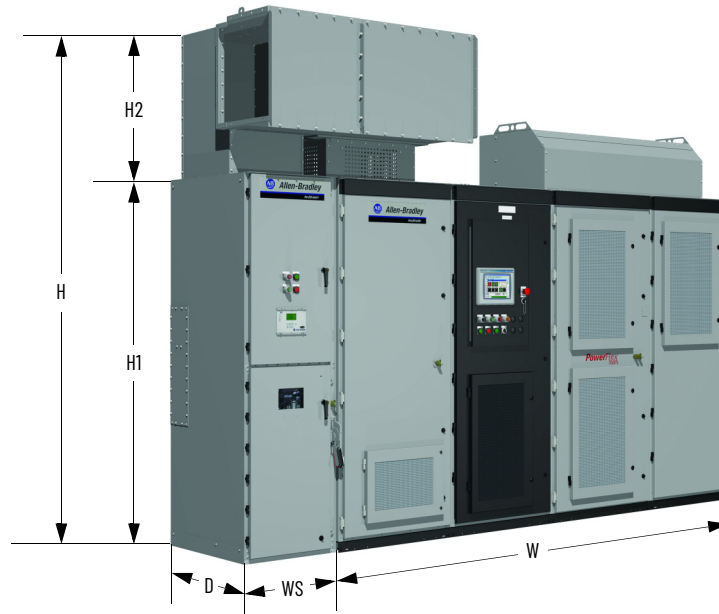
The PowerFlex 7000 drive with ArcShield technology meets the following safety standards:

- IEEE C37.20.7 - Guide for Testing Metal-enclosed Switchgear Rated up to 38 kV for Internal Arcing Faults
- CSA C22.2 No. 22-11 - Evaluation Methods for Arc Resistant Ratings for Enclosed Electrical Equipment
- EEMAC G14-1 - Procedure for testing the resistance of Metal- Enclosed and Metal-clad Switchgear Under Conditions of Arcing due to an Internal Fault
- IEC 62271-200 Annex AA - High-voltage switchgear and control gear – Part 200: AC metal-enclosed switchgear and control gear for rated voltages above 1 kV and up to and including 52 kV
- IEC 62477-2 (DRAFT) - Safety requirements for power semiconductor converter systems – Part 2: Power electronic converters from 1000 V AC or 1500 V DC up to 36 kV AC or 54 kV DC)

Dimensions

The graphic and tables define the dimensions listed in the Product Selection Tables for [PowerFlex 7000 Drives with ArcShield Technology on page 13](#).

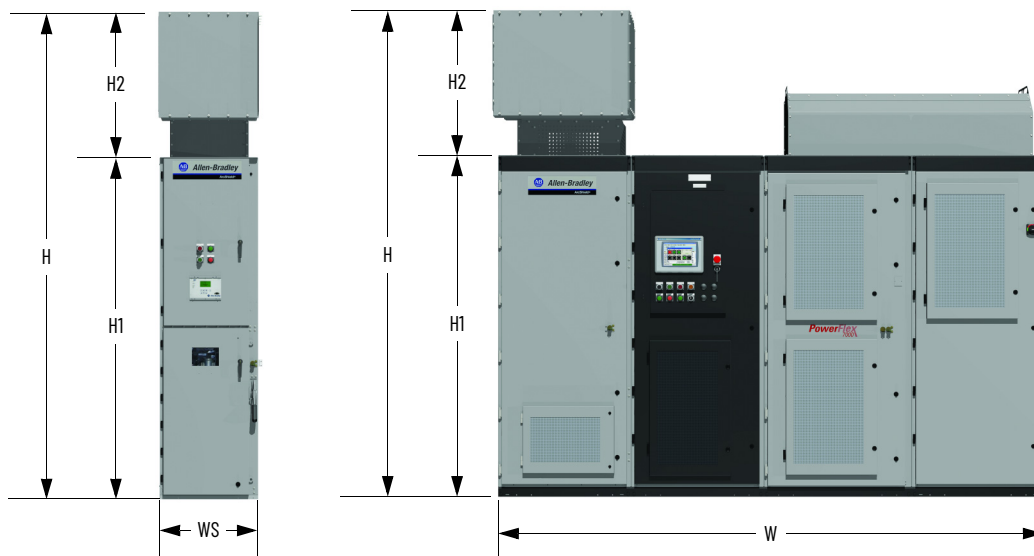
Fully Integrated ArcShield Drive System (40 kA Arc Resistant Rating)



Approximate Dimensions for Fully Integrated Units

Width		Depth	Height		
W	WS	D	H1	H2	H
Width	40 kA Starter Width	Total Depth	Height of Cabinet	Height of Plenum	Total Height

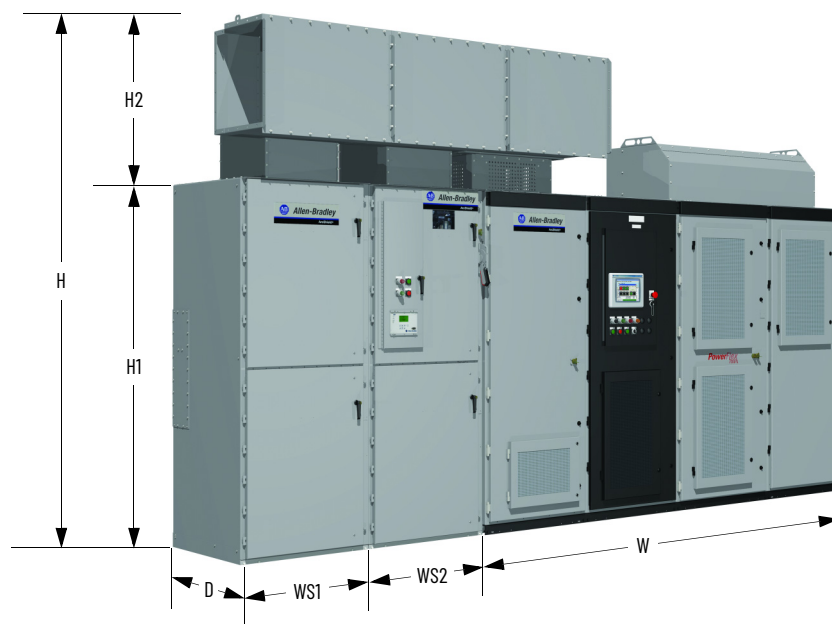
Connection to New/Existing MV MCC Lineup



40 kA ArcShield Drive Input Starters

Arc Rating	Width		Depth		Height						Cat. No.
	W		D		H1		H2		H		
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
40 kA fully integrated	661	26.0	915	36.0	2318	91.3	978	38.5	3296	129.8	1512AD-T__X -14__ -__

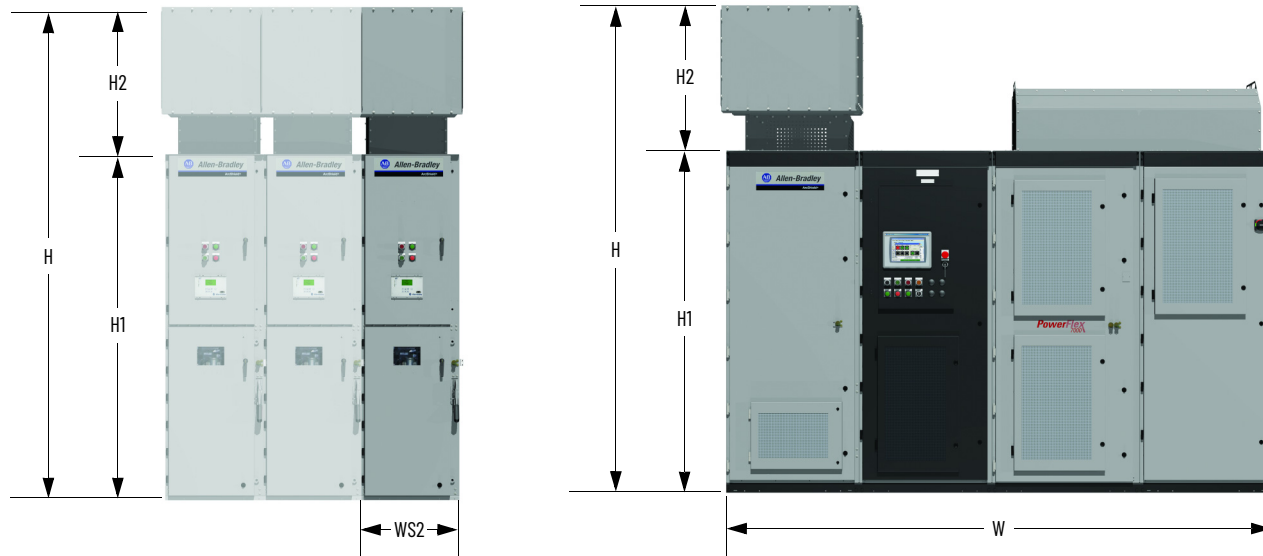
Fully Integrated ArcShield Drive System (50 kA Arc Resistant Rating)



Approximate Dimensions for Fully Integrated Units

Width			Depth	Height		
W	WS1	WS2	D	H1	H2	H
Width	50 kA incoming line section width ⁽¹⁾	50 kA Starter Width ⁽¹⁾	Total Depth	Height of Cabinet	Height of Plenum	Total Height

Connection to New/Existing MV MCC Lineup



50 kA ArcShield Drive Input Starters

Arc Rating	Width				Depth		Height						Cat. No.
	WS1		WS2		WS2		H1		H2		H		
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
50 kA fully integrated	—	—	915	36.0	915	36.0	2413	95.0	978	38.5	3296	129.8	1512AD-C __X -14__ -__
	915	36.0	—	—									1591A__ - BX__ -__
50 kA existing lineup - bottom cable entry/exit ⁽¹⁾	661	26.0	661	26.0			2318	91.3					1512AD-T __X -14__ -__
50 kA existing lineup - top cable entry/exit ⁽¹⁾	915	36.0	915	36.0									1512AD-C __X -14__ -__

(1) Minimum 72 in. total starter lineup width is required.

The graphic and tables define the dimensions that are listed in the Product Selection Tables for [PowerFlex 7000 Air-cooled Drives on page 17](#) and [PowerFlex 7000 Liquid-cooled Drives on page 34](#).

Air-cooled and Liquid-cooled Drives



Approximate Dimensions

W	Width
D	Depth
H1	Height of Cabinet
H2	Height of Fan
H	Total Height (including Fan)

Service Duty Rating, Continuous Current Rating, and Altitude Rating Code

There are 11 different codes that define service duty and altitude in the drive catalog number.

For example, catalog number 7000 – **A105DEHD-RPDTD**, has a continuous current rating of 105 A, with a “normal duty” service rating up to 1000 meters altitude.

Service Duty Rating and Altitude Rating Code		Continuous Current Capability		Frame Size		
		Code	Rating (A)	A	B	C
A	Normal Duty, 0...1000 m (0...3281 ft) Altitude Maximum 40 °C (104 °F) Ambient	40	40	✓	✓	–
		46	46	✓	✓	–
B	Normal Duty, 1001...5000 m (3284...16,404 ft) Altitude Reduced Ambient Temperature (from 40 °C [104 °F] offering) • 1001...2000 m = 37.5 °C (3284...6562 ft = 99.5 °F) • 2001...3000 m = 35 °C (6565...9843 ft = 95 °F) • 3001...4000 m = 32.5 °C (9846...13,123 ft = 90.5 °F) • 4001...5000 m = 30 °C (13,127...16,404 ft = 86 °F)	53	53	✓	✓	–
		61	61	✓	✓	–
		70	70	✓	✓	–
		81	81	✓	✓	–
		93	93	✓	✓	–
		105	105	✓	✓	–
C	Heavy Duty, 0...1000 m (0...3281 ft) Altitude Maximum 40 °C (104 °F) Ambient Temperature	120	120	✓	✓	–
		140	140	✓	✓	–
D	Heavy Duty, 1001...5000 m (3284...16,404 ft) Altitude Reduced Ambient Temperature (from 40 °C [104 °F] offering) – same as ‘B’ above	160	160	✓	✓	–
		185	185	–	✓	✓
E	Normal Duty, 0...1000 m (0...3281 ft) Altitude 35 °C (95 °F) Ambient Temperature	215	215	–	✓	✓
		250	250	–	✓	✓
F	Normal Duty, 1001...5000 m (3284...16,404 ft) Altitude Reduced Ambient Temperature (from 35 °C [95 °F] offering) • 1001...2000 m = 32.5 °C (3284...6562 ft = 90.5 °F) • 2001...3000 m = 30 °C (6565...9843 ft = 86 °F) • 3001...4000 m = 27.5 °C (9846...13,123 ft = 81.5 °F) • 4001...5000 m = 25 °C (13,127...16,404 ft = 77 °F)	285	285	–	✓	✓
		325	325	–	✓	✓
		375	375	–	✓	✓
		430	430	–	✓	✓
		495	495	–	✓	✓
		575	575	–	✓	✓
G	Heavy Duty, 0...1000 m (0...3281 ft) Altitude Maximum 35 °C (95 °F) Ambient Temperature	625	625	–	✓	✓
		657	657	–	–	✓
J	Normal Duty, 0...1000 m (0...3281 ft) Altitude Maximum 50 °C (122 °F) Ambient Temperature	720	720	–	✓	–
L	Heavy Duty, 0...1000 m (0...3281 ft) Altitude Maximum 50 °C (122 °F) Ambient Temperature					
N	Normal Duty, 0...1000 m (0...3281 ft) Altitude Maximum 20 °C (68 °F) Ambient Temperature					
Z	Custom Configuration (Contact your local sales office or distributor)					

Some applications may require an ‘INTERMEDIATE DUTY’ rating (between Normal Duty and Heavy Duty), ‘ULTRA HEAVY DUTY’ rating, (more than 150% overload), or ‘STARTING DUTY’ rating (typically used to start unloaded or lightly loaded applications).

Product Selection Tables

The PowerFlex 7000 drive selection tables are based on two types of drive service duty ratings.

1. Normal Duty (110% overload for 1 minute, once every 10 minutes)
 - Used for Variable Torque (VT) applications only. Drives with this rating are designed for 100% continuous operation, with 110% overload for 1 minute, once every 10 minutes.
2. Heavy Duty (150% for 1 minute, once every 10 minutes)
 - Used for Constant Torque (CT) or Variable Torque (VT) applications. Drives with this rating are designed for 100% continuous operation, with 150% overload for 1 minute, once every 10 minutes.

