



PowerFlex 700 User Manual Updates

This document contains updated information for the PowerFlex 700 User Manual (publication 20B-UM001A-EN-P) dated April, 2001. This document supersedes any previous updates for the PowerFlex 700 User Manual.

Page 1-6

A new section has been added for Frame 5 drives.



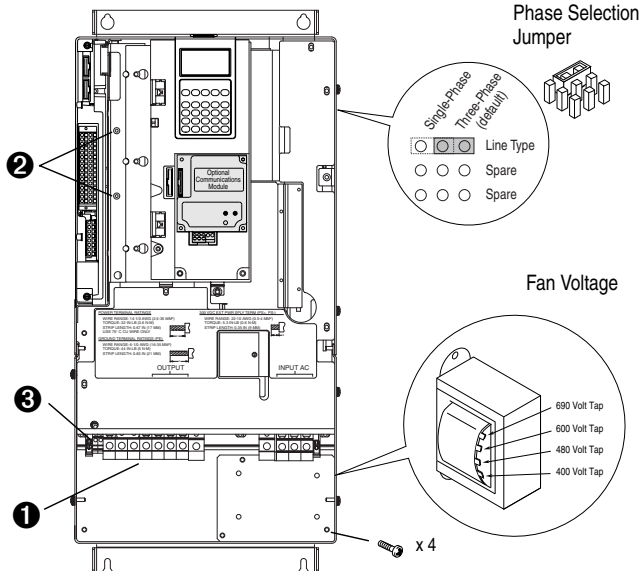
ATTENTION: To avoid a shock hazard, assure that all power to the drive has been removed before performing the following.

AC Input Phase Selection (Frame 5 Only)

Moving the “Line Type” jumper as shown in the figure below will select single or three-phase operation.

Selecting/Verifying Fan Voltage (Frame 5 Only)

Frame 5 drives utilize a transformer to match the input line voltage to the internal fan voltage. If your line voltage is different than the voltage class specified on the drive nameplate, it may be necessary to change transformer tap as shown below.



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Table was updated to include Frame 5 information. Frame 5 terminals are identified on pages [1](#) and [3](#).

Table 1.B Power Terminal Block Specifications

No.	Name	Frame	Description	Wire Size Range ⁽¹⁾		Torque	
				Maximum	Minimum	Maximum	Recommended
❶	Power Terminal Block	0 & 1	Input power and motor connections	4.0 mm ² (10 AWG)	0.5 mm ² (22 AWG)	1.7 N-m (15 lb.-in.)	0.8 N-m (7 lb.-in.)
		2	Input power and motor connections	10.0 mm ² (6 AWG)	0.8 mm ² (18 AWG)	1.7 N-m (15 lb.-in.)	1.4 N-m (12 lb.-in.)
		3	Input power and motor connections	25.0 mm ² (3 AWG)	2.5 mm ² (14 AWG)	3.6 N-m (32 lb.-in.)	1.8 N-m (16 lb.-in.)
			BR1, 2 terminals	10.0 mm ² (6 AWG)	0.8 mm ² (18 AWG)	1.7 N-m (15 lb.-in.)	1.4 N-m (12 lb.-in.)
		5 (75 HP)	Input power, BR1, 2, DC+, DC- and motor connections	35.0 mm ² (1/0 AWG)	2.5 mm ² (14 AWG)	3.6 N-m (32 lb.-in.)	3.6 N-m (32 lb.-in.)
			PE	35.0 mm ² (1/0 AWG)	16.0 mm ² (6 AWG)	5 N-m (44 lb.-in.)	5 N-m (44 lb.-in.)
		5 (100 HP)	Input power, DC+, DC- and motor connections	70.0 mm ² (3/0 AWG)	16.0 mm ² (4 AWG)	15 N-m (133 lb.-in.)	15 N-m (133 lb.-in.)
			BR1, 2, terminals	35.0 mm ² (1/0 AWG)	2.5 mm ² (14 AWG)	3.6 N-m (32 lb.-in.)	3.6 N-m (32 lb.-in.)
PE	35.0 mm ² (1/0 AWG)		16.0 mm ² (6 AWG)	5 N-m (44 lb.-in.)	5 N-m (44 lb.-in.)		
❷	SHLD Terminal	0-5	Terminating point for wiring shields	—	—	1.6 N-m (14 lb.-in.)	1.6 N-m (14 lb.-in.)
❸	AUX Terminal Block	0-3	Auxiliary Control Voltage ⁽²⁾	1.3 mm ² (16 AWG)	0.2 mm ² (24 AWG)	—	—
		5		4.0 mm ² (10 AWG)	0.5 mm ² (22 AWG)	0.6 N-m (5.3 lb.-in.)	0.6 N-m (5.3 lb.-in.)

