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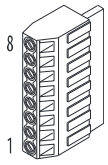
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Hardware Enable Circuitry (Vector Control Only)

By default, the user can program a digital input as an Enable input. The status of this input is interpreted by drive software. If the application requires the drive to be disabled without software interpretation, a "dedicated" hardware enable configuration can be utilized. This is done by removing a jumper and wiring the enable input to "Digital In 6."

Encoder Interface Option (Vector Control Only)

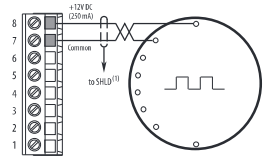
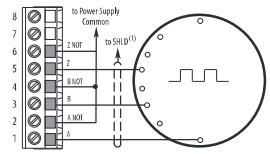
Encoder Terminal Designations

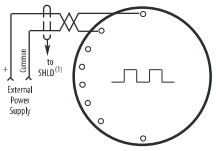
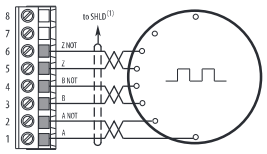


No.	Description (refer to specifications on page 11)	
8	+12V(1) DC Power	Internal power source 250 mA.
7	+12V(1) DC Return (Common)	
6	Encoder Z (NOT)	Pulse, marker or registration input.(2)
5	Encoder Z	
4	Encoder B (NOT)	Quadrature B input.
3	Encoder B	
2	Encoder A (NOT)	Single channel or quadrature A input.
1	Encoder A	

(1) Jumper selectable +5/12V is available on 20B-ENC-1 Encoder Boards.
(2) Z channel can be used as a pulse input while A & B are used for encoder.

Sample Encoder Wiring

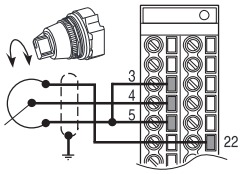
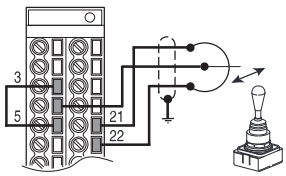
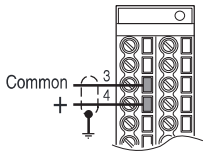
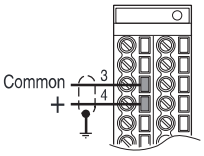
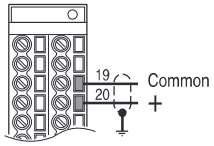
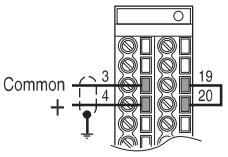
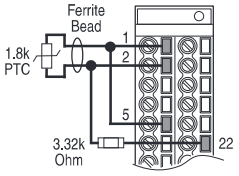
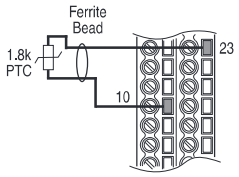
I/O	Connection Example
Encoder Power –Internal Drive Power Internal (drive) 12V DC, 250mA(1)	
Encoder Signal –Single-Ended, Dual Channel(2)	

I/O	Connection Example
Encoder Power –External Power Source	
Encoder Signal –Differential, Dual Channel	

(1) SHLD connection is on drive chassis (see page 36).
(2) Example applies to 20B-ENC-1 only.

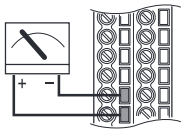
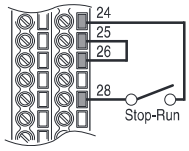
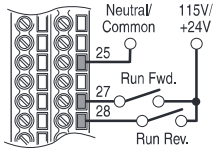
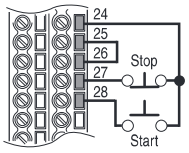
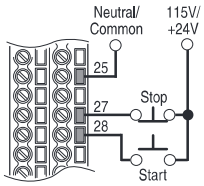
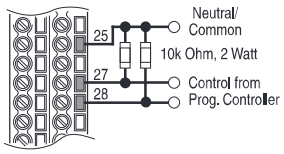
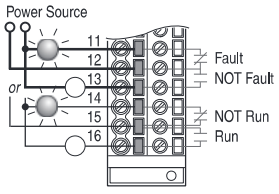
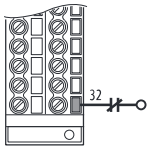
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I/O Wiring Examples – Standard & Vector Control Options