PowerFlex 7000 Drives with ArcShield Technology

Direct-to-Drive/Normal Duty

2.4 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
				W		D		H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	51	150	200	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	3975	8763	7000-A__A_-RPDTD
53	58	168	225	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	3975	8763	7000-A__A_-RPDTD
61	67	187	250	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4031	8887	7000-A__A_-RPDTD
70	77	225	300	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4031	8887	7000-A__A_-RPDTD
81	89	261	350	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4301	9482	7000-A__A_-RPDTD
93	102	300	400	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4301	9482	7000-A__A_-RPDTD
105	116	335	450	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4411	9725	7000-A__A_-RPDTD
120	132	373	500	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4411	9725	7000-A__A_-RPDTD
140	154	450	600	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4551	10033	7000-A__A_-RPDTD
160	176	522	700	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4637	10223	7000-A__A_-RPDTD
185	204	600	800	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-A__A_-RPDTD
215	237	670	900	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-A__A_-RPDTD
250	275	750	1000	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-A__A_-RPDTD
285	314	933	1250	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-A__A_-RPDTD
325	358	1120	1500	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-A__A_-RPDTD
375	413	1300	1750	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-E__A__ D-RPDTD
430	473	1500	2000	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-E__A__ D-RPDTD

3.3 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
				W		D		H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	51	187	250	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-A__C_Y-RPDTD
53	58	225	300	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-A__C_Y-RPDTD
61	67	261	350	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-A__C_Y-RPDTD
70	77	300	400	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-A__C_Y-RPDTD
81	89	373	500	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-A__C_Y-RPDTD
93	102	410	550	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-A__C_Y-RPDTD
105	116	450	600	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-A__C_Y-RPDTD
120	132	560	750	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-A__C_Y-RPDTD
140	154	600	800	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5511	12150	7000-A__C_Y-RPDTD
160	176	750	1000	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__C_D-RPDTD
185	204	820	1100	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__C_D-RPDTD
215	237	933	1250	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__C_D-RPDTD
250	275	1120	1500	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__C_D-RPDTD
285	314	1300	1750	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-A__C_D-RPDTD
325	358	1500	2000	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-A__C_D-RPDTD
375	413	1865	2500	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-E__C__D-RPDTD
430	473	2050	2750	4100	161.4	1000	39.4	2318	91.3	978	38.5	3296	129.8	7501	16537	7000-E__C__D-RPDTD

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
				W		D		H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	51	261	350	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-A__E_-RPD TD
53	58	300	400	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-A__E_-RPD TD
61	67	335	450	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-A__E_-RPD TD
70	77	373	500	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-A__E_-RPD TD
81	89	450	600	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-A__E_-RPD TD
93	102	522	700	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-A__E_-RPD TD
105	116	600	800	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-A__E_-RPD TD
120	132	671	900	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-A__E_-RPD TD
140	154	750	1000	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5511	12150	7000-A__E_-RPD TD
160	176	933	1250	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__E_-RPD TD
185	204	1082	1450	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__E_-RPD TD
215	237	1120	1500	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__E_-RPD TD
250	275	1500	2000	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__E_-RPD TD
285	314	1680	2250	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-A__E_-RPD TD
325	358	1865	2500	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-A__E_-RPD TD
375	413	2240	3000	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-E__E_-D-RPD TD
430	473	2600	3500	4100	161.4	1000	39.4	2318	91.3	978	38.5	3296	129.8	7501	16537	7000-E__E_-D-RPD TD

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	51	261	350	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-A__E_-RPD TD
53	58	300	400	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-A__E_-RPD TD
61	67	335	450	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-A__E_-RPD TD
70	77	373	500	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-A__E_-RPD TD
81	89	450	600	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-A__E_-RPD TD
93	102	522	700	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-A__E_-RPD TD
105	116	600	800	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-A__E_-RPD TD
120	132	671	900	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-A__E_-RPD TD
140	154	750	1000	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5511	12150	7000-A__E_-RPD TD
160	176	933	1250	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__E_-RPD TD
185	204	1082	1450	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__E_-RPD TD
215	237	1120	1500	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__E_-RPD TD
250	275	1500	2000	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-A__E_-RPD TD
285	314	1680	2250	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-A__E_-RPD TD
325	358	1865	2500	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-A__E_-RPD TD
375	413	2240	3000	4100	161.4	1000	39.4	2318	91.3	978	38.5	3296	129.8	6410	14132	7000-E__E_-D-RPD TD
430	473	2600	3500	4100	161.4	1000	39.4	2318	91.3	978	38.5	3296	129.8	7501	16537	7000-E__E_-D-RPD TD

Direct-to-Drive/Heavy Duty

2.4 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	150	200	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	3975	8763	7000-C__A_-RPD TD
53	80	168	225	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	3975	8763	7000-C__A_-RPD TD
61	92	187	250	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4031	8887	7000-C__A_-RPD TD
70	105	225	300	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4031	8887	7000-C__A_-RPD TD
81	122	261	350	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4301	9482	7000-C__A_-RPD TD
93	140	300	400	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4301	9482	7000-C__A_-RPD TD
105	158	335	450	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4411	9725	7000-C__A_-RPD TD
120	180	373	500	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4411	9725	7000-C__A_-RPD TD
140	210	450	600	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4551	10033	7000-C__A_D-RPD TD
160	240	522	700	3300	129.9	1000	39.4	2318	91.3	978	38.5	3296	129.8	4637	10223	7000-C__A_D-RPD TD
185	278	600	800	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-C__A_D-RPD TD
215	323	670	900	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-C__A_D-RPD TD
250	375	750	1000	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4410	9722	7000-C__A_D-RPD TD

3.3 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	187	250	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-C__C_Y-RPDTD
53	80	225	300	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-C__C_Y-RPDTD
61	92	261	350	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-C__C_Y-RPDTD
70	105	300	400	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-C__C_Y-RPDTD
81	122	373	500	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-C__C_Y-RPDTD
93	140	410	550	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-C__C_Y-RPDTD
105	158	450	600	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-C__C_D-RPDTD
120	180	560	750	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-C__C_D-RPDTD
140	210	600	800	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5511	12150	7000-C__C_D-RPDTD
160	240	750	1000	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__C_D-RPDTD
185	278	820	1100	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__C_D-RPDTD
215	323	933	1250	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__C_D-RPDTD

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	261	350	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-C__E_Y-RPDTD
53	80	300	400	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-C__E_Y-RPDTD
61	92	335	450	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-C__E_Y-RPDTD
70	105	373	500	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-C__E_Y-RPDTD
81	122	450	600	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-C__E_Y-RPDTD
93	140	522	700	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-C__E_Y-RPDTD
105	158	600	800	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-C__E_Y-RPDTD
120	180	671	900	3500	137.8	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-C__E_Y-RPDTD
140	210	750	1000	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5511	12150	7000-C__E_Y-RPDTD
160	240	933	1250	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__E_Y-RPDTD
185	278	1082	1450	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__E_Y-RPDTD
215	323	1120	1500	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__E_Y-RPDTD

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		mm	in.	mm	in.	mm	in.	kg	lb	
				mm	in.	mm	in.									mm
46	69	261	350	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-C__E_Y-RPDTD
53	80	300	400	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	4915	10836	7000-C__E_Y-RPDTD
61	92	335	450	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-C__E_Y-RPDTD
70	105	373	500	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5021	11069	7000-C__E_Y-RPDTD
81	122	450	600	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-C__E_Y-RPDTD
93	140	522	700	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5201	11466	7000-C__E_D-RPDTD
105	158	600	800	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-C__E_D-RPDTD
120	180	671	900	3700	145.7	1000	39.4	2318	91.3	978	38.5	3296	129.8	5431	11973	7000-C__E_D-RPDTD
140	210	750	1000	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5511	12150	7000-C__E_D-RPDTD
160	240	933	1250	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__E_D-RPDTD
185	278	1082	1450	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__E_D-RPDTD
215	323	1120	1500	3900	153.5	1000	39.4	2318	91.3	978	38.5	3296	129.8	5705	12577	7000-C__E_D-RPDTD

Dimensions and weights that are shown are for the drive only and are meant to be used with an input starter in a new or existing Allen-Bradley medium voltage MCC lineup. See the input starter dimensions and weights that are shown on pages [9...10](#) to create a fully integrated, standalone drive system configuration.

PowerFlex 7000 Air-cooled Drives

Direct-to-Drive/Normal Duty

2.4 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	51	150	200	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
53	58	168	225	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
61	67	187	250	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
70	77	225	300	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
81	89	261	350	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
93	102	300	400	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
105	116	335	450	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
120	132	373	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
140	154	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DA_-RPDTD
160	176	522	700	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	4546	10022	7000-A DA_-RPDTD
185	204	600	800	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DA_-RPDTD
215	237	670	900	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DA_-RPDTD
250	275	750	1000	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DA_-RPDTD
285	314	933	1250	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DA_-RPDTD
325	358	1120	1500	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DA_-RPDTD
375	413	1300	1750	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-E375DA D-RPDTD
430	473	1500	2000	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-E430DA D-RPDTD

3.3 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	51	187	250	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
53	58	225	300	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
61	67	261	350	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
70	77	300	400	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
81	89	373	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
93	102	410	550	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
105	116	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
120	132	560	750	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
140	154	600	800	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DC_Y-RPDTD
160	176	750	1000	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DC_D-RPDTD
185	204	820	1100	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DC_D-RPDTD
215	237	933	1250	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DC_D-RPDTD
250	275	1120	1500	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DC_D-RPDTD
285	314	1300	1750	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-A DC_D-RPDTD
325	358	1500	2000	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-A DC_D-RPDTD
375	413	1865	2500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-E375DC D-RPDTD
430	473	2050	2750	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-E430DC D-RPDTD
495	545	2400	3250	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E DC_D-RPDTD
575	633	2800	3750	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E DC_D-RPDTD
625	688	3100	4250	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E DC_D-RPDTD
720	792	3600	4750	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-N720DC_D-RPDTD

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		mm	in.	mm	in.	mm	in.	kg	lb	
46	51	261	350	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
53	58	300	400	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
61	67	335	450	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
70	77	373	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
81	89	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
93	102	522	700	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
105	116	600	800	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
120	132	671	900	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
140	154	750	1000	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPD TD
160	176	933	1250	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DE_-RPD TD
185	204	1082	1450	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DE_-RPD TD
215	237	1120	1500	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DE_-RPD TD
250	275	1500	2000	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DE_-RPD TD
285	314	1680	2250	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-A DE_-RPD TD
325	358	1865	2500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-A DE_-RPD TD
375	413	2240	3000	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-E -DE_D-RPD TD
430	473	2600	3500	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-E -DE_D-RPD TD
495	545	3000	4000	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E -DE_D-RPD TD
575	633	3360	4500	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E -DE_D-RPD TD
625	688	3730	5000	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E -DE_D-RPD TD
720	792	4400	5750	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-N720E D-RPD TD

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	51	261	350	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
53	58	300	400	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
61	67	335	450	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
70	77	373	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
81	89	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
93	102	522	700	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
105	116	600	800	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
120	132	671	900	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
140	154	750	1000	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-A DE_-RPDTD
160	176	933	1250	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DE_-RPDTD
185	204	1082	1450	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DE_-RPDTD
215	237	1120	1500	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DE_-RPDTD
250	275	1500	2000	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-A DE_-RPDTD
285	314	1680	2250	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-A DE_-RPDTD
325	358	1865	2500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-A DE_-RPDTD
375	413	2240	3000	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-E375-DE D-RPDTD

6.6 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
				W		D		H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
40	44	400	500	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
46	51	410	550	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
53	58	450	600	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
61	67	560	750	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
70	77	671	900	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
81	89	750	1000	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
93	102	895	1200	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
105	116	933	1250	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-A DJ_D-RPDTD
120	132	1120	1500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-A DJ_D-RPDTD
140	154	1300	1750	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
160	176	1500	2000	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
185	204	1680	2250	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
215	237	2050	2750	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
250	275	2240	3000	4300	169.3	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
285	314	2600	3500	4300	169.3	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD

6.6 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
				W		D		H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
40	44	400	500	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
46	51	410	550	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
53	58	450	600	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
61	67	560	750	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
70	77	671	900	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
81	89	750	1000	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
93	102	895	1200	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	3410	7518	7000A-A DJY-RPDTD
105	116	933	1250	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-A DJ_D-RPDTD
120	132	1120	1500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-A DJ_D-RPDTD
140	154	1300	1750	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
160	176	1500	2000	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
185	204	1680	2250	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
215	237	2050	2750	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
250	275	2240	3000	4300	169.3	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
285	314	2600	3500	4300	169.3	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-A DJ_D-RPDTD
325	358	3000	4000	8491	334.3	1456	57.3	2413	95.0	325	12.8	2738	107.8	10400	22928	7000-E DJ_D-RPDTD
375	413	3730	5000	9291	365.8	1456	57.3	2413	95.0	325	12.8	2738	107.8	13500	29762	7000-E DJ_D-RPDTD
430	473	4100	5500	9291	365.8	1456	57.3	2413	95.0	325	12.8	2738	107.8	13500	29762	7000-E DJ_D-RPDTD
495	545	4850	6500	9291	365.8	1456	57.3	2413	95.0	325	12.8	2738	107.8	13500	29762	7000-E DJ_D-RPDTD
575	633	5595	7000	9291	365.8	1456	57.3	2413	95.0	325	12.8	2738	107.8	13500	29762	7000-E DJ_D-RPDTD
625	688	6000	8000	9291	365.8	1456	57.3	2413	95.0	325	12.8	2738	107.8	13500	29762	7000-N DJ_D-RPDTD

Direct-to-Drive/Heavy Duty

2.4 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	150	200	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DA_-RPDTD
53	80	168	225	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DA_-RPDTD
61	92	187	250	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DA_-RPDTD
70	105	225	300	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DA_-RPDTD
81	122	261	350	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DA_-RPDTD
93	140	300	400	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DA_-RPDTD
105	158	335	450	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DA_-RPDTD
120	180	373	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DA_-RPDTD
140	210	450	600	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	4546	10022	7000-C DA_D-RPDTD
160	240	522	700	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	4546	10022	7000-C DA_D-RPDTD
185	278	600	800	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-C DA_D-RPDTD
215	323	670	900	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-C DA_D-RPDTD
250	375	750	1000	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-C DA_D-RPDTD