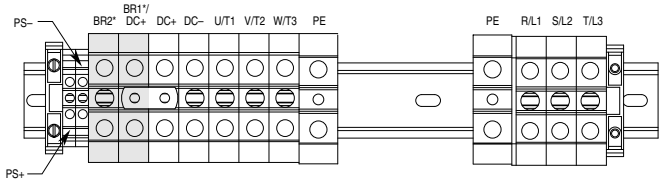
(1) Maximum/minimum sizes that the terminal block will accept - these are not recommendations.

(2) External control power - 300V DC, ±10%, 90mA.

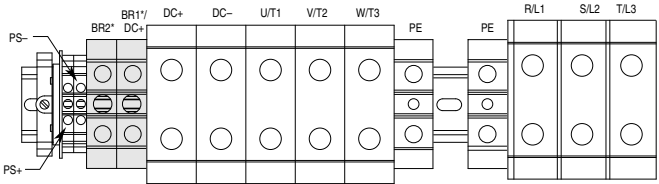
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Frame 5 Power Terminal Blocks added.

Figure 1.3 Power Terminal Block



75 HP, 480V (55kW, 400V) Normal Duty Drive



100 HP, 480V Normal Duty Drive

* Terminals BR1 & BR2 will only be present on drives ordered with the Brake Option.

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The “Minimum Insulation Rating” in Table 1.C has been updated.

Table 1.C Recommended Signal Wire

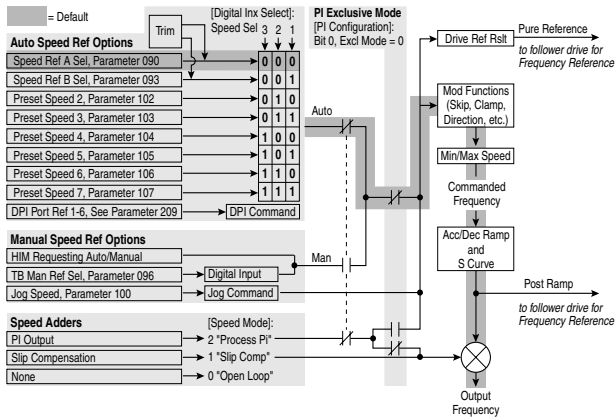
Signal Type	Wire Type(s)	Description	Minimum Insulation Rating
Standard Analog I/O	Belden 8760/9460 (or equiv.)	0.750 mm ² (18 AWG), twisted pair, 100% shield with drain ⁽¹⁾ .	300V, 60 degrees C (140 degrees F)
	Belden 8770 (or equiv.)	0.750 mm ² (18 AWG), 3 cond., shielded for remote pot only.	
Encoder/Pulse I/O	Less than or equal to 30 m (98 ft.) – Belden 9730 (or equiv.)	0.196 mm ² (24 AWG), individually shielded.	
	Greater than 30 m (98 ft.) – Belden 9773 (or equiv.)	0.750 mm ² (18 AWG), twisted pair, shielded.	
EMC Compliance	Refer to EMC Instructions on page 5 for details.		

(1) If the wires are short and contained within a cabinet which has no sensitive circuits, the use of shielded wire may not be necessary, but is always recommended.

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Figure 1.6 has been updated.

Figure 1.6 Speed Reference Selection Chart⁽¹⁾



⁽¹⁾ To access Preset Speed 1, set [Speed Ref A Sel] or [Speed Ref B Sel] to "Preset Speed 1".

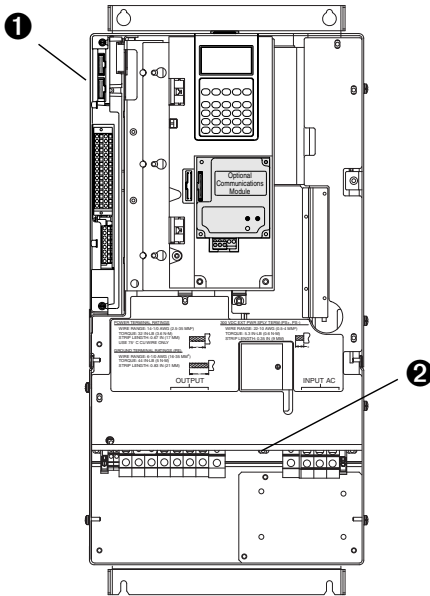
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Jumper information has been updated for Frame 5.