Input/Output	Connection Example	Required Parameter Changes
Potentiometer Unipolar Speed Reference (1) 10k Ohm Pot. Recommended (2k Ohm Minimum)		• Adjust Scaling: Parameters 91/92 and 325/326 • View Results: Parameter 002
Joystick Bipolar Speed Reference (1) ±10V Input		• Set Direction Mode: Parameter 190 = "1, Bipolar" • Adjust Scaling: Parameters 91/92 and 325/326 • View Results: Parameter 002
Analog Input Bipolar Speed Reference ±10V Input		• Set Direction Mode: Parameter 190 = "1, Bipolar" • Adjust Scaling: Parameters 91/92 and 325/326 • View Results: Parameter 002
Analog Voltage Input Unipolar Speed Reference 0 to +10V Input		• Configure Input with parameter 320 • Adjust Scaling: Parameters 91/92 and 325/326 • View results: Parameter 002
Analog Current Input Unipolar Speed Reference Standard 4-20 mA Input		• Configure Input for Current: Parameter 320, Bit 1 = "1, Current" • Adjust Scaling: Parameters 91/92 and 325/326 • View Results: Parameter 002
Analog Current Input Unipolar Speed Reference Vector 0-20 mA Input		• Configure Input for Current: Parameter 320 and add jumper at appropriate terminals • Adjust Scaling: Parameters 91/92 and 325/326 • View results: Parameter 002
Analog Input, PTC Vector PTC OT set > 5V PTC OT cleared < 4V PTC Short < 0.2V		• Set Fault Config 1: Parameter 238, bit 7 = "Enabled" • Set Alarm Config 1: Parameter 259, bit 11 = "Enabled" • View Drive Alarm 1: Parameter 211, bit 11 = "True"
HW PTC Input Series B Only PTC OT set > 5V PTC OT cleared < 4V PTC Short < 0.2V		• Set Fault Config 1: Parameter 238, bit 13 = "Enabled" • Set Alarm Config 1: Parameter 259, bit 18 = "Enabled" • View Status: Drive Alarm 1: Parameter 211, bit 18 = "True"

(1) Refer to the PowerFlex 700 User Manual for important bipolar wiring information.

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Input/Output	Connection Example	Required Parameter Changes
Analog Output ±10V, 0-20 mA Bipolar +10V Unipolar *(shown)* Standard Control 4-20 mA Unipolar *(use term. 8 & 9)*		• Configure with Parameter 340 • Select Source Value: Parameter 384, [Digital Out1 Sel] • Adjust Scaling: Parameters 343/344
2-Wire Control Non-Reversing(1) 24V DC internal supply		• Disable Digital Input:#1: Parameter 361 = "0, Unused" • Set Digital Input #2: Parameter 362 = "7, Run" • Set Direction Mode: Parameter 190 = "0, Unipolar"
2-Wire Control Reversing(1) External supply (I/O Board dependent)		• Set Digital Input:#1: Parameter 361 = "8, Run Forward" • Set Digital Input #2: Parameter 362 = "9, Run Reverse"
3-Wire Control Internal supply		• No Changes Required
3-Wire Control External supply (I/O Board dependent). Requires 3-wire functions only ([Digital In1 Sel]). Using 2-wire selections will cause a type 2 alarm.		• No Changes Required •
Digital Input PLC Output Card (Board dependent).		• No Changes Required •
Digital Output Relays shown in powered state with drive faulted. See page 44. Standard Control 1 relay at terminals 14-16. Vector Control 2 relays at terminals 14-16.		• Select Source to Activate: Parameters 380/384
Enable Input		• Standard Control Configure with parameter 366 • Vector Control Configure with parameter 366 For dedicated hardware Enable: Remove Jumper J10 (see page 46)

(1) **Important:** Programming inputs for 2 wire control deactivates all HIM Start buttons.