3.3 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	187	250	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DC_Y-RPDTD
53	80	225	300	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DC_Y-RPDTD
61	92	261	350	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DC_Y-RPDTD
70	105	300	400	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DC_Y-RPDTD
81	122	373	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DC_Y-RPDTD
93	140	410	550	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DC_Y-RPDTD
105	158	450	600	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-C DC_D-RPDTD
120	180	560	750	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-C DC_D-RPDTD
140	210	600	800	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-C DC_D-RPDTD
160	240	750	1000	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DC_D-RPDTD
185	278	820	1100	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DC_D-RPDTD
215	323	933	1250	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DC_D-RPDTD
285	428	1300	1750	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-G DC_D-RPDTD
325	488	1500	2000	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-G DC_D-RPDTD

4.16kV 60Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	261	350	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD
53	80	300	400	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD
61	92	335	450	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD
70	105	373	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD
81	122	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD
93	140	522	700	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD
105	158	600	800	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4546	10022	7000-C DE_Y-RPDTD
120	180	671	900	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	4546	10022	7000-C DE_Y-RPDTD
140	210	750	1000	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-C DE_Y-RPDTD
160	240	933	1250	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DE_Y-RPDTD
185	278	1082	1450	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DE_Y-RPDTD
215	323	1120	1500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DE_Y-RPDTD
285	428	1680	2250	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-G DE_Y-RPDTD
325	488	1865	2500	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-G DE_Y-RPDTD

4.6 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number	
				Width		Depth		Height									
								H1		H2		H					
Cont.	1 Min.	kW	Hp	W		D		mm		in.		mm		in.		kg	lb
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.				
46	69	261	350	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD	
53	80	300	400	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD	
61	92	335	450	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD	
70	105	373	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD	
81	122	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000A-C DE_Y-RPDTD	
93	140	522	700	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-C DE_D-RPDTD	
105	158	600	800	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-C DE_D-RPDTD	
120	180	671	900	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	5614	12377	7000-C DE_D-RPDTD	
140	210	750	1000	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DE_D-RPDTD	
160	240	933	1250	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DE_D-RPDTD	
185	278	1082	1450	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DE_D-RPDTD	
215	323	1120	1500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	6319	13931	7000-C DE_D-RPDTD	

6.6 kV 50/60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
40	60	400	500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-C AJ_D-RPDTD
46	69	410	550	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-C AJ_D-RPDTD
53	80	450	600	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-C AJ_D-RPDTD
61	92	560	750	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-C AJ_D-RPDTD
70	105	671	900	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4773	10523	7000-C AJ_D-RPDTD
81	122	750	1000	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-C AJ_D-RPDTD
93	140	895	1200	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-C AJ_D-RPDTD
105	158	933	1250	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-C AJ_D-RPDTD
120	180	1120	1500	4100	161.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	7410	16336	7000-C AJ_D-RPDTD
140	210	1300	1750	4400	173.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	6637	14632	7000-C AJ_D-RPDTD
160	240	1500	2000	4400	173.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	6637	14632	7000-C AJ_D-RPDTD
185	278	1680	2250	4400	173.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	6637	14632	7000-C AJ_D-RPDTD

6.6 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
215	323	2050	2750	8491	334.3	1456	57.3	2334	91.9	404	15.9	2738	107.8	10400	22928	7000-G AJ_D-RPDTD
250	375	2240	3000	8491	334.3	1456	57.3	2334	91.9	404	15.9	2738	107.8	10400	22928	7000-G AJ_D-RPDTD

AFE - Connection to Separate Transformer/Normal Duty

2.4 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	51	150	200	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
53	58	168	225	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
61	67	187	250	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
70	77	225	300	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
81	89	261	350	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
93	102	300	400	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
105	116	335	450	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
120	132	373	500	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
140	154	450	600	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
160	176	522	700	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DAD_-RPTX
185	204	600	800	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000-A DA_D-RPTX
215	237	670	900	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000-A DA_D-RPTX
250	275	750	1000	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000-A DA_D-RPTX
285	314	933	1250	2600	102.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000-A DA_D-RPTX
325	358	1120	1500	2600	102.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000-A DA_D-RPTX
375	413	1300	1750	2600	102.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000-E375-DA D-RPTX
430	473	1500	2000	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	2500	5512	7000-E430-DA D-RPTX

3.3 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	51	187	250	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
53	58	225	300	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
61	67	261	350	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
70	77	300	400	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
81	89	373	500	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
93	102	410	550	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
105	116	450	600	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
120	132	560	750	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
140	154	600	800	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
160	176	750	1000	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DCDY-RPTX
185	204	820	1100	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	2364	5212	7000-A DC_D-RPTX
215	237	933	1250	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DC_D-RPTX
250	275	1120	1500	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DC_D-RPTX
285	314	1300	1750	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DC_D-RPTX
325	358	1500	2000	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DC_D-RPTX
375	413	1865	2500	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-E375-DC D-RPTX
430	473	2050	2750	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-E430-DC D-RPTX
495	545	2400	3250	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E DC_D-RPTX
575	633	2800	3750	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E DC_D-RPTX
625	688	3100	4250	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E DC_D-RPTX
720	792	3600	4750	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-N720DC_D-RPTX

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	51	261	350	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
53	58	300	400	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
61	67	335	450	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
70	77	373	500	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
81	89	450	600	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
93	102	522	700	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
105	116	600	800	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
120	132	671	900	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
140	154	750	1000	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
160	176	933	1250	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED.-RPTX
185	204	1082	1450	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	2500	5512	7000-A DE_D-RPTX
215	237	1120	1500	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	2500	5512	7000-A DE_D-RPTX
250	275	1500	2000	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	2500	5512	7000-A DE_D-RPTX
285	314	1680	2250	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DE_D-RPTX
325	358	1865	2500	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	3864	8519	7000-A DE_D-RPTX
375	413	2240	3000	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	3864	8519	7000-E375-DE D-RPTX
430	473	2600	3500	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-E430-DE D-RPTX
495	545	3000	4000	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E430-DE D-RPTX
575	633	3360	4500	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E430-DE D-RPTX
625	688	3730	5000	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-E430-DE D-RPTX
720	792	4400	5750	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-N720E D-RPTX

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		mm	in.	mm	in.	mm	in.	kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	51	261	350	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
53	58	300	400	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
61	67	335	450	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
70	77	373	500	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
81	89	450	600	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
93	102	522	700	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
105	116	600	800	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
120	132	671	900	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
140	154	750	1000	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-A DED_-RPTX
160	176	933	1250	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DE_D-RPTX
185	204	1082	1450	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DE_D-RPTX
215	237	1120	1500	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DE_D-RPTX
250	275	1500	2000	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	3864	8519	7000-A DE_D-RPTX
285	314	1680	2250	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	3864	8519	7000-A DE_D-RPTX
325	358	1865	2500	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	3864	8519	7000-A DE_D-RPTX
375	413	2240	3000	3500	137.8	1000	39.4	2318	91.3	325	12.8	2643	104.1	3864	8519	7000-E375-DE D-RPTX
430	473	2600	3500	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-E430-DE D-RPTX

6.6 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
40	44	400	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
46	51	410	550	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
53	58	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
61	67	560	750	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
70	77	671	900	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
81	89	750	1000	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
93	102	895	1200	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
105	116	933	1250	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
120	132	1120	1500	3200	126.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DJ_D-RPTX
140	154	1300	1750	3200	126.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DJ_D-RPTX
160	176	1500	2000	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-RPTX
185	204	1680	2250	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-RPTX
215	237	2050	2750	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DJ_D-RPTX
250	275	2240	3000	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DJ_D-RPTX
285	314	2600	3500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DJ_D-RPTX

6.6 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
40	44	400	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
46	51	410	550	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
53	58	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
61	67	560	750	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
70	77	671	900	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
81	89	750	1000	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
93	102	895	1200	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
105	116	933	1250	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-A DJDY-RPTX
120	132	1120	1500	3200	126.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DJ_D-RPTX
140	154	1300	1750	3200	126.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-A DJ_D-RPTX
160	176	1500	2000	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-RPTX
185	204	1680	2250	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-RPTX
215	237	2050	2750	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DJ_D-RPTX
250	275	2240	3000	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DJ_D-RPTX
285	314	2600	3500	3900	153.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	4319	9522	7000-A DJ_D-RPTX
325	358	3000	4000	6891	271.3	1456	57.3	2334	91.9	404	15.9	2738	107.8	8300	18298	7000-A DJ_D-RPTX
375	413	3730	5000	7491	294.9	1456	57.3	2334	91.9	404	15.9	2738	107.8	8800	19401	7000-A DJ_D-RPTX
430	473	4100	5500	7491	294.9	1456	57.3	2334	91.9	404	15.9	2738	107.8	8800	19401	7000-A DJ_D-RPTX
495	545	4850	6500	7491	294.9	1456	57.3	2334	91.9	404	15.9	2738	107.8	8800	19401	7000-A DJ_D-RPTX
575	633	5595	7000	7491	294.9	1456	57.3	2334	91.9	404	15.9	2738	107.8	8800	19401	7000-A DJ_D-RPTX
625	688	6000	8000	7491	294.9	1456	57.3	2334	91.9	404	15.9	2738	107.8	8800	19401	7000-A DJ_D-RPTX

AFE - Connection to Separate Transformer/Heavy Duty

2.4 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	150	200	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
53	80	168	225	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
61	92	187	250	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
70	105	225	300	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
81	122	261	350	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
93	140	300	400	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
105	158	335	450	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
120	180	373	500	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
140	210	450	600	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
160	240	522	700	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DA_-RPTX
185	278	600	800	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000-C DA_D-RPTX
215	323	670	900	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000-C DA_D-RPTX
250	375	750	1000	2600	102.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000-C DA_D-RPTX

3.3 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	187	250	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
53	80	225	300	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
61	92	261	350	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
70	105	300	400	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
81	122	373	500	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
93	140	410	550	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
105	158	450	600	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
120	180	560	750	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
140	210	600	800	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
160	240	750	1000	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DC_Y-RPTX
185	278	820	1100	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	2364	5212	7000-C DC_D-RPTX
215	323	933	1250	2800	110.2	1000	39.4	2318	91.3	325	12.8	2643	104.1	2364	5212	7000-C DC_D-RPTX
285	428	1300	1750	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-G DC_D-RPTX
325	488	1500	2000	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-G DC_D-RPTX

4.16 kV 50/60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
				W		D		H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	69	261	350	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
53	80	300	400	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
61	92	335	450	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
70	105	373	500	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
81	122	450	600	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
93	140	522	700	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
105	158	600	800	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
120	180	671	900	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
140	210	750	1000	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
160	240	933	1250	2100	82.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	1955	4310	7000A-C DE_Y-RPTX
185	278	1082	1450	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-C DE_D-RPTX
215	323	1120	1500	3000	118.1	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-C DE_D-RPTX
285	428	1680	2250	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-G DE_D-RPTX
325	488	1865	2500	6634	261.2	1456	57.3	2334	91.9	340	13.4	2674	105.3	10910	24052	7000-G DE_D-RPTX

6.6 kV 50/60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		mm	in.	mm	in.	mm	in.	kg	lb	
				mm	in.	mm	in.									
40	60	400	500	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-C DJ_Y-RPTX
46	69	410	550	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-C DJ_Y-RPTX
53	80	450	600	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-C DJ_Y-RPTX
61	92	560	750	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-C DJ_Y-RPTX
70	105	671	900	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-C DJ_Y-RPTX
81	122	750	1000	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-C DJ_Y-RPTX
93	140	895	1200	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-C DJ_Y-RPTX
105	158	933	1250	2400	94.5	1000	39.4	2318	91.3	325	12.8	2643	104.1	2160	4762	7000A-C DJ_Y-RPTX
120	180	1120	1500	3200	126.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-C DJ_Y-RPTX
140	210	1300	1750	3200	126.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2841	6263	7000-C DJ_Y-RPTX
160	240	1500	2000	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-C DJ_Y-RPTX
185	278	1680	2250	3700	145.7	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-C DJ_Y-RPTX

6.6 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
215	323	2050	2750	6891	271.3	1456	57.3	2334	91.9	404	15.9	2738	107.8	8300	18298	7000-C DJ_D-RPTX
250	375	2240	3000	6891	271.3	1456	57.3	2334	91.9	404	15.9	2738	107.8	8300	18298	7000-C DJ_D-RPTX

18 Pulse - Connection to Separate Transformer/Normal Duty

2.4 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	51	150	200	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
53	58	168	225	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
61	67	187	250	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
70	77	225	300	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
81	89	261	350	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
93	102	300	400	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
105	116	335	450	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
120	132	373	500	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
140	154	450	600	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
160	176	522	700	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
185	204	600	800	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
215	237	670	900	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
250	275	750	1000	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
285	314	933	1250	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
325	358	1120	1500	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
375	413	1300	1750	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX
430	473	1500	2000	3100	122.0	1000	1000.0	2318	2318.0	325	325.0	2643	2643.0	2637	5814	7000-A DA_D-R18TX

3.3 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		mm	in.	mm	in.	mm	in.	kg	lb	
				mm	in.	mm	in.									
46	51	187	250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
53	58	225	300	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
61	67	261	350	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
70	77	300	400	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
81	89	373	500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
93	102	410	550	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
105	116	450	600	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
120	132	560	750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
140	154	600	800	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
160	176	750	1000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
185	204	820	1100	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
215	237	933	1250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
250	275	1120	1500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
285	314	1300	1750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
325	358	1500	2000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
375	413	1865	2500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX
430	473	2050	2750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DC_D-R18TX

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
				W		D		H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	51	261	350	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
53	58	300	400	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
61	67	335	450	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
70	77	373	500	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
81	89	450	600	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
93	102	522	700	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
105	116	600	800	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
120	132	671	900	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
140	154	750	1000	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
160	176	933	1250	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
185	204	1082	1450	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
215	237	1120	1500	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
250	275	1500	2000	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
285	314	1680	2250	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
325	358	1865	2500	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-A DE_D-R18TX
375	413	2240	3000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
430	473	2600	3500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	51	261	350	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
53	58	300	400	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
61	67	335	450	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
70	77	373	500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
81	89	450	600	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
93	102	522	700	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
105	116	600	800	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
120	132	671	900	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
140	154	750	1000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
160	176	933	1250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
185	204	1082	1450	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
215	237	1120	1500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
250	275	1500	2000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
285	314	1680	2250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
325	358	1865	2500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
375	413	2240	3000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DE_D-R18TX
430	473	2600	3500	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DE_D-R18TX