Table 1.C Jumper Removal

Frames	Jumper	Component	Jumper Location	No.
5	PEA	Common Mode Capacitors	Remove the I/O Cassette as described on page 1-10 of the User Manual. The green/yellow jumper is located on the back of chassis in the area shown on page 5. Disconnect, insulate and secure the wire to guard against unintentional contact with chassis or components.	①
	PEB	MOV's	Note location of green/yellow jumper wire on page 5. Disconnect, insulate and secure the wire guard against unintentional contact with chassis or components.	②

Figure 1.7 Typical Frame 5 Jumper Locations



Page 1-16

The EMC Instructions have been updated.

CE Conformity

Conformity with the Low Voltage (LV) Directive and Electromagnetic Compatibility (EMC) Directive has been demonstrated using harmonized European Norm (EN) standards published in the Official Journal of the European Communities. PowerFlex Drives comply with the EN standards listed below when installed according to the User Manual.

CE Declarations of Conformity are available online at:
<http://www.ab.com/certification/ce/docs>.

Low Voltage Directive (73/23/EEC)

- EN50178 Electronic equipment for use in power installations.
- EN60204-1 Safety of machinery – Electrical equipment of machines.

EMC Directive (89/336/EEC)

- EN61800-3 Adjustable speed electrical power drive systems Part 3: EMC product standard including specific test methods.

General Notes

- If the adhesive label is removed from the top of the drive, the drive must be installed in an enclosure with side openings less than 12.5 mm (0.5 in.) and top openings less than 1.0 mm (0.04 in.) to maintain compliance with the LV Directive.
- The motor cable should be kept as short as possible in order to avoid electromagnetic emission as well as capacitive currents.
- Use of line filters in ungrounded systems is not recommended.
- PowerFlex drives may cause radio frequency interference if used in a residential or domestic environment. The user is required to take measures to prevent interference, in addition to the essential requirements for CE compliance listed below, if necessary.
- Conformity of the drive with CE EMC requirements does not guarantee an entire machine or installation complies with CE EMC requirements. Many factors can influence total machine/installation compliance.

Essential Requirements for CE Compliance

Conditions 1-4 listed below **must be** satisfied for PowerFlex drives to meet the requirements of **EN61800-3**.

1. Standard PowerFlex CE compatible Drive.
2. Grounding as described on page 1-4 of the User Manual.
3. Output power, control (I/O) and signal wiring must be braided, shielded cable with a coverage of 75% or better, metal conduit or equivalent attenuation.
4. Conditions in [Table 1.G](#).

Table 1.G PowerFlex 700 EN61800-3 EMC Compatibility

Frame	Second Environment	First Environment Restricted Distribution	
	<i>Restrict Motor Cable to 30 m (98 ft.)</i>	<i>Any Drive and Option</i>	<i>External Filter Required ⁽¹⁾</i>
0	✓	✓	✓
1	✓	✓	✓
2	✓	✓	✓
3	✓	✓	✓
5	Not available at time of publication		


⁽¹⁾ External filters for First Environment installations and increasing motor cable lengths in Second Environment installations are available. Roxburgh models KMFA (RF3 for UL installations) and MIF or Schaffner FN3258 and FN258 models are recommended. Refer to <http://www.deltron-emcon.com> and <http://www.mtecorp.com> (USA) or <http://www.schaffner.com>, respectively. Additional information is also available in the PowerFlex Reference Manual.

Page 3-11

The “Default” value for [SV Boost Filter] was changed to “500.”


Page 3-23

For Frame 5 drives, the **Important** note was added to the following.

	197	<p>[Reset To Defaults]</p> <p> Resets all parameter values to defaults. Option 1 resets drive to factory settings. Options 2 and 3 will reset drive to alternate voltage and current rating.</p> <p>Important: On Frame 5 drives, the internal fan voltage may have to be changed when using Options 2 or 3. See Selecting/Verifying Fan Voltage (Frame 5 Only) on page 1.</p>	Default: 0	“Ready”
	Options: 0 1 2 3	“Ready” “Factory” “Low Voltage” “High Voltage”		

Page 3-24

For Frame 5 drives, the **Important** note was added to the following.

	202	<p>[Voltage Class]</p> <p> Configures the drive current rating and associates it with the selected voltage (i.e. 400 or 480V). This parameter is normally used when downloading parameter sets.</p> <p>Important: On Frame 5 drives, the internal fan voltage may have to be changed when using Options 2 or 3. See Selecting/Verifying Fan Voltage (Frame 5 Only) on page 1.</p>	Default:	Based on Drive Cat. No.
	Options: 2 3	“Low Voltage” “High Voltage”		

Page 3-37

The “Default” value for [Digital In3 Sel] was changed to “18 - Auto/Manual.”