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Mounting

Frame/Rating Cross Reference

AC Input

Frame	208/240		400V		480V		600V		690V	
	ND Hp	HD Hp	ND kW	HD kW	ND Hp	HD Hp	ND Hp	HD Hp	ND kW	HD kW
0	0.5	0.33	0.37	0.25	0.5	0.33	1	0.5	–	–
	1	0.75	0.75	0.55	1	0.75	2	1	–	–
	–	–	1.5	0.75	2	1.5	3	2	–	–
	–	–	2.2	1.5	3	2	5	3	–	–
	–	–	4	2.2	5	3	7.5	5	–	–
	–	–	5.5	4	7.5	5	–	–	–	–
1	2	1.5	7.5	5.5	10	7.5	10	7.5	–	–
	3	2	11	7.5	15	10	15	10	–	–
	5	3	–	–	–	–	–	–	–	–
	7.5	5	–	–	–	–	–	–	–	–
2	10	7.5	15	11	20	15	20	15	–	–
	–	–	18.5	15	25	20	25	20	–	–
3	15	10	22	18.5	30	25	30	25	–	–
	20	15	30	22	40	30	40	30	–	–
	–	–	37	30	50	40	50	40	–	–
4	25	20	45	37	60	50	60	50	–	–
	30	25	–	–	–	–	–	–	–	–
5	40	30	55	45	75	60	75	60	45	37.5
	50	40	75	55	100	75	100	75	55	45
	–	–	–	–	–	–	–	–	75	55
	–	–	–	–	–	–	–	–	90	75
6	60	50	90	75	125	100	125	100	110	90
	75	60	110	90	150	125	150	125	132	110
	100	75	132	110	200	150	–	–	–	–
7	–	–	160	150	250	200	–	–	–	–
	–	–	180	180	250	250	–	–	–	–
8	–	–	200	180	300	250	–	–	–	–
	–	–	240	200	350	300	–	–	–	–
	–	–	280	240	400	350	–	–	–	–
	–	–	300	280	450	400	–	–	–	–
	–	–	350	300	500	450	–	–	–	–
9	–	–	400	350	600	500	–	–	–	–
10	–	–	500	400	700	600	–	–	–	–

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DC Input

	325V		540V		650V		810V		932V	
Frame	**ND Hp**	**HD Hp**	**ND kW**	**HD kW**	**ND Hp**	**HD Hp**	**ND Hp**	**HD Hp**	**ND kW**	**HD kW**
0	0.5	0.33	–	–	0.5	0.33	1	0.75	–	–
	1	0.75	–	–	1	0.75	2	1.5	–	–
	–	–	–	–	2	1.5	3	2	–	–
	–	–	–	–	3	2	5	3	–	–
	–	–	–	–	5	3	7.5	5	–	–
	–	–	–	–	7.5	5	10	7.5	–	–
1	2	1.5	0.37	0.25	10	7.5	15	10	–	–
	3	2	0.75	0.55	15	10	–	–	–	–
	5	3	1.5	0.75	–	–	–	–	–	–
	7.5	5	2.2	1.5	–	–	–	–	–	–
	–	–	4	2.2	–	–	–	–	–	–
	–	–	5.5	4	–	–	–	–	–	–
	–	–	7.5	5.5	–	–	–	–	–	–
	–	–	11	7.5	–	–	–	–	–	–
2	10	7.5	15	11	20	15	20	15	–	–
	–	–	18.5	15	25	20	25	20	–	–
3	15	10	22	18.5	30	25	30	25	–	–
	20	15	30	22	40	30	40	30	–	–
	–	–	37	30	50	40	50	40	–	–
4	25	20	45	37	60	50	60	50	–	–
	30	25	–	–	–	–	–	–	–	–
5	40	30	55	45	75	60	100	75	45	37.5
	50	40	–	–	100	75	–	–	90	75
6	60	50	75	55	125	100	150	125	132	110
	75	60	90	75	150	125	–	–	–	–
	100	75	110	90	–	–	–	–	–	–
	–	–	132	110	200	150	–	–	–	–
7	–	–	160	150	250	200	–	–	–	–
	–	–	180	180	250	250	–	–	–	–
8	–	–	200	180	300	250	–	–	–	–
	–	–	240	200	350	300	–	–	–	–
	–	–	280	240	400	350	–	–	–	–
	–	–	300	280	450	400	–	–	–	–
	–	–	350	300	500	450	–	–	–	–
9	–	–	400	350	600	500	–	–	–	–
10	–	–	500	400	700	600	–	–	–	–

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Operating Temperatures

PowerFlex 700 drives are designed to operate at 0°to 40° C ambient. To operate the drive in installations between 41° and 50° C, see the information below and refer to pages 25...32 for exceptions.

Acceptable Surrounding Air Temperature & Required Actions

Enclosure Rating	Temperature Range	Drive
IP20, NEMA / UL Type 1 (with Top Label) (1)	0…40 °C (0…104 °F)	Frames 0…4, All Ratings
	0…50 °C (0…122 °F)	Frames 5…6, Most Ratings (2)
IP20, NEMA / UL Type Open (Top Label Removed) (1)	0…50 °C (0…122 °F)	Frames 0…6, Most Ratings (2)
	0…45 °C (0…113 °F)	20BC072 Only
IP00, NEMA / UL Type Open (Top Label & Vent Plate Removed)	0…50 °C (0…122 °F)	20BC072 Only (3)
Flange Mount Front: IP00, NEMA / UL Type Open Back/Heat Sink: IP54, NEMA / UL Type 12	0…55 °C (0…131 °F) Front (Inside Encl.) 0…40 °C (0…104 °F) Back (External)	Frames 5…6
Stand-alone/Wall Mount IP54, NEMA / UL Type 12	0…40 °C (0…104 °F)	Frames 5…6
IP20, NEMA / UL Type 1	0…40 °C (0…104 °F)	Frames 7…10
IP00, NEMA / UL Type Open/Flange Mount Front: IP00, NEMA / UL Type Open Back/Heat Sink: IP54, NEMA12	0…65 °C (0…149 °F) Control Board 0…40 °C (0…104 °F) Heat Sink Entry Air	Frames 7…10
Roll In Front: IP00, NEMA / UL Type Open Back/Heat Sink: IP54, NEMA12	0…65 °C (0…149 °F) Control Board 0…40 °C (0…104 °F) Heat Sink Entry Air	Frames 8…9