6.6 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
40	44	400	500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
46	51	410	550	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
53	58	450	600	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
61	67	560	750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
70	77	671	900	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
81	89	750	1000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
93	102	895	1200	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
105	116	933	1250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
120	132	1120	1500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
140	154	1300	1750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
160	176	1500	2000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
185	204	1680	2250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
215	237	2050	2750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
250	275	2240	3000	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX
285	314	2600	3500	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX
325	358	3000	4000	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX
375	413	3730	5000	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX
430	473	4100	5500	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX

6.6 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
40	44	400	500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
46	51	410	550	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
53	58	450	600	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
61	67	560	750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
70	77	671	900	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
81	89	750	1000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
93	102	895	1200	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
105	116	933	1250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
120	132	1120	1500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
140	154	1300	1750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
160	176	1500	2000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
185	204	1680	2250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
215	237	2050	2750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-A DJ_D-R18TX
250	275	2240	3000	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX
285	314	2600	3500	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX
325	358	3000	4000	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX
375	413	3730	5000	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX
430	473	4100	5500	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-A DJ_D-R18TX

18 Pulse - Connection to Separate Transformer/Heavy Duty

2.4 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
				W		D		H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
40	44	400	500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DA_D-R18TX
46	69	150	200	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
53	80	168	225	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
61	92	187	250	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
70	105	225	300	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
81	122	261	350	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
93	140	300	400	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
105	158	335	450	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
120	180	373	500	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
140	210	450	600	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
160	240	522	700	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
185	278	600	800	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
215	323	670	900	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
250	375	750	1000	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
285	428	933	1250	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
325	488	1120	1500	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
375	563	1300	1750	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX
430	645	1500	2000	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DA_D-R18TX

3.3 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
46	69	187	250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
53	80	225	300	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
61	92	261	350	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
70	105	300	400	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
81	122	373	500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
93	140	410	550	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
105	158	450	600	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
120	180	560	750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
140	210	600	800	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
160	240	750	1000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
185	278	820	1100	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
215	323	933	1250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
250	375	1120	1500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
285	428	1300	1750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
325	488	1500	2000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX
375	563	1865	2500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DC_D-R18TX

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	69	261	350	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
53	80	300	400	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
61	92	335	450	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
70	105	373	500	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
81	122	450	600	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
93	140	522	700	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
105	158	600	800	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
120	180	671	900	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
140	210	750	1000	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
160	240	933	1250	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
185	278	1082	1450	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
215	323	1120	1500	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
250	375	1500	2000	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
285	428	1680	2250	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
325	488	1865	2500	3100	122.0	1000	39.4	2318	91.3	325	12.8	2643	104.1	2637	5814	7000-C DE_D-R18TX
375	563	2240	3000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
46	69	261	350	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
53	80	300	400	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
61	92	335	450	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
70	105	373	500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
81	122	450	600	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
93	140	522	700	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
105	158	600	800	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
120	180	671	900	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
140	210	750	1000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
160	240	933	1250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
185	278	1082	1450	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
215	323	1120	1500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
250	375	1500	2000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
285	428	1680	2250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
325	488	1865	2500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX
375	563	2240	3000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DE_D-R18TX

6.6 kV 50/60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
40	60	400	500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
46	69	410	550	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
53	80	450	600	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
61	92	560	750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
70	105	671	900	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
81	122	750	1000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
93	140	895	1200	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
105	158	933	1250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
120	180	1120	1500	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
140	210	1300	1750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
160	240	1500	2000	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
185	278	1680	2250	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
215	323	2050	2750	3300	129.9	1000	39.4	2318	91.3	325	12.8	2643	104.1	2955	6515	7000-C DJ_D-R18TX
250	375	2240	3000	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-C DJ_D-R18TX
285	428	2600	3500	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-C DJ_D-R18TX
325	488	3000	4000	4200	165.4	1000	39.4	2318	91.3	325	12.8	2643	104.1	4091	9019	7000-C DJ_D-R18TX

PowerFlex 7000 Liquid-cooled Drives

Direct-to-Drive/Normal Duty

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number	
				Width		Depth		Height									
								H1		H2		H					
Cont.	1 Min.	kW	Hp	W		D		mm		in.		mm		in.		kg	lb
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.				
375	413	2240	3000	6200	244.1	1000	39.4	2318	91.3	204	8.0	2522	99.3	8164	17999	7000L-A DE_D-RPDTD	
430	473	2600	3500	6200	244.1	1000	39.4	2318	91.3	204	8.0	2522	99.3	8164	17999	7000L-A DE_D-RPDTD	
495	545	3000	4000	6200	244.1	1000	39.4	2318	91.3	204	8.0	2522	99.3	8164	17999	7000L-A DE_D-RPDTD	
575	633	3360	4500	6800	267.7	1000	39.4	2318	91.3	204	8.0	2522	99.3	8890	19599	7000L-A DE_D-RPDTD	
625	688	3730	5000	6800	267.7	1000	39.4	2318	91.3	204	8.0	2522	99.3	8890	19599	7000L-A DE_D-RPDTD	

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
375	413	2240	3000	6200	6200.0	1000	6200.0	2318	6200.0	204	6200.0	2522	6200.0	8164	17999	7000L-A DE_D-RPDTD
430	473	2600	3500	6200	6200.0	1000	6200.0	2318	6200.0	204	6200.0	2522	6200.0	8164	17999	7000L-A DE_D-RPDTD
495	545	3000	4000	6400	6200.0	1000	6200.0	2318	6200.0	204	6200.0	2522	6200.0	8618	18999	7000L-A DE_D-RPDTD
575	633	3360	4500	6800	6800.0	1000	6800.0	2318	6800.0	204	6800.0	2522	6800.0	8890	19599	7000L-A DE_D-RPDTD

6.6 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
325	358	3000	4000	6700	263.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	9139	20148	7000L-A DJ_D-RPDTD
375	413	3730	5000	6700	263.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	9139	20148	7000L-A DJ_D-RPDTD
430	473	4100	5500	7500	295.3	1051	41.4	2318	91.3	204	8.0	2522	99.3	10936	24110	7000L-A DJ_D-RPDTD
495	545	4850	6500	7700	303.1	1051	41.4	2318	91.3	204	8.0	2522	99.3	11699	25792	7000L-A DJ_D-RPDTD
575	633	5595	7500	8100	318.9	1051	41.4	2318	91.3	204	8.0	2522	99.3	12828	28281	7000L-A DJ_D-RPDTD

6.6kV 50Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
325	358	3000	4000	6700	263.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	9139	20148	7000L-A DJ_D-RPDTD
375	413	3730	5000	6700	263.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	9139	20148	7000L-A DJ_D-RPDTD
430	473	4100	5500	7500	295.3	1051	41.4	2318	91.3	204	8.0	2522	99.3	10936	24110	7000L-A DJ_D-RPDTD
495	545	4850	6500	7700	303.1	1051	41.4	2318	91.3	204	8.0	2522	99.3	11699	25792	7000L-A DJ_D-RPDTD
575	633	5595	7500	8100	318.9	1051	41.4	2318	91.3	204	8.0	2522	99.3	12828	28281	7000L-A DJ_D-RPDTD

18 Pulse - Connection to Separate Transformer/Normal Duty

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
375	413	2240	3000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
430	473	2600	3500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
495	545	3000	4000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
575	633	3360	4500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
625	688	3730	5000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
657	723	3900	5250	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
375	413	2240	3000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
430	473	2600	3500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
495	545	3000	4000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
575	633	3360	4500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
625	688	3730	5000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX
657	723	3900	5250	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DE_D-RP18TX

6.6 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
375	413	3730	5000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DJ_D-RP18TX
430	473	4100	5500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DJ_D-RP18TX
495	545	4850	6500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DJ_D-RP18TX
575	633	5595	7000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DJ_D-RP18TX
625	688	6000	8000	5500	216.5	1000	39.4	2318	91.3	204	8.0	2522	99.3	6818	15031	7000L-A DJ_D-RP18TX
657	723	6340	8500	5500	216.5	1000	39.4	2318	91.3	204	8.0	2522	99.3	6818	15031	7000L-A DJ_D-RP18TX

6.6 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
375	413	3730	5000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DJ_D-RP18TX
430	473	4100	5500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DJ_D-RP18TX
495	545	4850	6500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DJ_D-RP18TX
575	633	5595	7000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-A DJ_D-RP18TX
625	688	6000	8000	5500	216.5	1000	39.4	2318	91.3	204	8.0	2522	99.3	6818	15031	7000L-A DJ_D-RP18TX
657	723	6340	8500	5500	216.5	1000	39.4	2318	91.3	204	8.0	2522	99.3	6818	15031	7000L-A DJ_D-RP18TX

18 Pulse - Connection to Separate Transformer/Heavy Duty

4.16 kV 60 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
								H1		H2		H				
Cont.	1 Min.	kW	Hp	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
375	563	2240	3000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-C DE_D-RP18TX
430	645	2600	3500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-C DE_D-RP18TX

4.16 kV 50 Hz

Output Current [A]		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
375	563	2240	3000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-C DE_D-RP18TX
430	645	2600	3500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-C DE_D-RP18TX

6.6 kV 50/60 Hz

Output Amps		Typical Motor Power Rating		Approx Dimensions										Approx Weight		Base Catalog Number
				Width		Depth		Height								
Cont.	1 Min.	kW	Hp	W		D		H1		H2		H		kg	lb	
				mm	in.	mm	in.	mm	in.	mm	in.	mm	in.			
375	563	3730	5000	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-C DJ_D-RP18TX
430	645	4100	5500	5100	200.8	1000	39.4	2318	91.3	204	8.0	2522	99.3	6363	14028	7000L-C DJ_D-RP18TX

Cable Considerations

A variety of cable types are acceptable for drive installations. Follow applicable local codes to determine power and motor cable conductor size and quantity. For detailed information on cable installation, see the installation instructions for your drive, which are listed in the [Additional Resources on page 55](#).

Power Wiring Considerations

The following recommended field power cabling insulation levels help to enable trouble-free startup and operation. Increase the cable insulation level over that which would be supplied for an across-the-line application with the same rated line-to-line voltage.

Shielded or unshielded cable may be used based on the criteria considered by the distribution system designer and local standards. However, NEC requires shielded cable for installations above 2 kV.

These tables provide cable insulation requirements for the PowerFlex 7000 drives.

Cable Insulation Requirements for AFE and 18-pulse Drives with Isolation Transformer

System Voltage (V_{rms})	Cable Insulation Rating (kV) (Maximum Peak Line-to-Ground)	
	Line Side	Machine Side
2400	≥4.1	≥2.2
3000	≥5.12	≥2.75
3300	≥5.63	≥3.0
4160	≥7.1	≥3.8
6000	≥10.8	≥5.5
6300	≥11.4	≥5.8
6600	≥11.8	≥6.0

Cable Insulation Requirements for Direct-to-Drive Technology

System Voltage (V_{rms})	Cable Insulation Rating (kV) (Maximum Peak Line-to-Ground)	
	Line Side	Machine Side
2400	≥2.2	≥2.2
3000	≥2.75	≥2.75
3300	≥3.0	≥3.0
4160	≥3.8	≥3.8
6000	≥5.5	≥5.5
6300	≥5.8	≥5.8
6600	≥6.0	≥6.0

Motor Cable Sizing

Voltage drop in motor leads may adversely affect motor starting and running performance. Installation and application requirements may dictate that larger wire sizes than indicated in national and local electrical codes are used.

You must select wire sizes individually, observing all applicable safety and national and local electrical codes. The minimum permissible wire size does not necessarily result in the best operating economy. The minimum recommended size for the wires between the drive and the motor is the same as that used if a main voltage source connection to the motor was used. The distance between the drive and motor can affect the size of the conductors used.

Control Signal Wiring Considerations

Use shielded cables for all analog and digital control cables. Steel conduit or a cable tray can be used for all PowerFlex 7000 drive power or control wiring; however, use only steel conduit for all signal wiring.

Steel conduit is required for all control and signal circuits when the drive is installed in European Union countries.

General Wire Categories

Identifies general wire categories that will be encountered when installing the PowerFlex drive.

- Each category has an associated wire group number that is used in the following sections to identify the wire to be used.
- Application and signal examples along with the recommended type of cable for each group are provided.
- A matrix providing the recommended minimum spacing between different wire groups run in the same tray or separate conduit is also provided.
- You must select the wire sizes individually, observing all applicable safety and CEC or IEC/NEC regulations.
- The minimum permissible wire size does not necessarily result in the best operating economy.
- The minimum recommended size for the wires between the drive and the motor is the same as that used if a main voltage source connection to the motor was used.
- The distance between the drive and motor may affect the size of the conductors used.

For Tray: Recommended spacing between different wire groups in the same tray.

For Conduit: Recommended spacing for wire groups in separate conduit – mm (in.).

Wire Group Numbers

Wire Category	Wire Group	Application	Signal Example	Recommended Cables	Wire Group	Power 1	Power 2	Control 3	Control 4	Signal 5	Signal 6		
Power	1	AC Power (>600V AC)	2.3 kV, 3Ø AC Lines	Per IEC/NEC Local Codes and Application Requirements	In Tray	228.6 (9.00)	228.6 (9.00)	228.6 (9.00)	228.6 (9.00)				
					Between Conduit	76.2 (3.00) Between Conduit							
	2	AC Power (TO 600V AC)	480V, 3Ø	Per IEC/NEC Local Codes and Application Requirements	In Tray	228.6 (9.00)	228.6 (9.00)	152.4 (6.00)	152.4 (6.00)				
					Between Conduit	76.2 (3.00) Between Conduit							
Control	3	115V AC or 115V DC Logic	Relay Logic PLC I/O	Per IEC/NEC Local Codes and Application Requirements	In Tray	228.6 (9.00)	152.4 (6.00)	228.6 (9.00)	152.4 (6.00)				
		115V AC Power	Power Supplies Instruments		Between Conduit	76.2 (3.00) Between Conduit							
	4	24V AC or 24V DC Logic	PLC I/O	Per IEC/NEC Local Codes and Application Requirements	In Tray	228.6 (9.00)	152.4 (6.00)	152.4 (6.00)	228.6 (9.00)				
					Between Conduit	76.2 (3.00) Between Conduit							
Signal	5	Analog Signals DC Supplies	5...24V DC Supplies	Belden 8760 ⁽¹⁾ Belden 8770 ⁽²⁾ Belden 9460 ⁽³⁾		• All signal wiring must be run in separate steel conduit. A wire tray is not suitable. • The minimum spacing between conduits containing different wire groups is 76.2 mm (3 in.).							
		Digital (Low Speed)	Power Supplies TTL Logic Level										
	6	Digital (High Speed)	Pulse Train Input Tachometer PLC Communications	Belden 8760 ⁽¹⁾ Belden 9460 ⁽³⁾ Belden 9463 ⁽⁴⁾									

(1) 18 AWG, twisted pair, shielded.