Page 4-2

A new section has been added to describe LED indicators located on the Frame 5 Precharge Board. The LEDs are located above the “Line Type” jumper shown on [page 1](#).

Precharge board LED indications

Name	Color	State	Description
Power ON	Green	Steady	Indicates when pre-charge board power supply is operational
Alarm	Yellow	Steady	Indicates one of the following alarms occurred causing the pre-charge to momentarily stop firing: <ul style="list-style-type: none"> • Line Loss • Low Phase (single-phase dropped below 80% of line voltage) • Input frequency out of range (momentarily) Note: An alarm condition automatically resets when the condition no longer exists
Fault	Red	Steady	Indicates one of the following faults: <ul style="list-style-type: none"> • DC Bus short • DC Bus not charged • Input frequency out of range • Overtemperature Note: A fault indicates a malfunction that needs to be corrected prior to restarting. A fault condition is only reset after cycling power.

Page 4-9

The Description for fault number 26 was clarified as follows.

Alarm	No.	Type ⁽¹⁾	Description
FluxAmpsRef Rang	26	②	The calculated or measured Flux Amps value is not within the expected range. Verify motor data and rerun motor tests.

⁽¹⁾ See page 4-1 in the User Manual for a description of alarm types.

Appendix A

The general fuse information was clarified and ratings for Frames 3 & 5 were updated.

Drive, Fuse & Circuit Breaker Ratings

The tables on the following pages provide drive ratings (including continuous, 1 minute and 3 second) and recommended AC line input fuse and circuit breaker information. Both types of short circuit protection are acceptable for UL and IEC requirements. Sizes listed are the recommended sizes based on 40 degree C and the U.S. N.E.C. Other country, state or local codes may require different ratings.

Fusing

If fuses are chosen as the desired protection method, refer to the recommended types listed below. If available amp ratings do not match the tables provided, the closest fuse rating that exceeds the drive rating should be chosen.

- IEC – BS88 (British Standard) Parts 1 & 2⁽¹⁾, EN60269-1, Parts 1 & 2, type gG or equivalent should be used.
- UL – UL Class CC, T, RK1 or J must be used.

Circuit Breakers

The “non-fuse” listings in the following tables include both circuit breakers (inverse time or instantaneous trip) and 140M Self-Protecting Motor Starters. **If one of these is chosen as the desired protection method**, the following requirements apply.

- IEC and UL – Both types of devices are acceptable for IEC and UL installations.

⁽¹⁾ Typical designations include, but may not be limited to the following; Parts 1 & 2: AC, AD, BC, BD, CD, DD, ED, EFS, EF, FF, FG, GF, GG, GH.

Table A.A 208/240 Volt AC Input Recommended Protection Devices (See [page 11](#) for Notes)

Drive Catalog Number	Frame	HP Rating		Input Ratings		Output Amps			Dual Element Time Delay Fuse		Non-Time Delay Fuse		Circuit Breaker ⁽³⁾	Motor Circuit Protector ⁽⁴⁾	140M Motor Starter with Adjustable Current Range ⁽⁵⁾⁽⁶⁾			
		ND	HD	Amps	kVA	Cont.	1 Min.	3 Sec.	Min. ⁽¹⁾	Max. ⁽²⁾	Min. ⁽¹⁾	Max. ⁽²⁾			Amps	Amps	Available Catalog Numbers ⁽⁷⁾	
208 Volt AC Input																		
20BB2P2	0	0.5	0.33	1.9	0.7	2.5	2.7	3.7	3	6	3	10	15	3	140M-C2E-B25	140M-D8E-B25	-	-
20BB4P2	0	1	0.75	3.7	1.3	4.8	5.5	7.4	6	10	6	17.5	15	7	140M-C2E-B63	140M-D8E-B63	-	-
20BB6P8	0	2	1.5	6.8	2.4	7.8	10.3	13.8	10	15	10	30	30	15	140M-C2E-C10	140M-D8E-C10	140M-F8E-C10	-
20BB9P6	0	3	2	9.5	3.4	11	12.1	16.5	12	20	12	40	40	15	140M-C2E-C16	140M-D8E-C16	140M-F8E-C16	-
20BB015	1	5	3	15.7	5.7	17.5	19.2	26.6	20	35	20	70	70	30	140M-C2E-C20	140M-D8E-C20	140M-F8E-C20	-
20BB022	1	7.5	5	23.0	8.3	25.3	27.8	37.9	30	50	30	100	100	30	140M-C2E-C25	140M-D8E-C25	140M-F8E-C25	140M-CMN-2500
20BB028	2	10	7.5	29.6	10.7	32.2	37.9	50.6	40	70	40	125	125	50	-	-	140M-F8E-C32	140M-CMN-4000
20BB042	3	15	10	44.5	16.0	48.3	53	72.5	60	100	60	175	175	70	-	-	140M-F8E-C45	140M-CMN-6300
20BB052	3	20	15	51.5	17.1	56	64	86	80	125	80	225	225	100	-	-	-	140M-CMN-6300
240 Volt AC Input																		
20BB2P2	0	0.5	0.33	1.7	0.7	2.2	2.4	3.3	3	6	3	10	15	3	140M-C2E-B25	140M-D8E-B25	-	-
20BB4P2	0	1	0.75	3.3	1.4	4.2	4.8	6.4	5	8	5	15	15	7	140M-C2E-B63	140M-D8E-B63	-	-
20AB6P8	0	2	1.5	5.9	2.4	6.8	9	12	10	15	10	25	25	15	140M-C2E-C10	140M-D8E-C10	140M-F8E-C10	-
20BB9P6	0	3	2	8.3	3.4	9.6	10.6	14.4	12	20	12	35	35	15	140M-C2E-C10	140M-D8E-C10	140M-F8E-C10	-
20BB015	1	5	3	13.7	5.7	15.3	17.4	23.2	20	30	20	60	60	30	140M-C2E-C16	140M-D8E-C16	140M-F8E-C16	-
20BB022	1	7.5	5	19.9	8.3	22	24.2	33	25	50	25	80	80	30	140M-C2E-C25	140M-D8E-C25	140M-F8E-C25	140M-CMN-2500
20BB028	2	10	7.5	25.7	10.7	28	33	44	35	60	35	100	100	50	-	-	140M-F8E-C32	140M-CMN-4000
20BB042	3	15	10	38.5	16.0	42	46.2	63	50	90	50	150	150	50	-	-	140M-F8E-C45	140M-CMN-6300
20BB052	3	20	15	47.7	18.2	52	60	80	60	100	60	200	200	100	-	-	-	140M-CMN-6300