(1) Removing the adhesive top label from the drive changes the NEMA / UL enclosure rating from Type 1 to Open. Frames 5 and 6 do not have a top label.

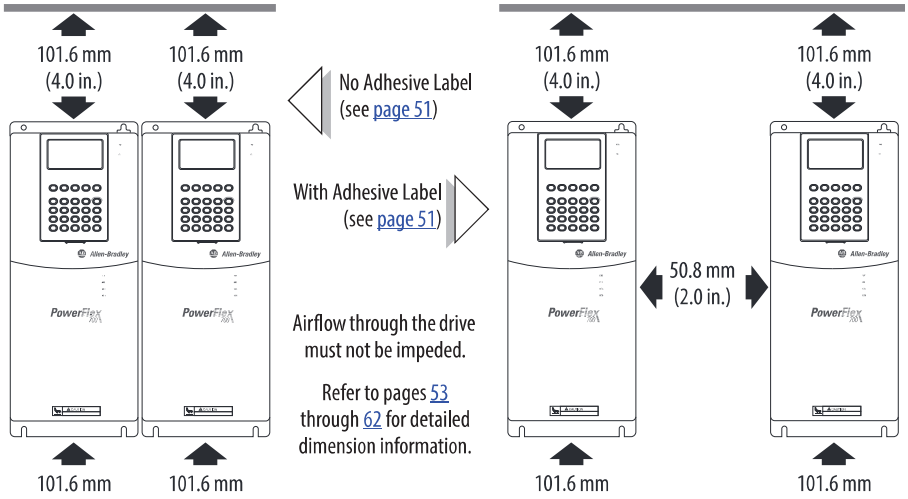
(2) Refer to pages 25…32 for exceptions.

(3) To remove vent plate (see page 53 for location), lift top edge of plate from the chassis. Rotate the plate out from the back plate.

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Minimum Mounting Clearances

Frames 0...6



Specified vertical clearance requirements (indicated above) are intended to be from the drive to the closest object that can restrict airflow through the drive heat sink and chassis. The drive must be mounted in a vertical orientation as shown and must make full contact with the mounting surface. Do not use standoffs or spacers. In addition, inlet air temperature must not exceed the product specification.

Frames 7...10

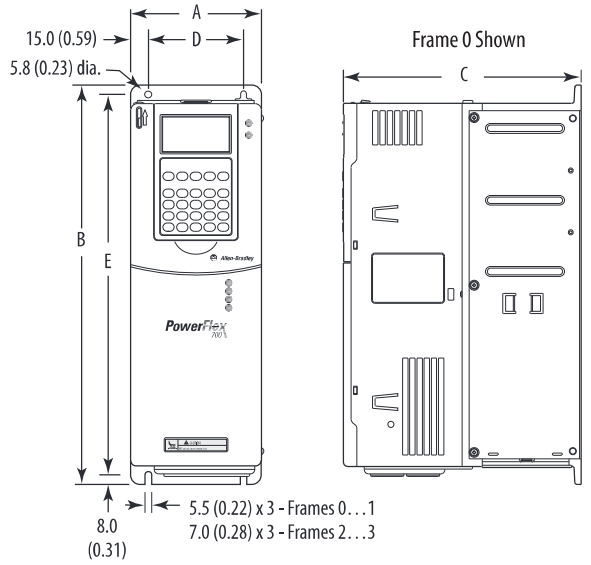
The drive must be mounted with sufficient space at the top, sides, and front of the cabinet to allow for proper heat dissipation.

Frame	Recommendations
7	Minimum of 152 mm (6.0 in.) at the top and bottom of the enclosure and 102 mm (4.0 in.) on the sides. Flange Mount - Minimum of 152 mm (6.0 in.) at the back of the enclosure (flange mount surface to wall).
8...10	Minimum of 152 mm (6.0 in.) at the top of the enclosure. Additionally, allow a minimum of 102 mm (4.0 in.) on each side OR 152 mm (6.0 in.) in the back. Flange Mount - Minimum of 102 mm (4.0 in.) on each side.