(2) 18 AWG, 3 conductor, shielded.

(3) 18 AWG, twisted pair, shielded.

(4) 24 AWG, twisted pair, shielded.

Note the following when considering cable selection:

- Steel conduit or cable tray may be used for all PowerFlex 7000 drive power or control wiring, and steel conduit is required for all PowerFlex 7000 drive signal wiring. All input and output power wiring, control wiring or conduit should be brought through the drive conduit entry holes of the enclosure. Use appropriate connectors to maintain the environmental rating of the enclosure. The steel conduit is REQUIRED for all control and signal circuits, when the drive is installed in European Union countries. The connection of the conduit to the enclosure shall be on full 360° and the ground bond at the junction shall be less than 0.1 Ω. In EU countries this is a usual practice to install the control and signal wiring.
- Spacing between wire groups is the recommended minimum for parallel runs of 61 m (200 ft) or less.
- The customer is responsible for the grounding of shields. On drives shipped after November 28/02, the shields are removed from the drive boards. On drives shipped prior to November 28/02, all shields are connected at the drive end and these connections must be removed before grounding the shield at the customer end of the cable. Shields for cables from one enclosure to another must be grounded only at the source end cabinet. If splicing of shielded cables is required, the shield must remain continuous and insulated from ground.
- AC and DC circuits must be run in separate conduits or trays.
- Voltage drop in motor leads may adversely affect motor starting and running performance. Installation and application requirements may dictate that larger wire sizes than indicated in IEC/NEC guidelines are used.

Line and Load Cable Sizes

This data is informative only; do not base final design criteria solely on this data. Follow national and local installation codes, industry standard practices, and cable manufacturer recommendations. Because cabling methods can vary widely, maximum cables sizes do not account for the size of the conduit hub.

PowerFlex 'A' Frame

Maximum Line Cable Size

Product			Input (Line Side)			
Voltage/Frequency/Rectifier	Drive Rating [A]	Drive Structure Code	Drive Enclosure Opening [in. (mm)] ⁽¹⁾	No. and Max. Size of Incoming Cables (NEMA) ⁽²⁾ X3X4X5X6	No. and Max. Size of Incoming Cables (IEC) ⁽²⁾ X3X4X5X6	Space for Stress Cones [in. (mm)]
2400V/60 Hz/RPDTD	46...140	71.9 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18.8 (478)
2400V/60 Hz/RPDTD	46...140	71.13, 71.18 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	17.1 (435)
3300V/50 Hz/RPDTD	46...140	71.9 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18.8 (478)
3300V/50 Hz/RPDTD	46...140	71.13, 71.18 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	17.1 (435)
4160V/50 Hz/RPDTD	46...140	71.9 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18.8 (478)
4160V/50 Hz/RPDTD	46...140	71.13, 71.18 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	17.1 (435)
4160V/60 Hz/RPDTD	46...140	71.9 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18-3/8 (467)
4160V/60 Hz/RPDTD	46...140	71.13, 71.18 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	17.1 (435)
6600V/50 Hz/RPDTD	40...93	71.10 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (8 kV or 15 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18.8 (478)
6600V/50 Hz/RPDTD	40...93	71.14, 71.19 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	17.1 (435)
2400V/60 Hz/RPTX	46...160	71.7	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	33.8 (860)
3300V/50 Hz/RPTX	46...160	71.7	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	33.8 (860)
4160/50 Hz/RPTX	46...160	71.7	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	33.8 (860)
4160/60 Hz/RPTX	46...160	71.7	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	33.8 (860)
6600/50 Hz/RPTX	40...105	71.8	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (15 kV)	One 177 mm ² /phase (15 kV)	33.8 (860)
2400V/60 Hz/RPTXI	46...160	71.3	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	20.0 (508) ⁽⁹⁾
3300V/50 Hz/RPTXI	46...160	71.3	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	20.0 (508) ⁽⁹⁾
4160V/50 Hz/RPTXI	46...140	71.3	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	20.0 (508) ⁽⁹⁾
4160V/60 Hz/RPTXI	46...160	71.3	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	20.0 (508) ⁽⁹⁾
6600V/50 Hz/RPTXI	40...105	71.6, 71.15	4.00 x 4.00 (102 x 102)	One #4/0/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	20.0 (508) ⁽⁹⁾

- (1) Some 'A' frame drives have one enclosure opening for both line and load cables. Most 'A' frame drives have separate provisions for line and load cable openings. All cabling capacities that are shown in this table are "worst case" conditions when both line and load cables enter and exit in the same direction.
- (2) Cable sizes are based on overall dimensions of compact-stranded three-conductor shielded cable (common for industrial-cable tray installations). Maximum sizes stated accounts for minimum rated cable insulation requirements. The next higher-rated cable (8 kV is not commercially available in many areas of the world. Rockwell Automation provides an 8 kV (minimum rating) and a 15 kV rating, when applicable. Enclosure openings accommodate the thicker insulation on the higher-rated cable. IEC ratings show the equivalent to the NEMA sizes. The exact cable mm² size that is shown is not commercially available in many cases; use the next smaller standard size.
- (3) Minimum cable bend radius recommendations vary by national codes, cable type, and cable size. Consult local codes for guidelines and requirements. General relationship of cable diameter to bend radius is typically between 7...12x. For example, if the cable diameter is 1 in. [2.54 cm] the minimum bend radius could range between 7...12 in. [18.8...30.48 cm]).
- (4) For minimum requirements for cable insulation, see the user manual for your frame. Stated voltages are peak line-to-ground. Some cable manufacturers rate cabling based on RMS line-to-line.
- (5) Ground lug capabilities: two mechanical range lugs for ground cable connections. Mechanical range lugs can accommodate cable size #6...250MCM (13.3...127 mm²).
- (6) As methods for cabling can vary, the maximum cable sizes that are shown do not account for the size of the conduit hub. Verify size of conduit hubs against the "Drive enclosure openings" shown.
- (7) With starter.
- (8) Without starter.
- (9) Cable enters termination point horizontally in this case; therefore orient space for the stress cones horizontally also.

PowerFlex 'A' Frame

Maximum Load Cable Size

Product			Output (Motor Side)			
Voltage/Frequency/Rectifier	Drive Rating (A)	Drive Structure Code	Drive Enclosure Opening [in. (mm)] ⁽¹⁾	No. and Max. Size of Incoming Cables (NEMA) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾	No. and Max. Size of Incoming Cables (IEC) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾	Space for Stress Cones [in. (mm)]
2400V/60 Hz/RPDTD	46...140	71.9 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18.4 (467)
2400V/60 Hz/RPDTD	46...140	71.13, 71.18 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	16.7 (424)
3300V/50 Hz/RPDTD	46...140	71.9 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18.4 (467)
3300V/50 Hz/RPDTD	46...140	71.13, 71.18 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	16.7 (424)
4160V/50 Hz/RPDTD	46...140	71.9 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18.4 (467)
4160V/50 Hz/RPDTD	46...140	71.13, 71.18 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	16.7 (424)
4160V/60 Hz/RPDTD	46...140	71.9 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	18.4 (467)
4160V/60 Hz/RPDTD	46...140	71.13, 71.18 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (5 kV or 8 kV)	One 107 mm ² /phase (5 kV or 8 kV)	16.7 (424)
6600V/50 Hz/RPDTD	40...93	71.10 ⁽⁷⁾	4.00 x 4.00 (102 x 102)	One #4/0/phase (8 kV or 15 kV)	One 107 mm ² /phase (8 kV or 15 kV)	18.4 (467)
6600V/50 Hz/RPDTD	40...93	71.14, 71.19 ⁽⁸⁾	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	20.6 (524)
2400V/60 Hz/RPTX	46...160	71.7	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	33.8 (860)
3300V/50 Hz/RPTX	46...160	71.7	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	33.8 (860)
4160/50 Hz/RPTX	46...160	71.7	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	33.8 (860)
4160/60 Hz/RPTX	46...160	71.7	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	33.8 (860)
6600/50 Hz/RPTX	40...105	71.8	4.00 x 8.00 (102 x 204) ⁽¹⁾	One 350 MCM/phase (15 kV)	One 177 mm ² /phase (15 kV)	33.8 (860)
2400V/60 Hz/RPTXI	46...160	71.3	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	20.6 (524) ⁽⁹⁾
3300V/50 Hz/RPTXI	46...160	71.3	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	20.6 (524) ⁽⁹⁾
4160V/50 Hz/RPTXI	46...140	71.3	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	20.6 (524) ⁽⁹⁾
4160V/60 Hz/RPTXI	46...160	71.3	4.00 x 4.00 (102 x 102)	One 350 MCM/phase (8 kV or 15 kV)	One 177 mm ² /phase (5 kV or 8 kV)	20.6 (524) ⁽⁹⁾
6600V/50 Hz/RPTXI	40...105	71.6, 71.15	4.00 x 4.00 (102 x 102)	One #4/0/phase (8 kV or 15 kV)	One 177 mm ² /phase (8 kV or 15 kV)	20.6 (524) ⁽⁹⁾

- (1) Some 'A' frame drives have one enclosure opening for both line and load cables. Most 'A' frame drives have separate provisions for line and load cable openings. All cabling capacities that are shown in this table are "worst case" conditions when both line and load cables enter and exit in the same direction.
- (2) Cable sizes are based on overall dimensions of compact-stranded three-conductor shielded cable (common for industrial cable tray installations). Maximum sizing stated accounts for minimum rated cable insulation requirements and the next higher-rated cable. 8 kV is not commercially available in many areas of the world. Rockwell Automation provides an 8 kV (minimum rating) and a 15 kV rating, when applicable. Enclosure openings accommodate the thicker insulation on the higher-rated cable. IEC ratings show the equivalent to the NEMA sizes. The exact cable mm² size that is shown is not commercially available in many cases; use the next smaller standard size.
- (3) Minimum cable bend radius recommendations vary by national codes, cable type, and cable size. Consult local codes for guidelines and requirements. General relationship of cable diameter to bend radius is typically between 7x...12x. For example, if the cable diameter is 1 in. [2.54 cm] the minimum bend radius could range between 7...12 in. [18.8...30.48 cm].
- (4) For minimum requirements for cable insulation, see the user manual for your frame. Stated voltages are peak line-to-ground. Some cable manufacturers rate cabling based on RMS line-to-line.
- (5) Ground lug capabilities: two mechanical range lugs for ground cable connections. Mechanical range lugs can accommodate cable size #6...250 MCM (13.3...127 mm²).
- (6) As methods for cabling can vary widely, maximum cable sizes that are shown do not account for the size of the conduit hub. Verify size of conduit hubs against the "Drive enclosure openings" shown.
- (7) With starter.
- (8) Without starter.
- (9) Cable enters termination point horizontally in this case; therefore orient space for the stress cones horizontally also.

PowerFlex 'B' Frame

Maximum Line Cable Size

Product			Input (Line Side)			
Voltage/Frequency/ Rectifier	Drive Rating (A)	Drive Structure Code	Line Cable Conduit Opening [in. (mm)] ⁽¹⁾	No. and Max. Size of Incoming Cables (NEMA) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	No. and Max. Size of Incoming Cables (IEC) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	Space for Stress Cones [in. (mm)]
2400V/60 Hz/RPDTD	46...375	70.40C, 70.41C, 7.44C ⁽⁸⁾	5.61 x 7.19 (142 x 183)	One 500 MCM/phase (5 kV or 8 kV)	One 253 mm ² /phase (5 kV or 8 kV)	34.4 (874)
3300V/50 Hz/RPDTD	46...430	70.43, 70.44, 70.45, 70.47	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
3300V/50 Hz/RPDTD	E495...E625, G285, G325, N720	70.32	11.81 x 16.22 (300 x 412) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.5 (421)
3300V/50 Hz/RPDTD	46...375	70.43C, 70.44C, 70.45C, 70.47C ⁽⁸⁾	5.61 x 7.19 (142 x 183)	One 500 MCM/phase (5 kV or 8 kV)	One 253 mm ² /phase (5 kV or 8 kV)	34.4 (874)
4160V/50 Hz/RPDTD	46...375	70.43, 70.44, 70.45, 70.47	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
4160V/50 Hz/RPDTD	46...375	70.43C, 70.44C, 70.45C, 70.47C ⁽⁸⁾	5.61 x 7.19 (142 x 183)	One 500 MCM/phase (5 kV or 8 kV)	One 253 mm ² /phase (5 kV or 8 kV)	34.4 (874)
4160V/60 Hz/RPDTD	46...430	70.43, 70.44, 70.45, 70.47	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	28.5 (725)
4160V/60 Hz/RPDTD	E495...E625, G285, G325, N720	70.32	11.81 x 16.22 (300 x 412) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.5 (421)
4160V/60 Hz/RPDTD	46...375	70.43C, 70.44C, 70.45C, 70.47C ⁽⁸⁾	5.61 x 7.19 (142 x 183)	One 500 MCM/phase (5 kV or 8 kV)	One 253 mm ² /phase (8 kV or 15 kV)	34.4 (874)
6600V/50 Hz/RPDTD	40...285	70.46, 70.47, 70.48, 70.49	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	28.5 (725)
6600V/50 Hz/RPDTD	E325...E575, G215, G250, N625, N625	70.34, 70.35	12.79 x 19.68 (325 x 500) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.5 (421)
6600V/50 Hz/RPDTD	40...285	70.46C, 70.47C, 70.49C ⁽⁸⁾	5.61 x 7.19 (142 x 183)	One 500 MCM/phase (8 kV or 15 kV)	One 253 mm ² /phase (8 kV or 15 kV)	34.4 (874)
6600V/60 Hz/RPDTD	40...285	70.46, 70.47, 70.48, 70.49	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
6600V/60 Hz/RPDTD	40...285	70.46C, 70.47C, 70.49C ⁽⁸⁾	5.61 x 7.19 (142 x 183)	One 500 MCM/phase (8 kV or 15 kV)	One 253 mm ² /phase (5 kV or 8 kV)	34.4 (874)
2400V/60 Hz/RPTX	46...430	70.1, 70.2, 70.25, 70.26	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
3300V/50 Hz/RPTX	46...430	70.10, 70.27, 70.28, 70.30	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
3300V/50 Hz/RPTX	E495...E625, G285, G325, N720	70.32	11.81 x 16.22 (300 x 412) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.5 (421)
4160V/50 Hz/RPTX	46...430	70.10, 70.27, 70.29, 70.30	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
4160V/60 Hz/RPTX	46...430	70.2, 70.26, 70.27, 70.28, 70.29, 70.31	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	28.5 (725)
4160V/60 Hz/RPTX	E495...E625, G285, G325, N720	70.32	11.81 x 16.22 (300 x 412) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.5 (421)
6600V/50 Hz/RPTX	40...285	70.11, 70.28, 70.30, 70.31	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 250 MCM/phase (15 kV)	Two 127 mm ² /phase (15 kV)	28.5 (725)
6600V/50 Hz/RPTX	E325...E575, G215, G250, N625	70.36, 70.37	12.79 x 19.68 (325 x 500) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.5 (421)
2400V/60 Hz/RP18TX ⁽⁹⁾	46...430	70.8	9.79 x 21.06 (249 x 535) ⁽¹⁾	Two 500 MCM/secondary winding (5 kV or 8 kV)	Two 253 mm ² /secondary winding (5 kV or 8 kV)	17.7 (449)