Table A.B 400 Volt AC Input Recommended Protection Devices

Drive Catalog Number	Frame	kW/HP Rating		Input Ratings		Output Amps			Dual Element Time Delay Fuse		Non-Time Delay Fuse		Circuit Breaker ⁽³⁾	Motor Circuit Protector ⁽⁴⁾	140M Motor Starter with Adjustable Current Range ⁽⁵⁾⁽⁶⁾			
		ND	HD	Amps	kVA	Cont.	1 Min.	3 Sec.	Min. ⁽¹⁾	Max. ⁽²⁾	Min. ⁽¹⁾	Max. ⁽²⁾			Amps	Amps	Available Catalog Numbers ⁽⁷⁾	
400 Volt AC Input																		
20BC1P3	0	0.37	0.25	1.1	0.77	1.3	1.4	1.9	3	3	3	6	15	3	140M-C2E-B16	–	–	–
20BC2P1	0	0.75	0.55	1.8	1.3	2.1	2.4	3.2	3	6	3	8	15	3	140M-C2E-B25	140M-D8E-B25	–	–
20BC3P5	0	1.5	0.75	3.2	2.2	3.5	4.5	6.0	6	7	6	12	15	7	140M-C2E-B40	140M-D8E-B40	–	–
20BC5P0	0	2.2	1.5	4.6	3.2	5.0	5.5	7.5	6	10	6	20	20	7	140M-C2E-B63	140M-D8E-B63	–	–
20BC8P7	0	4	2.2	7.9	5.5	8.7	9.9	13.2	15	17.5	15	30	30	15	140M-C2E-C10	140M-D8E-C10	140M-F8E-C10	–
20BC011	0	5.5	4	10.8	7.5	11.5	13	17.4	15	25	15	45	45	15	140M-C2E-C16	140M-D8E-C16	140M-F8E-C16	–
20BC015	1	7.5	5.5	14.4	10.0	15.4	17.2	23.1	20	30	20	60	60	20	140M-C2E-C20	140M-D8E-C20	140M-F8E-C20	–
20BC022	1	11	7.5	20.6	14.3	22	24.2	33	30	45	30	80	80	30	140M-C2E-C25	140M-D8E-C25	140M-F8E-C25	–
20BC030	2	15	11	28.4	19.7	30	33	45	35	60	35	120	120	50	–	–	140M-F8E-C32	–
20BC037	3	18.5	15	35.0	24.3	37	45	60	45	80	45	125	125	50	–	–	140M-F8E-C45	–
20BC043	3	22	18.5	40.7	28.2	43	56	74	60	90	60	150	150	60	–	–	–	–
20BC056	3	30	22	53	36.7	56	64	86	70	125	70	200	200	100	–	–	–	–
20BC072	3	37	30	68.9	47.8	72	84	112	90	150	90	250	250	100	–	–	–	–
20BC105	5	–	45	81.4	56.4	85	128	170	110	150	110	300	300	150	–	–	–	–
		55	–	100.5	69.7	105	116	158	125	225	125	400	400	150	–	–	–	–
20BC125	5	–	45	91.9	63.7	96	144	168	125	225	125	375	375	150	–	–	–	–
		55	–	121.1	83.9	125	138	163	150	275	150	500	500	250	–	–	–	–