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Dimensions and Weights

Frames 0…3 – IP20, NEMA / UL Type 1



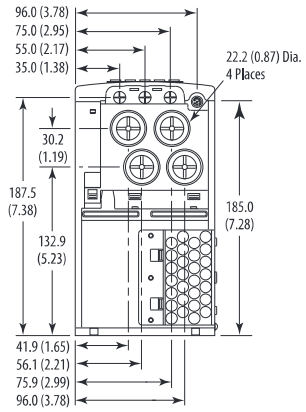
Frame	A	B	C	D	E	Weight (1) kg (lbs.)	
						Drive	Drive & Packaging
0	110.0 (4.33)	336.0 (13.23)	200.0 (7.87)	80.0 (3.15)	320.0 (12.60)	5.22 (11.5)	8.16 (18)
1	135.0 (5.31)	336.0 (13.23)	200.0 (7.87)	105.0 (4.13)	320.0 (12.60)	7.03 (15.5)	9.98 (22)
2	222.0 (8.74)	342.5 (13.48)	200.0 (7.87)	192.0 (7.56)	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)	495.0 (19.49)	18.55 (40.9)	22.68 (50)

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

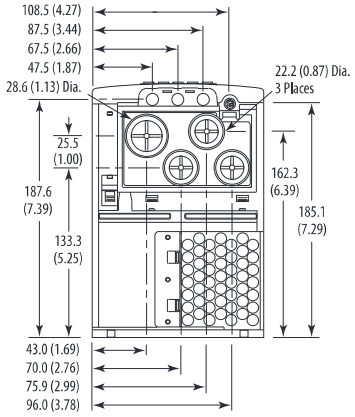
Dimensions are in millimeters and (inches)

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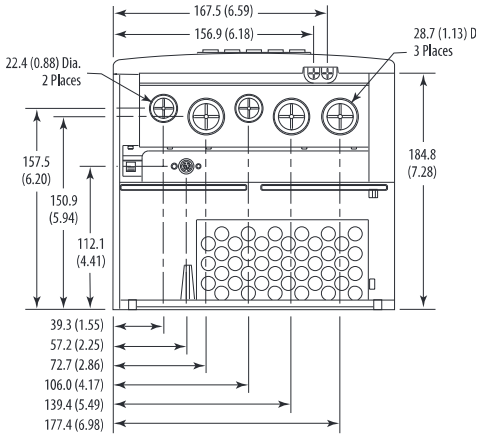
Frame 0



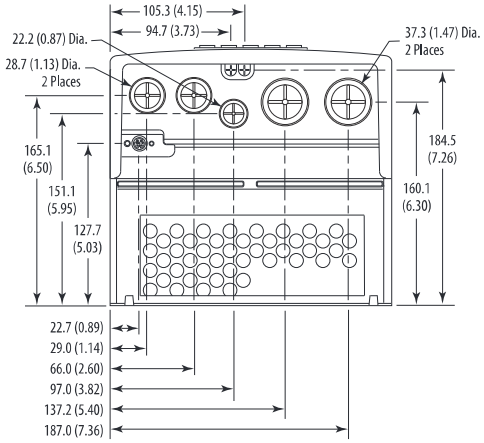
Frame 1



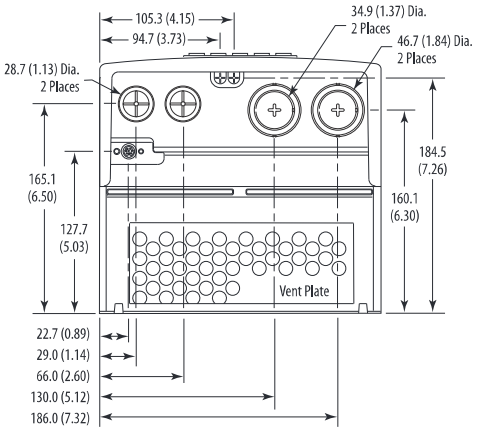
Frame 2



Frame 3
All *except* 50 Hp, 480V (37 kW, 400V)