Maximum Line Cable Size (Continued)

Product			Input (Line Side)			
Voltage/Frequency/Rectifier	Drive Rating (A)	Drive Structure Code	Line Cable Conduit Opening [in. (mm)] ⁽¹⁾	No. and Max. Size of Incoming Cables (NEMA) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	No. and Max. Size of Incoming Cables (IEC) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	Space for Stress Cones [in. (mm)]
3300V/50 Hz/RP18TX ⁽⁹⁾	46...430	70.9	9.79 x 21.06 (249 x 535) ⁽¹⁾	Two 500 MCM/secondary winding (8 kV or 15 kV)	Two 253 mm ² /secondary winding (8 kV or 15 kV)	17.7 (449)
4160V/50 Hz/RP18TX ⁽⁹⁾	46...430	70.9, 70.18	9.79 x 21.06 (249 x 535) ⁽¹⁾	Two 500 MCM/secondary winding (8 kV or 15 kV)	Two 253 mm ² /secondary winding (8 kV or 15 kV)	17.7 (449)
4160V/60 Hz/RP18TX ⁽⁹⁾	46...430	70.8, 70.9	9.79 x 21.06 (249 x 535) ⁽¹⁾	Two 500 MCM/secondary winding (8 kV or 15 kV)	Two 253 mm ² /secondary winding (8 kV or 15 kV)	17.7 (449)
6600V/50 Hz/RP18TX ⁽⁹⁾	40...215	70.9	9.79 x 21.06 (249 x 535) ⁽¹⁾	Two 350 MCM/secondary winding (15 kV)	Two 177 mm ² /secondary winding (15 kV)	17.7 (449)
6600V/50 Hz/RP18TX ⁽⁹⁾	250...430	70.18	9.79 x 21.06 (249 x 535) ⁽¹⁾	Two 350 MCM/secondary winding (15 kV)	Two 177 mm ² /secondary winding (15 kV)	17.7 (449)
6600V/60 Hz/RP18TX ⁽⁹⁾	40...215	70.9	9.79 x 21.06 (249 x 535) ⁽¹⁾	Two 350 MCM/secondary winding (15 kV)	Two 177 mm ² /secondary winding (15 kV)	17.7 (449)
6600V/60 Hz/RP18TX ⁽⁹⁾	250...430	70.18	9.79 x 21.06 (249 x 535) ⁽¹⁾	Two 350 MCM/secondary winding (15 kV)	Two 177 mm ² /secondary winding (15 kV)	17.7 (449)

- (1) Most PowerFlex 'B' frame drives have a single enclosure opening provision for both line and load cables. Most 'B' frames have separate opening provisions for line and load cables. All cabling capacities that are shown in this table are "worst case" conditions when both line and load cabling enters and exits in the same direction.
- (2) Cable sizes are based on overall dimensions of compact-stranded three-conductor shielded cable (common for industrial cable tray installations). Maximum sizing stated accounts for minimum rated cable insulation requirements and the next higher-rated cable (for example, 8 kV is not commercially available in many areas of the world, therefore Rockwell Automation provides an 8 kV (minimum rating) as well as a 15 kV rating, when applicable. Enclosure openings will accommodate the thicker insulation on the higher-rated cable. IEC ratings show the equivalent to the NEMA sizes. The exact cable mm² size shown is not commercially available in many cases; use the next smaller standard size.
- (3) Minimum cable bend radius recommendations vary by national codes, cable type, and cable size. Consult local codes for guidelines and requirements. General relationship of cable diameter to bend radius is typically between 7...12x (for example, if the cable diameter is 1 in. [2.54 cm] the minimum bend radius could range between 7...12 in. [18.8...30.48 cm]).
- (4) For minimum cable insulation requirements, see the PowerFlex 7000 user manual for your particular frame. Stated voltages are peak line-to-ground. Some cable manufacturers rate cabling based on RMS line-to-line.
- (5) Ground lug capabilities: up to ten mechanical range lugs for ground cable connections are available, typically these frames supply four. Mechanical range lugs can accommodate cable size #6...250MCM (13.3...127 mm²).
- (6) Maximum cable size for 'B' Frame (two per phase) is 500 MCM (253 mm²), limited by lug pad assembly size and clearance requirements.
- (7) As cabling methods can vary widely, maximum cable sizes shown do not account for the size of the conduit hub. Verify size of conduit hub(s) against the line cable conduit openings shown.
- (8) With a close-coupled starter.
- (9) 18-pulse drives have nine line-side connections (from the secondary windings of the isolation transformer) which enter the drive. Lug pads are provided for each connection. The lug pad and enclosure opening can generally accommodate two cables per connection (18 cables total).

PowerFlex 'B' Frame

Maximum Load Cable Size

Product			Output (Motor Side)			
Voltage/Frequency/ Rectifier	Drive Rating (A)	Drive Structure Code	Load Cable Conduit Opening [in. (mm)] ⁽¹⁾	No. and Max. Size of Outgoing Cables (NEMA) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	No. and Max. Size of Outgoing Cables (IEC) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	Space for Stress Cones [in. (mm)]
2400V/60 Hz/RPDTD	46...430	70.40, 70.41, 70.44, 70.45	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
2400V/60 Hz/RPDTD	46...375	70.40C, 70.41C, 7.44C ⁽⁸⁾	6.52 x 9.88 (168 x 251)	One 500 MCM/phase (5 kV) or Two 250 MCM/phase (5 kV or 8 kV)	One 253 mm ² /phase (5 kV or 8 kV) or Two 127 mm ² /phase (5 kV or 8 kV)	16.2 (411)
3300V/50 Hz/RPDTD	46...430	70.43, 70.44, 70.45, 70.47	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
3300V/50 Hz/RPDTD	E495...E625, G285, G325, N720	70.32	11.81 x 16.22 (300 x 412) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.5 (421)
3300V/50 Hz/RPDTD	46...375	70.43C, 70.44C, 70.45C, 70.47C ⁽⁸⁾	6.52 x 9.88 (168 x 251)	One 500 MCM/phase (5 kV) or Two 250 MCM/phase (5 kV or 8 kV)	One 253 mm ² /phase (5 kV or 8 kV) or Two 127 mm ² /phase (5 kV or 8 kV)	16.2 (411)
4160V/50 Hz/RPDTD	46...375	70.43, 70.44, 70.45, 70.47	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
4160V/50 Hz/RPDTD	46...375	70.43C, 70.44C, 70.45C, 70.47C ⁽⁸⁾	6.52 x 9.88 (168 x 251)	One 500 MCM/phase (5 kV) or Two 250 MCM/phase (5 kV or 8 kV)	One 253 mm ² /phase (5 kV or 8 kV) or Two 127 mm ² /phase (5 kV or 8 kV)	16.2 (411)
4160V/60 Hz/RPDTD	46...430	70.43, 70.44, 70.45, 70.47	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
4160V/60 Hz/RPDTD	E495...E625, G285, G325, N720	70.32	11.81 x 16.22 (300 x 412) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.5 (421)
4160V/60 Hz/RPDTD	46...375	70.43C, 70.44C, 70.45C, 70.47C ⁽⁸⁾	6.52 x 9.88 (168 x 251)	One 500 MCM/phase (5 kV) or Two 250 MCM/phase (5 kV or 8 kV)	One 253 mm ² /phase (5 kV or 8 kV) or Two 127 mm ² /phase (5 kV or 8 kV)	16.2 (411)
6600V/50 Hz/RPDTD	40...285	70.46, 70.47, 70.48, 70.49	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
6600V/50 Hz/RPDTD	40...285	70.46C, 70.47C, 70.49C ⁽⁸⁾	6.52 x 9.88 (168 x 251)	One 500 MCM/phase (5 kV) or Two 250 MCM/phase (8 kV or 15 kV)	One 253 mm ² /phase (8 kV or 15 kV) or Two 127 mm ² /phase (8 kV or 15 kV)	16.2 (411)
6600V/50 Hz/RPDTD	E325...E575, G215, G250, N625, N625	70.34, 70.35	12.79 x 19.68 (325 x 500) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.5 (421)
6600V/60 Hz/RPDTD	40...285	70.46, 70.47, 70.48, 70.49	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
6600V/60 Hz/RPDTD	40...285	70.46C, 70.47C, 70.49C ⁽⁸⁾	6.52 x 9.88 (168 x 251)	One 500 MCM/phase (5 kV) or Two 250 MCM/phase (8 kV or 15 kV)	One 253 mm ² /phase (8 kV or 15 kV) or Two 127 mm ² /phase (8 kV or 15 kV)	16.2 (411)
2400V/60 Hz/RPTX	46...430	70.1, 70.2, 70.25, 70.26	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
3300V/50 Hz/RPTX	46...430	70.10, 70.27, 70.28, 70.30	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
3300V/50 Hz/RPTX	E495...E625, G285, G325, N720	70.32	11.81 x 16.22 (300 x 412) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.5 (421)
4160V/50 Hz/RPTX	46...430	70.10, 70.27, 70.29, 70.30	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
4160V/60 Hz/RPTX	46...430	70.2, 70.26, 70.27, 70.28, 70.29, 70.31	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	28.5 (725)
4160V/60 Hz/RPTX	E495...E625, G285, G325, N720	70.32	11.81 x 16.22 (300 x 412) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.5 (421)
6600V/50Hz/RPTX	40...285	70.11, 70.28, 70.30, 70.31	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	28.5 (725)

Maximum Load Cable Size

Product			Output (Motor Side)			
Voltage/Frequency/ Rectifier	Drive Rating (A)	Drive Structure Code	Load Cable Conduit Opening [in. (mm)] ⁽¹⁾	No. and Max. Size of Outgoing Cables (NEMA) ⁽²⁾ (3)(4)(5)(6)(7)	No. and Max. Size of Outgoing Cables (IEC) ⁽²⁾ (3)(4)(5)(6)(7)	Space for Stress Cones [in. (mm)]
6600V/50 Hz/RPTX	E325...E575, G215, G250, N625	70.36, 70.37	12.79 x 19.68 (325 x 500) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.5 (421)
2400V/60Hz/RP18TX ⁽⁹⁾	46...430	70.8	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.4 (415)
3300V/50Hz/RP18TX ⁽⁹⁾	46...430	70.9	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.4 (415)
4160V/50Hz/RP18TX ⁽⁹⁾	46...430	70.9, 70.18	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.4 (415)
4160V/60Hz/RP18TX ⁽⁹⁾	46...430	70.8, 70.9	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.4 (415)
6600V/50Hz/RP18TX ⁽⁹⁾	40...215	70.9	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.4 (415)
6600V/50Hz/RP18TX ⁽⁹⁾	250...430	70.18	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.4 (415)
6600V/60Hz/RP18TX ⁽⁹⁾	40...215	70.9	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.4 (415)
6600V/60Hz/RP18TX ⁽⁹⁾	250...430	70.18	9.79 x 10.97 (249 x 279) ⁽¹⁾	Two 500 MCM/phase (8 kV or 15 kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.4 (415)

- (1) Most PowerFlex 'B' frame drives have a single enclosure opening provision for both line and load cables. Most 'B' frames have separate opening provisions for line and load cables. All cabling capacities that are shown in this table are "worst case" conditions when both line and load cabling enters and exits in the same direction.
- (2) Cable sizes are based on overall dimensions of compact-stranded three-conductor shielded cable (common for industrial cable tray installations). Maximum sizing stated accounts for minimum rated cable insulation requirements and the next higher-rated cable (for example, 8 kV is not commercially available in many areas of the world, therefore Rockwell Automation provides an 8 kV (minimum rating) as well as a 15 kV rating, when applicable. Enclosure openings will accommodate the thicker insulation on the higher-rated cable. IEC ratings show the equivalent to the NEMA sizes. The exact cable mm² size shown is not commercially available in many cases; use the next smaller standard size.
- (3) Minimum cable bend radius recommendations vary by national codes, cable type, and cable size. Consult local codes for guidelines and requirements. General relationship of cable diameter to bend radius is typically between 7...12x (for example, if the cable diameter is 1 in. [2.54 cm] the minimum bend radius could range between 7...12 in. [18.8...30.48 cm]).
- (4) For minimum cable insulation requirements, see the PowerFlex 7000 user manual for your particular frame. Stated voltages are peak line-to-ground. Some cable manufacturers rate cabling based on RMS line-to-line.
- (5) Ground lug capabilities: up to ten mechanical range lugs for ground cable connections are available, typically these frames supply four. Mechanical range lugs can accommodate cable size #6...250MCM (13.3...127 mm²).
- (6) Maximum cable size for 'B' Frame (two per phase) is 500 MCM (253 mm²), limited by lug pad assembly size and clearance requirements.
- (7) As cabling methods can vary widely, maximum cable sizes shown do not account for the size of the conduit hub. Verify size of conduit hub(s) against the load cable conduit openings shown.
- (8) With a close-coupled starter.
- (9) 18-pulse drives have nine line-side connections (from the secondary windings of the isolation transformer) which enter the drive. Lug pads are provided for each connection. The lug pad and enclosure opening can generally accommodate two cables per connection (18 cables total).