Notes:

- (1) Minimum protection device size is the lowest rated device that supplies maximum protection without nuisance tripping.
- (2) Maximum protection device size is the highest rated device that supplies drive protection. For US NEC, minimum size is 125% of motor FLA. Ratings shown are maximum.
- (3) Circuit Breaker - inverse time breaker. For US NEC, minimum size is 125% of motor FLA. Ratings shown are maximum.
- (4) Motor Circuit Protector - instantaneous trip circuit breaker. For US NEC minimum size is 125% of motor FLA. Ratings shown are maximum.
- (5) Bulletin 140M with adjustable current range should have the current trip set to the minimum range that the device will not trip.
- (6) Manual Self-Protected (Type E) Combination Motor Controller, UL listed for 208 Wye or Delta, 240 Wye or Delta, 480Y/277 or 600Y/347. Not UL listed for use on 480V or 600V Delta/Delta systems.
- (7) The AIC ratings of the Bulletin 140M Motor Protector may vary. See publication 140M-SG001B-EN-P.

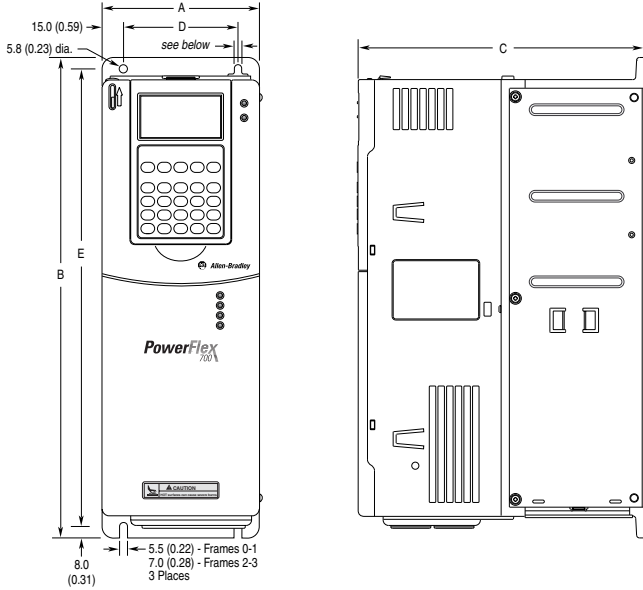
Table A.C 480 Volt AC Input Recommended Protection Devices (See [page 11](#) for Notes)

Drive Catalog Number	Frame	kW/HP Rating		Input Ratings		Output Amps			Dual Element Time Delay Fuse		Non-Time Delay Fuse		Circuit Breaker ⁽³⁾ Amps	Motor Circuit Protector ⁽⁴⁾ Amps	140M Motor Starter with Adjustable Current Range ⁽⁵⁾⁽⁶⁾			
		ND	HD	Amps	kVA	Cont.	1 Min.	3 Sec.	Min. ⁽¹⁾	Max. ⁽²⁾	Min. ⁽¹⁾	Max. ⁽²⁾			Available Catalog Numbers ⁽⁷⁾			
480 Volt AC Input																		
20BD1P1	0	0.5	0.33	0.7	1.1	1.2	1.6	3	3	3	6	15	3	140M-C2E-B16	–	–	–	–
20BD2P1	0	1	0.75	1.6	1.4	2.1	2.4	3.2	3	6	3	8	15	140M-C2E-B25	–	–	–	–
20BD3P4	0	2	1.5	2.6	2.2	3.4	4.5	6.0	4	8	4	12	15	140M-C2E-B40	140M-D8E-B40	–	–	–
20BD5P0	0	3	2	3.9	3.2	5.0	5.5	7.5	6	10	6	20	20	140M-C2E-C63	140M-D8E-C63	–	–	–
20BD8P0	0	5	3	6.9	5.7	8.0	8.8	12	10	15	10	30	30	140M-C2E-C10	140M-D8E-C10	140M-F8E-C10	–	–
20BD011	0	7.5	5	9.5	7.9	11	12.1	16.5	15	20	15	40	40	140M-C2E-C10	140M-D8E-C10	140M-F8E-C10	–	–
20BD014	1	10	7.5	12.5	10.4	14	16.5	22	17.5	30	17.5	50	50	140M-C2E-C16	140M-D8E-C16	140M-F8E-C16	–	–
20BD022	1	15	10	19.9	16.6	22	24.2	33	25	50	25	80	80	140M-C2E-C25	140M-D8E-C25	140M-F8E-C25	140-CMN-2500	–
20BD027	2	20	15	24.8	20.6	27	33	44	35	60	35	100	100	–	–	140M-F8E-C32	140-CMN-4000	–
20BD034	2	25	20	31.2	25.9	34	40.5	54	40	70	40	125	125	50	–	140M-F8E-C45	140-CMN-4000	–
20BD040	3	30	25	36.7	30.5	40	51	68	50	90	50	150	150	50	–	140M-F8E-C45	140-CMN-4000	–
20BD052	3	40	30	47.7	39.7	52	60	80	60	110	60	200	200	70	–	–	–	140M-CMN-6300
20BD065	3	50	40	59.6	49.6	65	78	104	75	125	75	250	250	100	–	–	–	140M-CMN-9000
20BD096	5	–	60	72.3	60.1	77	116	154	100	170	100	300	300	100	–	–	–	140M-CMN-9000
		75	–	90.1	74.9	96	106	144	125	200	125	350	350	125	–	–	–	–
20BD125	5	–	75	90.1	74.9	96	144	168	125	200	125	350	350	125	–	–	–	–
		100	–	117	97.6	125	138	163	150	250	150	500	500	150	–	–	–	–