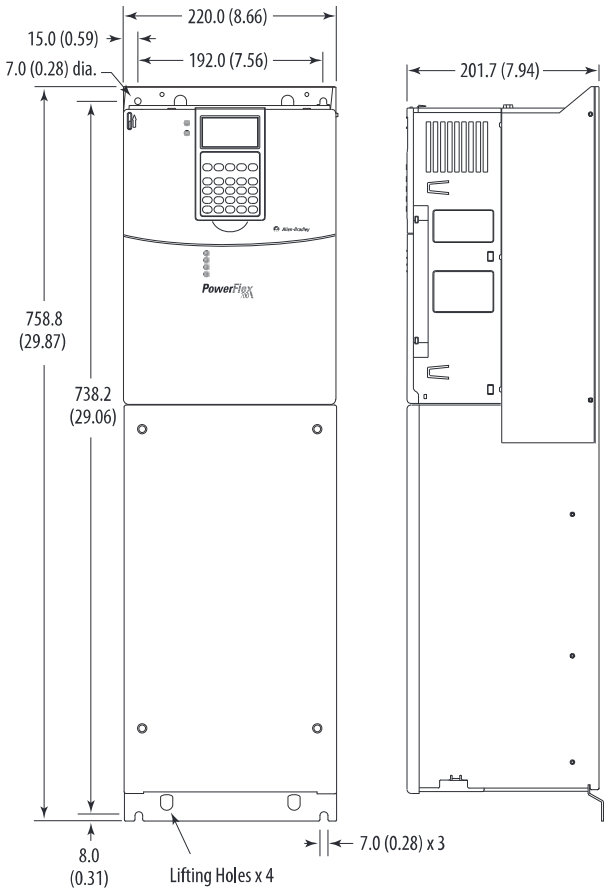


Frame 3
50 Hp, 480V (37 kW, 400V) Normal Duty Drive



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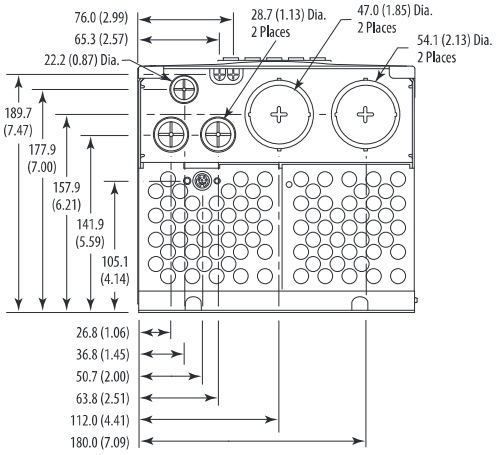
Frame 4 – IP20, NEMA / UL Type 1



Dimensions are in millimeters and (inches)

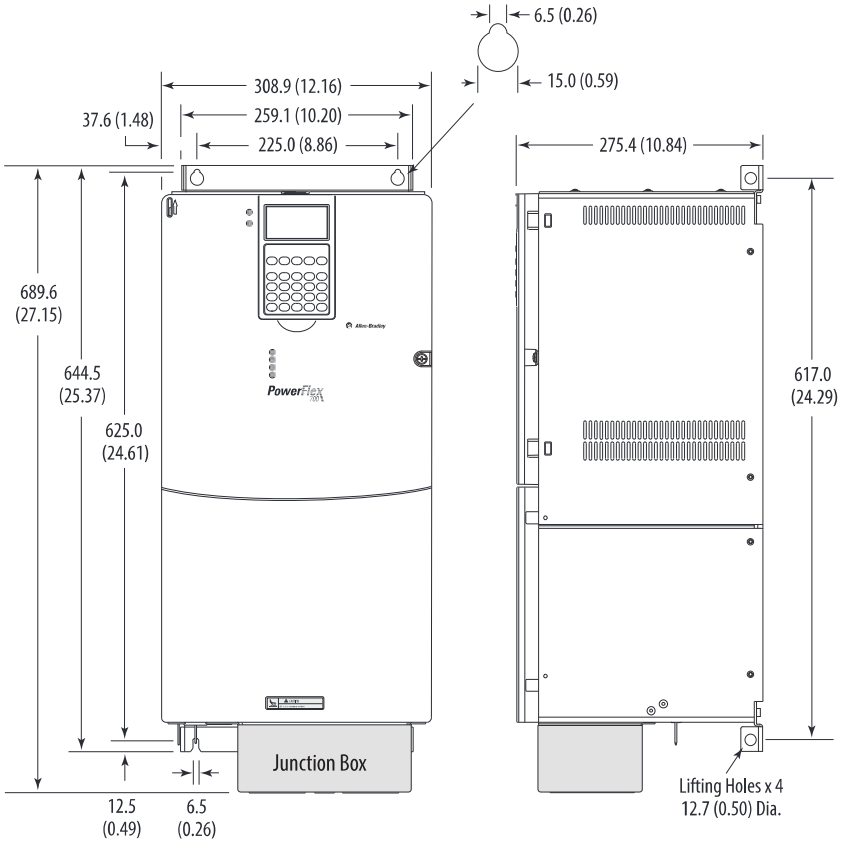
Frame	Approx. Weight (1) kg (lbs.)	
	Drive	Drive & Packaging
4	24.49 (54.0)	29.03 (64.0)