PowerFlex 'C' Frame

Maximum Line Cable Sizes

Product			Input (Line Side)			
Voltage/Frequency/ Rectifier	Drive Rating (A)	Drive Structure Code	Line Cable Conduit Opening [in. (mm)] ⁽¹⁾	Max. Size and No. of Incoming Cables (NEMA) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	Max. Size and No. of Incoming Cables (IEC) ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	Space for Stress Cones [in. (mm)]
4160V/50 Hz/RPDTD	375...575	70.71 (L-A), 70.72 (L-L), 70.76 (L-A) 70.77 (L-L), 70.89 (L-A), 70.94 (L-L)	11.22 x 23.62 (285 x 600)	Four 500 MCM/phase (5 kV or 8 kV)	Four 253 mm ² /phase (5 kV or 8 kV)	18.0 (457)
4160V/60 Hz/RPDTD	375...625	70.71 (L-A), 70.72 (L-L), 70.76 (L-A), 70.77 (L-L)	11.22 x 23.62 (285 x 600)	Four 500 MCM/phase (5 kV or 8 kV)	Four 253 mm ² /phase (5 kV or 8 kV)	18.0 (457)
6600V/50 Hz/RPDTD	325...575	70.80 (L-A), 70.85 (L-L), 70.86 (L-L), 70.87 (L-L), 70.88 (L-L), 70.91 (L-A), 70.92 (L-A)	11.22 x 23.62 (285 x 600)	Four 500 MCM/phase (8 kV or 15kV)	Four 253 mm ² /phase (8 kV or 15 kV)	18.0 (457)
6600V/60 Hz/RPDTD	325...575	70.80 (L-A), 70.85 (L-L), 70.86 (L-L), 70.87 (L-L), 70.88 (L-L), 70.91 (L-A), 70.92 (L-A), 70.93 (L-A)	11.22 x 23.62 (285 x 600)	Four 500 MCM/phase (8 kV or 15kV)	Four 253 mm ² /phase (8 kV or 15 kV)	18.0 (457)
4160V/50 Hz/R18TX ⁽⁸⁾	375...657	70.50 (L-A), 70.55 (L-L)	9.79 x 21.06 (249 x 535)	Two 500 MCM/secondary winding (8 kV or 15 kV)	Two 253 mm ² / secondary winding (8 kV or 15 kV)	17.7 (449)
4160V/60 Hz/R18TX ⁽⁸⁾	375...657	70.50 (L-A), 70.55 (L-L)	9.79 x 21.06 (249 x 535)	Two 500 MCM/secondary winding (8 kV or 15 kV)	Two 253 mm ² / secondary winding (8 kV or 15 kV)	17.7 (449)
6600V/50 Hz/R18TX ⁽⁸⁾	375...657	70.50 (L-A), 70.53 (L-A), 70.55 (L- L), 70.58 (L-L)	9.79 x 21.06 (249 x 535)	Two 350 MCM/secondary winding (15 kV)	Two 177 mm ² / secondary winding (15 kV)	17.7 (449)
6600V/60 Hz/R18TX ⁽⁸⁾	375...657	70.50 (L-A), 70.53 (L-A), 70.55 (L- L), 70.58 (L-L)	9.79 x 21.06 (249 x 535)	Two 350 MCM/secondary winding (15 kV)	Two 177 mm ² / secondary winding (15 kV)	17.7 (449)

- (1) All 'C' frame drives have a single enclosure opening provision for both line and load cables. All cabling capacities that are shown are for "worst case" condition when both line and load cabling enters and exits the same direction.
- (2) Cable sizes are based on overall dimensions of compact-stranded three-conductor shielded cable (typical industrial cable used for cable tray installations). Maximum sizing stated accounts for minimum rated cable insulation requirements and the next higher rated cable, i.e. 8 kV is not commercially available in many areas of the world, therefore an 8 kV (minimum rating) as well as a 15 kV rating is given, when applicable. Enclosure openings will accommodate the thicker insulation on the higher rated cable. IEC ratings show the equivalent to the NEMA sizes. The exact cable mm² size stated is not commercially available in many cases; use the next smaller standard size.
- (3) Minimum cable bend radius recommendations vary by national codes, cable type, and cable size. Consult local codes for guidelines and requirements. General relationship of cable diameter to bend radius is typically between 7...12x (for example, if the cable diameter is 1 in. [2.54 cm] the minimum bend radius could range between 7...12 in. [18.8...30.48 cm]).
- (4) For minimum cable insulation requirements, see the PowerFlex 7000 user manual for your particular frame. Stated voltages are peak line-to-ground. Some cable manufacturers rate cabling based on RMS line-to-line.
- (5) Ground lug capabilities: up to ten mechanical range lugs for ground cable connections can be provided. Four mechanical range lugs for ground cable connections are typically supplied. Mechanical range lugs can accommodate cable sizes of #6...250 MCM (13.3...127 mm²).
- (6) Maximum cable size 'C' Frame (four per phase) is 500 MCM (253 mm²). Limited by lug pad assembly size and clearance requirements.
- (7) As cabling methods can vary widely, maximum cable sizes shown do not account for the size of a conduit hub. Verify size of conduit hub(s) against the "Drive Enclosure Openings" shown.
- (8) 18 pulse drives (R18TX) have nine line-side connections (from the secondary windings of the isolation transformer) entering the VFD. Lug pads are provided for each connection. The lug pad and enclosure opening can generally accommodate two cables per connection (18 cables total).

PowerFlex 'C' Frame

Maximum Load Cable Sizes

Product			Output (Motor Side)			
Voltage/Frequency/ Rectifier	Drive Rating (A)	Drive Structure Code	Load Cable Conduit Opening [in. (mm)] ⁽¹⁾	Max. Size and No. of Incoming Cables (NEMA) ⁽²⁾ (3)(4)(5)(6)(7)	Max. Size and No. of Incoming Cables (IEC) ⁽²⁾ (3)(4)(5)(6)(7)	Space for Stress Cones [in. (mm)]
4160V/50 Hz/RPDTD	375...575	70.71 (L-A), 70.72 (L-L), 70.76 (L-A) 70.77 (L-L), 70.89 (L-A), 70.94 (L-L)	11.22 x 23.62 (285 x 600)	Four 500 MCM/phase (5 kV or 8 kV)	Four 253 mm ² /phase (5 kV or 8 kV)	16.4 (415)
4160V/60 Hz/RPDTD	375...625	70.71 (L-A), 70.72 (L-L), 70.76 (L-A) 70.77 (L-L)	11.22 x 23.62 (285 x 600)	Four 500 MCM/phase (5 kV or 8 kV)	Four 253 mm ² /phase (5 kV or 8 kV)	16.4 (415)
6600V/50 Hz/RPDTD	325...575	70.80 (L-A), 70.85 (L-L), 70.86 (L-L), 70.87 (L-L), 70.88 (L-L), 70.91 (L-A), 70.91 (L-A), 70.92 (L-A)	11.22 x 23.62 (285 x 600)	Four 500 MCM/phase (8 kV or 15kV)	Four 253 mm ² /phase (8 kV or 15 kV)	16.4 (415)
6600V/60 Hz/RPDTD	325...575	70.80 (L-A), 70.85 (L-L), 70.86 (L-L), 70.87 (L-L), 70.88 (L-L), 70.91 (L-A), 70.92 (L-A), 70.93 (L-A)	11.22 x 23.62 (285 x 600)	Four 500 MCM/phase (8 kV or 15kV)	Four 253 mm ² /phase (8 kV or 15 kV)	16.4 (415)
4160V/50 Hz/R18TX ⁽⁸⁾	375...657	70.50 (L-A), 70.55 (L-L)	9.79 x 21.06 (249 x 535)	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.4 (415)
4160V/60 Hz/R18TX	375...657	70.50 (L-A), 70.55 (L-L)	9.79 x 21.06 (249 x 535)	Two 500 MCM/phase (5 kV or 8 kV)	Two 253 mm ² /phase (5 kV or 8 kV)	16.4 (415)
6600V/50 Hz/R18TX	375...657	70.50 (L-A), 70.53 (L-A), 70.55 (L-L), 70.58 (L-L)	9.79 x 21.06 (249 x 535)	Two 500 MCM/phase (8 kV or 15kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.4 (415)
6600V/60 Hz/R18TX	375...657	70.50 (L-A), 70.53 (L-A), 70.55 (L-L), 70.58 (L-L)	9.79 x 21.06 (249 x 535)	Two 500 MCM/phase (8 kV or 15kV)	Two 253 mm ² /phase (8 kV or 15 kV)	16.4 (415)

- (1) All 'C' frame drives have a single enclosure opening provision for both line and load cables. All cabling capacities that are shown are for "worst case" condition when both line and load cabling enters and exits the same direction.
- (2) Cable sizes are based on overall dimensions of compact-stranded three-conductor shielded cable (typical industrial cable used for cable tray installations). Maximum sizing stated accounts for minimum rated cable insulation requirements and the next higher rated cable, i.e. 8 kV is not commercially available in many areas of the world, therefore an 8 kV (minimum rating) as well as a 15 kV rating is given, when applicable. Enclosure openings will accommodate the thicker insulation on the higher rated cable. IEC ratings show the equivalent to the NEMA sizes. The exact cable mm² size stated is not commercially available in many cases; use the next smaller standard size.
- (3) Minimum cable bend radius recommendations vary by national codes, cable type, and cable size. Consult local codes for guidelines and requirements. General relationship of cable diameter to bend radius is typically between 7...12x (for example, if the cable diameter is 1 in. [2.54 cm] the minimum bend radius could range between 7...12 in. [18.8...30.48 cm]).
- (4) For minimum cable insulation requirements, see the PowerFlex 7000 user manual for your particular frame. Stated voltages are peak line-to-ground. Some cable manufacturers rate cabling based on RMS line-to-line.
- (5) Ground lug capabilities: up to ten mechanical range lugs for ground cable connections can be provided. Four mechanical range lugs for ground cable connections are typically supplied. Mechanical range lugs can accommodate cable sizes of #6...250 MCM (13.3...127 mm²).
- (6) Maximum cable size 'C' Frame (four per phase) is 500 MCM (253 mm²). Limited by lug pad assembly size and clearance requirements.
- (7) Because cabling methods can vary widely, maximum cable sizes shown do not account for the size of a conduit hub. Verify size of conduit hub(s) against the "Drive Enclosure Openings" shown.
- (8) 18 pulse drives (R18TX) have nine line-side connections (from the secondary windings of the isolation transformer) entering the VFD. Lug pads are provided for each connection. The lug pad and enclosure opening can generally accommodate two cables per connection (18 cables total).

Encoder Selection

An encoder is required under any of the following conditions:

- When speed regulation accuracy must be between 0.01...0.02% of nominal speed.
- When the zero-speed breakaway torque needed is greater than 90% of continuous running torque.
- When continuous running speed is greater than or equal to 0.1 Hz, but less than 6 Hz.
- For minimizing restart times using the flying start capability in forward or reverse direction.
- At any time when HPTC is enabled.

PowerFlex Speed Regulation

Encoder	Frequency Output		
	<6 Hz	6...15 Hz	>15 Hz
Without Encoder	—	0.1%	0.1%
With Encoder	0.02%	0.01%	0.01%
With Encoder and HPTC mode enabled	0.01%	0.01%	0.01%

Notes:

- Speed regulation is based on a percentage of motor synchronous speed
- Encoder to be mounted on the AC machine
- Operational 15V DC power supply mounted in drive to power the Encoder as a standard option with the encoder feedback card
- You are responsible for providing and mounting the encoder
- Sleeve bearing motors require the encoder to have an axial movement tolerance
- Recommended encoders are shaft mounting type, examples are the Avtron 685 or the NexGen RIM Tach 8500, 12...15V models or equivalent. Magneto resistive models are more adaptable to harsh environments
- If possible, use encoders without Marker, Index, Z, or sig. C signals, as these are not used on the PowerFlex 7000 drive
- When installing, the encoder body and electronics must be isolated from ground (options available from the encoder manufacturer)
- When cable lengths exceed 305 m (1000 ft) for the Northstar tachometer or 610 m (2000 ft) for the Avtron tachometer, consult your local sales office or distributor

Encoder Selection

HPTC Mode	Motor RPM	Minimum Tach PPR	Recommended Tach PPR
	3600	1024	1024
	3000	1024	1024
	1800	1024	2048
	1500	1024	2048
	1200	2048	2048
	1000	2048	2048
	900	2048	4096
	720	4096	4096
	600	4096	4096
	450	4096	8192
	360	8192	8192
	300	8192	8192

Encoder Selection

Standard Control Mode	3600	—	600
	3000	—	600
	1800	—	1024
	1500	—	1024
	1200	—	2048
	1000	—	2048
	900	—	2048
	720	—	2048
	600	—	2048

Drive Torque Capabilities

PowerFlex 7000 drives are tested on a dynamometer to verify performance under locked rotor, accelerating, and low speed-high torque conditions. The following table shows the drive torque capabilities as a percent of motor rated torque, independent of the momentary overload conditions of the drive.

PowerFlex 7000 Drive Torque Capabilities

Parameter	Torque Capability without Encoder (% of Motor Rated Torque)	Torque Capability with Encoder (% of Motor Rated Torque)	Torque Capability with Encoder and HPTC
Breakaway Torque	90%	150%	150%
Accelerating Torque	90% (0...8 Hz)	140% (0...8 Hz)	150% (0...75 Hz)
	125% (9...75 Hz)	140% (9...75 Hz)	
Steady State Torque	125% (9...75 Hz) ⁽¹⁾	100% (1...2 Hz)	150% (0...60 Hz) ⁽¹⁾
		140% (3...60 Hz) ⁽¹⁾	
Maximum Torque Limit	150%	150%	150%

(1) Drive will require over-sizing to achieve greater than 100% continuous torque.