Appendix A

Dimension information has been added.

Figure A.1 PowerFlex 700 Frames 0-3 (0 Frame Shown)

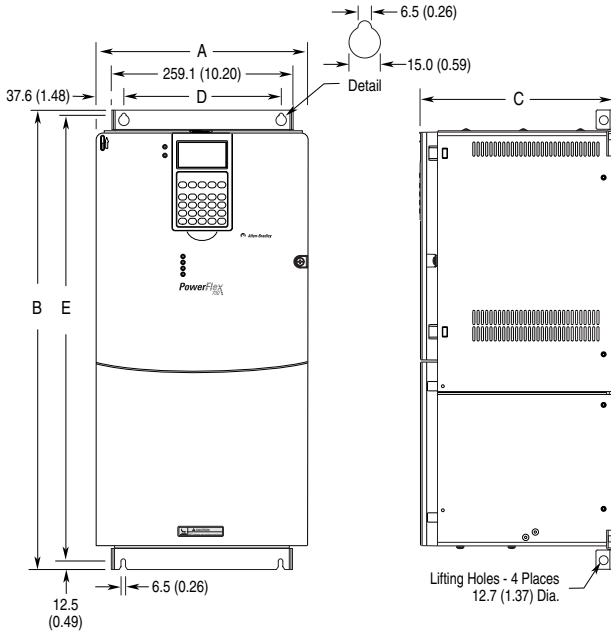


Dimensions are in millimeters and (inches).

Frame (see Table A.A)	A (Max.)	B	C (Max.)	D	E	Approx. Weight ⁽¹⁾ kg (lbs.)	
						Drive	Drive & Packaging
0	110.0 (4.33)	336.0 (13.23)	200.0 (7.87)	80.0 (3.15)	320.0 (12.60)	5.22 (11.5)	8.16 (18)
1	135.0 (5.31)	336.0 (13.23)	200.0 (7.87)	105.0 (4.13)	320.0 (12.60)	7.03 (15.5)	9.98 (22)
2	222.0 (8.74)	342.5 (13.48)	200.0 (7.87)	192.0 (7.56)	320.0 (12.60)	12.52 (27.6)	15.20 (33.5)
3	222.0 (8.74)	517.5 (20.37)	200.0 (7.87)	192.0 (7.56)	500.0 (19.69)	18.55 (40.9)	22.68 (50)

⁽¹⁾ Weights include HIM and Standard I/O.

Figure A.1 PowerFlex 700 Frame 5



Dimensions are in millimeters and (inches).

Frame (See Table A.A)	A (Max.)	B	C (Max.)	D	E	Approx. Weight ⁽¹⁾ kg (lbs.)	
						Drive	Drive & Packaging
5	308.9 (12.16)	644.5 (25.37) ⁽²⁾	275.4 (10.84)	225.0 (8.86)	625.0 (24.61)	37.19 (82.0)	42.18 (93.0)

(1) Weights include HIM and Standard I/O.

(2) When using the supplied junction box (100 HP drives Only), add an additional 45.1 mm (1.78 in.) to this dimension.