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



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Frame 5 – IP20, NEMA / UL Type 1

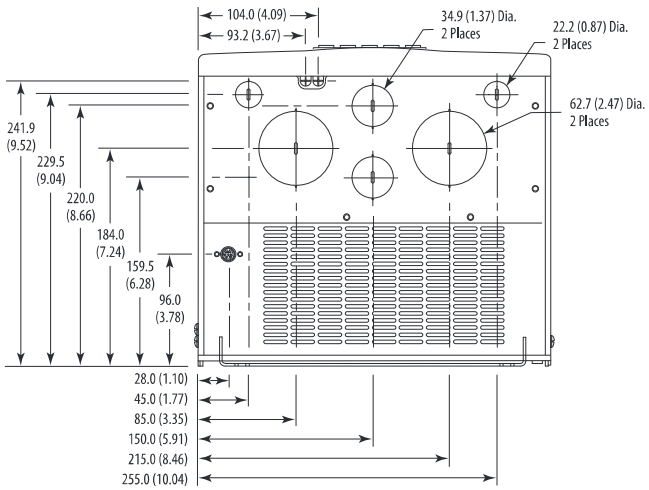


Dimensions are in millimeters and (inches)

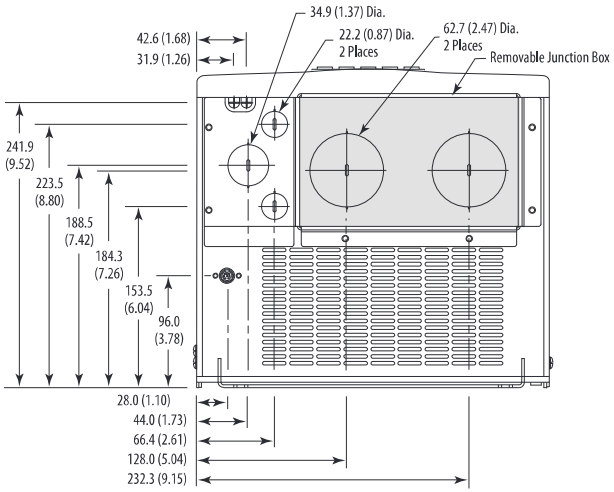
Frame	Approx. Weight (1) kg (lbs.)	
	Drive	Drive & Packaging
5	37.19 (82.0)	49.50 (109.0)

(1) Weights include HIM and Standard I/O. Add 2.70 kg (6.0 lbs.) for the 20BC140 drive.

30 kW, 208V (40 Hp, 240V)
55 kW, 400V (75 Hp, 480V)
45/55/75 kW, 690V (75 Hp, 600V)