Definitions

Parameter Definitions

Parameter	Description
Breakaway Torque	Torque required to start a machine from standstill.
Accelerating Torque	Torque required to accelerate a load to a given speed, in a certain period of time. The following formula may be used to calculate the average torque to accelerate a known inertia (Wk^2): $T = (Wk^2 \times \text{change in RPM}) / 308t$, where • T = acceleration torque in (lb•ft) • Wk^2 = total system inertia (lb•ft²) that the motor must accelerate, including motor, gear box, and load • t = time (seconds) to accelerate total system load
Steady State Torque	Continuous operating torque required to control the load, without instability.
Max. Torque Limit	An electronic method of limiting the maximum torque available from the motor. The software in a drive typically sets the torque limit to 150% of motor rated torque.

Full Load Currents

This table is FOR REFERENCE ONLY. The full load currents listed below are 'average values' that should be used only as a guide for selecting appropriate components for the Motor Branch Circuit. The rated full load current, shown on the motor nameplate, may vary considerably from the list value depending on the specific motor design.

IMPORTANT The motor nameplate full load current should always be used in determining the rating of the devices used for Motor Running Overcurrent Protection.

Full-load Currents of 3-phase, 50/60 Hz Medium Voltage AC Induction Motors

kW Rating	Hp Rating	Full Load Current at 1800 RPM (A)							
		2300V	3300V	4000V	4600V	6000V	6300V	6600V	6900V
75	100	23	16	13	11	9	8	8	8
95	125	29	20	16	14	11	10	10	10
110	150	34	24	20	17	13	13	12	11
130	175	40	28	23	20	15	15	14	13
150	200	46	32	26	23	18	17	16	15
170	225	52	36	30	26	20	19	18	17
187	250	57	40	33	29	22	21	20	19
225	300	68	48	39	34	26	25	24	23
260	350	80	56	46	40	31	29	28	27
300	400	91	64	52	46	35	33	32	30
335	450	103	72	59	51	39	38	36	34
373	500	113	79	65	57	43	41	39	38
450	600	134	94	77	67	52	49	47	45
522	700	158	110	91	79	60	58	55	53
560	750	169	118	97	85	65	62	59	56
600	800	177	124	102	89	68	65	62	59
670	900	202	141	116	101	77	74	70	67
750	1000	216	151	124	108	83	79	75	72
933	1250	273	190	157	137	105	100	95	91
1120	1500	326	227	188	163	125	119	114	109
1300	1750	376	262	216	188	144	137	131	125
1500	2000	434	303	250	217	166	159	151	145
1680	2250	485	338	279	242	186	177	169	162
1865	2500	537	375	309	269	206	196	187	179
2050	2750	591	412	340	296	227	216	206	197
2240	3000	647	451	372	324	248	236	226	216
2600	3500	750	523	431	375	288	274	261	250
3000	4000	857	597	493	429	329	313	299	286
3360	4500	964	672	554	482	370	352	336	321
3730	5000	1071	747	616	536	411	391	373	357
4100	5500	1179	821	678	589	452	430	411	393
4475	6000	1286	896	739	643	493	469	448	429
5225	7000	1500	1046	863	750	575	548	523	500
6000	8000	1714	1195	986	857	657	626	597	571
6720	9000	1929	1344	1109	964	739	704	672	643
7500	10,000	2143	1494	1232	1071	821	782	747	714

Drive Options

The following tables show typically selected options for PowerFlex 7000 drives (position 'g' in the [Catalog Number Explanation on page 3](#)).

HIMs

Description	Option Number
Remote-mounted HMI/Ethernet switch in VFD with external cable port	14PVKRC
Remote-mounted HMI/Ethernet switch in VFD with external fiber optic port	14PVKRF
Locally-mounted HMI/Ethernet switch in VFD with external cable port	14PVKLC
Locally-mounted HMI/Ethernet switch in VFD with external fiber optic port	14PVKLF
No HMI supplied (provisions for using laptop as HMI)/Ethernet switch in VFD with external cable port	14NOTERC
No HMI supplied (provisions for using laptop as HMI)/Ethernet switch in VFD with external fiber optic port	14NOTERF

Door-mounted Operator Interface Devices

Description	Option Number
Red Emergency Stop (Push-Pull) Push Button and Safety Relay ⁽¹⁾⁽²⁾	-1EDSTP
Green Start Push Button ⁽¹⁾⁽²⁾	-1STR
Red Stop Push Button ⁽¹⁾⁽²⁾	-1STP
Forward-Reverse Selector Switch ⁽²⁾	-3FF
Local-Remote Selector Switch ⁽¹⁾⁽²⁾	-3LL
Forward Pilot Light ⁽³⁾	-4FOR_
Reverse Pilot Light ⁽³⁾	-4REV_
Drive Ready Pilot Light ⁽³⁾⁽⁴⁾	-4DRY_
Drive Running Pilot Light ⁽³⁾⁽⁴⁾	-4DRN_
Fault Pilot Light ⁽³⁾⁽⁴⁾	-4FLT_
Warning Pilot Light ⁽³⁾⁽⁴⁾	-WRN_
OFF Pilot Light ⁽³⁾⁽⁵⁾	-4OFF_ or -5OFF_
ON Pilot Light ⁽³⁾⁽⁵⁾	-4ON_ or -5ON_
Black JOG Push Button ⁽²⁾	-1JOG
Speed Control Potentiometer	-760A

(1) These operator interface control options are typically selected together.

(2) Located on LV compartment door.

(3) To specify pilot light lens color, add the letter to the option number: A = Amber, B = Blue, C = Clear, G = Green, R = Red, W = White. For example, 4DRNR is a RED "DRIVE RUNNING" pilot light. Legend plates may be supplied in English, French, Spanish, Russian, German, Portuguese, or other languages as required.

(4) These pilot light options are typically selected together.

(5) Available only for PowerFlex 'A' frame Direct-to-Drive configuration with integral contactor. When -4OFF_ is selected, option -4ON_ is required. When -5OFF_ is selected, option -5ON_ is required.

Isolated Analog Signal Interface⁽¹⁾

Description	Option Number
Input Speed Reference (4...20 mA Input Signal)	-14TS1
Output Speed Reference (4...20 mA Output Signal)	-14TS2
Output Voltage Reference (4...20 mA Input Signal)	-14TS3
Output Current Reference (4...20 mA Input Signal)	-14TS4
Output Load (kW) Reference (4...20 mA Input Signal)	-14TS5
Output Torque Reference (4...20 mA Input Signal)	-14TS6

(1) A maximum of 4 isolated outputs allowed.

Redundancy Options

Description	Option Number
Redundant Fan	-14RF ⁽¹⁾
Redundant Power Supply	-14PS

(1) Redundant Fan (14RF) and Exhaust Ducting (14RD) options are mutually exclusive for PowerFlex 7000 and 7000A drives.

Communication Adapter Modules⁽¹⁾

Description	Option Number
ControlLogix Controller to ControlNet Network	-13CLXC ⁽²⁾
ControlLogix Controller to DeviceNet Network	-13CLXD ⁽²⁾
ControlLogix Controller to EtherNet Network	-13CLXE ⁽²⁾
ControlLogix Controller to Modbus Network	-13CLXH ⁽²⁾
ControlLogix Controller to Modbus TCP/IP Network	-13CLXM ⁽²⁾
ControlLogix Controller to PROFIBUS Network	-13CLXP ⁽²⁾
ControlLogix Controller to Remote I/O or DH+ Network	-13CLXR ⁽²⁾
DPI™ to Dual EtherNet/IP	-13COMMER
DPI to PROFIBUS (RS-485)	-13COMMP
DPI to Modbus RTU (RS-485) Network	-13COMMH
DPI to Modbus TCP (RJ45)	-13COMMM
DPI to INTERBUS	-13COMMI
DPI to CANopen	-13COMMK
DPI to RS-485 (with DF1 protocol)	-13COMMS
DPI to EtherNet/IP Network	-13COMME
DPI to ControlNet	-13COMMC
DPI to DeviceNet	-13COMMD
9300-RADES modem connected to drive Ethernet/IP DPI adapter	-13MOD

(1) Up to two 13COMM_ options can be selected. The second selection is limited to 13COMMD, 13COMME, 13COMMK, or 13COMMM.

(2) Available when a ControlLogix controller is supplied in the VFD system and it interfaces to your control system via a network.

Drive System Configuration⁽¹⁾

Description		Option Number
Synchronous Transfer System	1 motor	-24AST
	2 motors	-24BST
	3 motors	-24CST
	4 motors	-24DST
	5 motors	-24EST
	6 motors	-24FST
Isolated bypass control circuit (no synchronization) with DRIVE-OFF-BYPASS keylock selector switch		-24AMB
Output contactor control circuit		-24AOP

(1) See [Drive Control Circuit Features on page 53](#) for operator interfaces featured with these options.

Heat Exchangers⁽¹⁾

Description	Option Number
Liquid-to-air heat exchanger	-31LA
Liquid-to-liquid heat exchanger	-31LL

(1) Customer is responsible for any primary water supply, flow meters, valves, and so on. Liquid-to-Liquid heat exchanger is rated for freshwater supply. Contact your local sales or distributor for additional options.

Miscellaneous

Description	Option Number
Provision for Ducting Exhaust Air	-14RD ⁽¹⁾
Optional UPS (internal) to supply 0...10 s power loss auto-restart	-14RT2
User-supplied UPS to supply 0...10 s power loss auto-restart	-14RT3
Tachometer Interface	-14TF ⁽²⁾
TorqProve enhanced torque control	-24TPC ⁽³⁾
Safe Torque Off	-24STO ⁽⁴⁾
Four Auxiliary Contacts for Remote Indication of Drive Running, Drive Ready, Fault, and Warning	-89D5
Auxiliary Power Transformer	6AX ⁽⁵⁾
Low Voltage Surge Suppressor (1 suppressor across each 120V coil in the control circuit)	-17
TecSystem NT-538 Temperature Monitor/Controller for use with up to eight 100 Ω Platinum Three-Wire RTD Inputs	-84LP ⁽⁶⁾
TecSystem NT-538 Temperature Monitor/Controller With Modbus for use with up to eight 100 Ω Platinum Three-Wire RTD Inputs	-84LPM

(1) Redundant Fan (14RF) and Exhaust Ducting (14RD) options are mutually exclusive for PowerFlex 7000 and 7000A drives.

(2) Does not include tachometer.

(3) Mutually exclusive with Operator Interfaces -14NOTERC or -14NOTERF and Communication Modules -13COMM and -13COMD. Requires Tachometer Interface -14TF. Not available with 18 Pulse or Multi-motor applications.

(4) Not available with 18 Pulse or Multi-Motor applications.

(5) Available for PowerFlex 7000A drives only.

(6) Mutually exclusive with -24_ST Synchronous Transfer options. Motor Protection options must be added to each 1512M. A separate channel scanner is not required.

Drive Control Circuit Features

Operator Interface Description	24AST	24BST	24CST	24DST	24EST	24FST	24AMB
DRIVE-OFF-BYPASS keylock selector switch	—	—	—	—	—	—	1
DRIVE START illuminated push button (red)	1	2	3	4	5	6	—
BYPASS START illuminated push button (red)	1	2	3	4	5	6	—
STOP illuminated push button (green)	1	2	3	4	5	6	—
EMERGENCY STOP push/pull button (red) - includes safety relay	1	1	1	1	1	1	—
LOCAL-REMOTE selector switch	1	1	1	1	1	1	—
BYPASS ENABLE-BYPASS DISABLE keylock selector switch (mounted in LV panel)	1	1	1	1	1	1	—
TEST START push button (mounted in LV panel)	1	1	1	1	1	1	—
TEST STOP push button (mounted in LV panel)	1	1	1	1	1	1	—
PILOTLIGHT TEST push button	1	1	1	1	1	1	—
VFD READY pilot light (blue)	1	1	1	1	1	1	—
VFD RUN pilot light (red)	1	1	1	1	1	1	—
FAULT pilot light (red)	1	1	1	1	1	1	—
WARNING pilot light (amber)	1	1	1	1	1	1	—
SYSTEM READY pilot light (blue)	1	1	1	1	1	1	—

Notes:

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
PowerFlex 7000 AC Drive A Frame User Manual, publication 7000A-UM200	Provides detailed information on hardware replacement, overview, control and power component definition, maintenance and specifications for air-cooled A frame medium voltage variable frequency drives.
PowerFlex 7000 AC Drive B Frame User Manual, publication 7000-UM202	Provides detailed information on hardware replacement, overview, control and power component definition, maintenance and specifications for air-cooled B frame medium voltage variable frequency drives.
PowerFlex 7000 AC Drive C Frame User Manual, publication 7000L-UM303	Provides detailed information on hardware replacement, overview, control and power component definition, maintenance and specifications for liquid-cooled C frame medium voltage variable frequency drives.
PowerFlex 7000 Series Safe Torque Off User Manual, publication 7000-UM203	Provides information on safety requirements, installing, configuring, and preventative maintenance of the PowerFlex 7000 Safe Torque Off option.
PowerFlex 7000 HMI Offering User Manual, publication 7000-UM201	Provides detailed information to configure, set up, operate, update and troubleshoot the PowerFlex 7000 HMI Interface Board.
PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide, publication 7000-TG002	Provides fault and warning messages, spare parts, and fault and warning codes for all PowerFlex 7000 medium voltage drives.
PowerFlex 7000 AC Drive Transportation and Handling Procedures, publication 7000-IN008	Provides receiving and handling instructions for medium voltage variable frequency drive and related equipment
PowerFlex 7000 AC Drive Medium Voltage AC Drive Parameter Manual, publication 7000-TD002	Provides complete parameter listing for all PowerFlex 7000 medium voltage drives.
PowerFlex 7000 AC Drive B Frame Installation Instruction, publication 7000-IN007	Provides detailed installation and pre-commissioning procedures and information for PowerFlex 7000 B frame drives.
EtherNet/IP Network Devices User Manual, ENET-UM006	Describes how to configure and use EtherNet/IP devices to communicate on the EtherNet/IP network.
Ethernet Reference Manual, ENET-RM002	Describes basic Ethernet concepts, infrastructure components, and infrastructure features.
System Security Design Guidelines Reference Manual, SECURE-RM001	Provides guidance on how to conduct security assessments, implement Rockwell Automation products in a secure system, harden the control system, manage user access, and dispose of equipment.
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-1.1	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.

You can view or download publications at rok.auto/literature.

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Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
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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Rockwell Otomasyon Ticaret A.Ş. Kar Plaza İş Merkezi E Blok Kat:6 34752, İçerenköy, İstanbul, Tel: +90 (216) 5698400 EEE Yönetmeliğine Uygundur

Connect with us.    

rockwellautomation.com — expanding **human possibility™**

AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846