Table A.A PowerFlex 700 Frames

Frame	208/240V AC Input		400V AC Input		480V AC Input	
	ND HP	HD HP	ND kW	HD kW	ND HP	HD HP
0	0.5	0.33	0.37	0.25	0.5	0.33
	1	0.75	0.75	0.55	1	0.75
	2	1.5	1.5	0.75	2	1.5
	3	2	2.2	1.5	3	2
	–	–	4	2.2	5	3
	–	–	5.5	4	7.5	5
1	5	3	7.5	5.5	10	7.5
	7.5	5	11	7.5	15	10
2	10	7.5	15	11	20	15
	–	–	18.5	15	25	20
3	15	10	22	18.5	30	25
	20	15	30	22	40	30
	–	–	37	30	50	40
5	–	–	55	45	–	–
	–	–	–	–	75	60
	–	–	–	–	100	75

Figure A.2 PowerFlex 700 Bottom View Dimensions

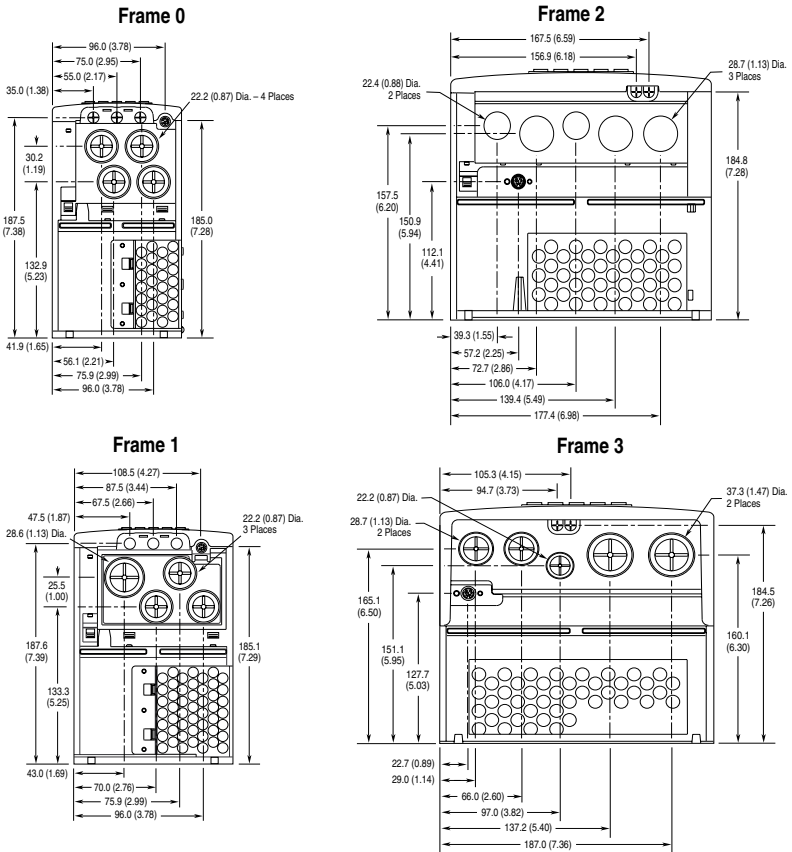
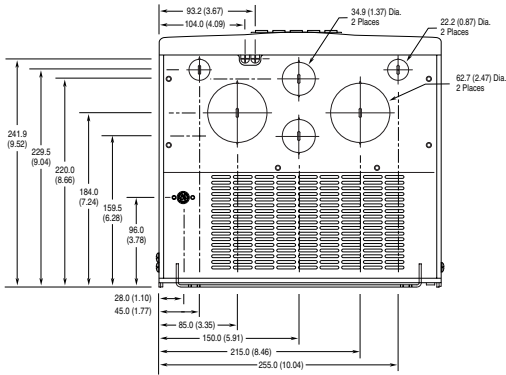
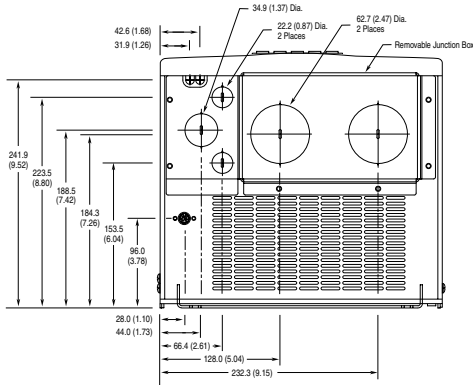


Figure A.2 PowerFlex 700 Bottom View Dimensions (continued)

Frame 5 – 75 HP, 480V (55kW, 400V) Normal Duty Drive



Frame 5 – 100 HP, 480V Normal Duty Drive



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