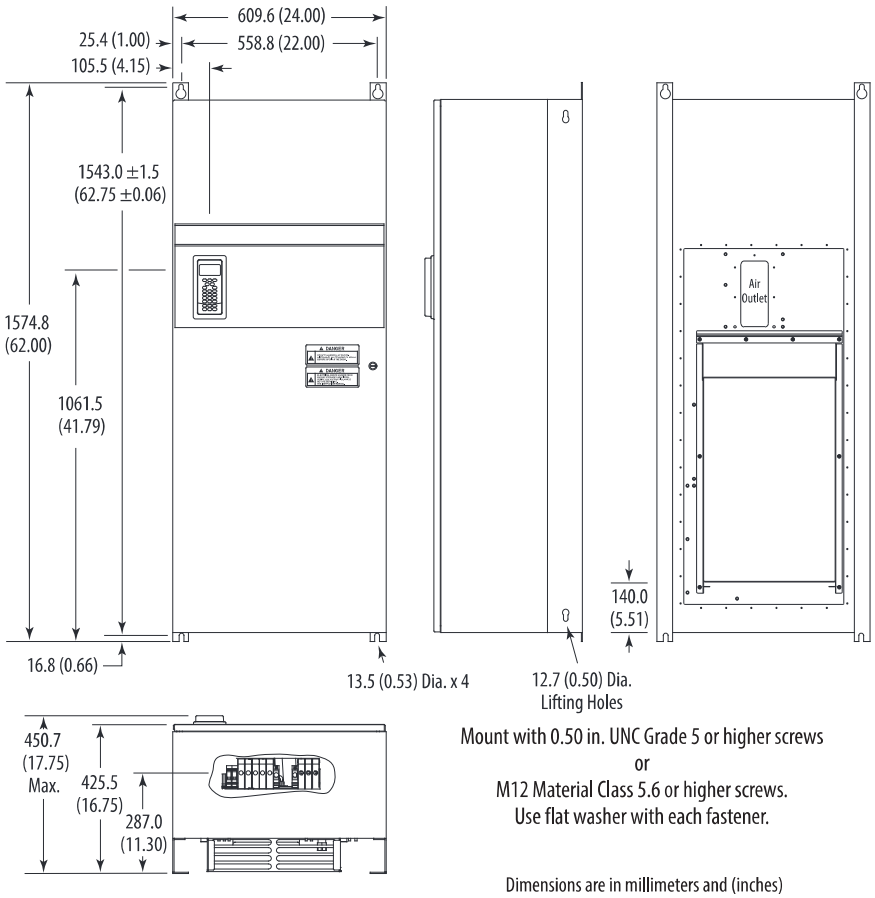


37 kW, 208V (50 Hp, 240V)
75 kW, 400V (100 Hp, 480V)
90kW, 690V (100 Hp, 600V)



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Frame 5 – IP54, NEMA Type 12 Standalone (400…690V drives only)

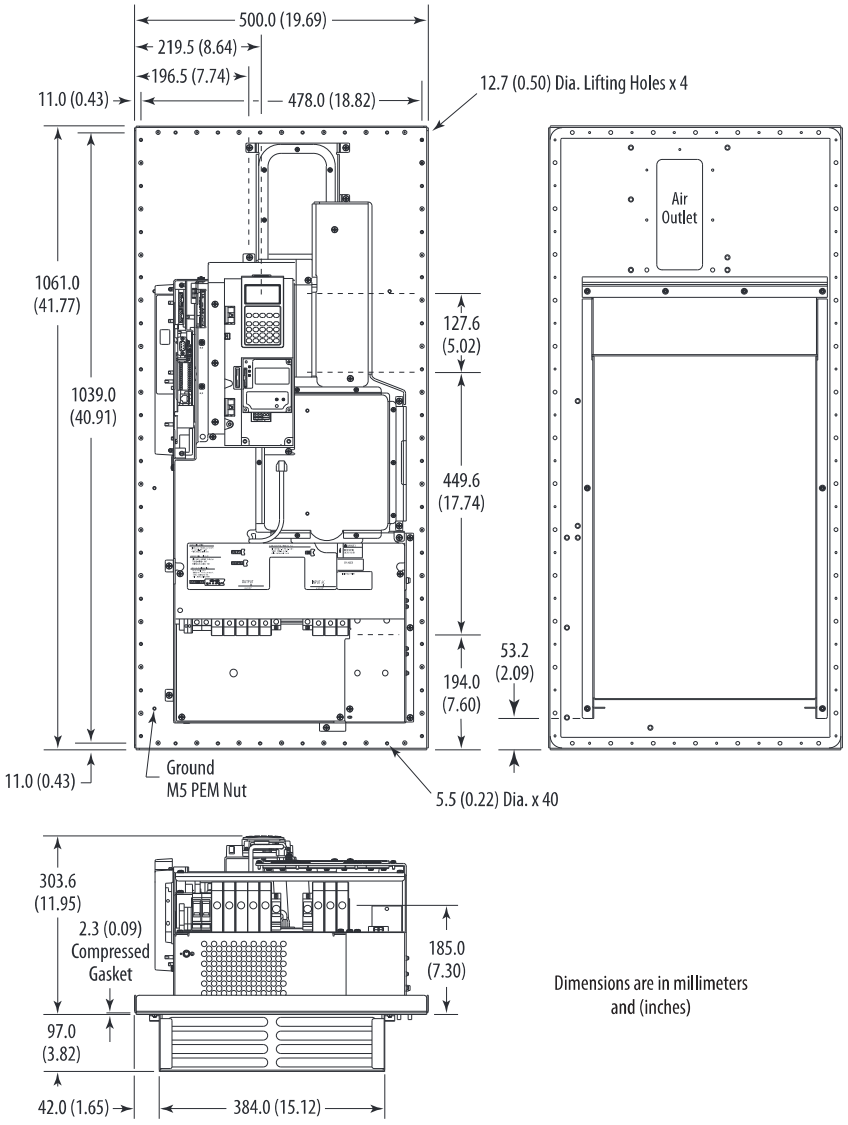


Frame	Description	Approx. Weight (1) kg (lbs.)	
		Drive	Drive & Packaging
5	Standalone	102.51 (226.0)	154.68 (341.0)

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

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Frame 5 – IP54, NEMA Type 12 Flange Mount (400…690V drives only)

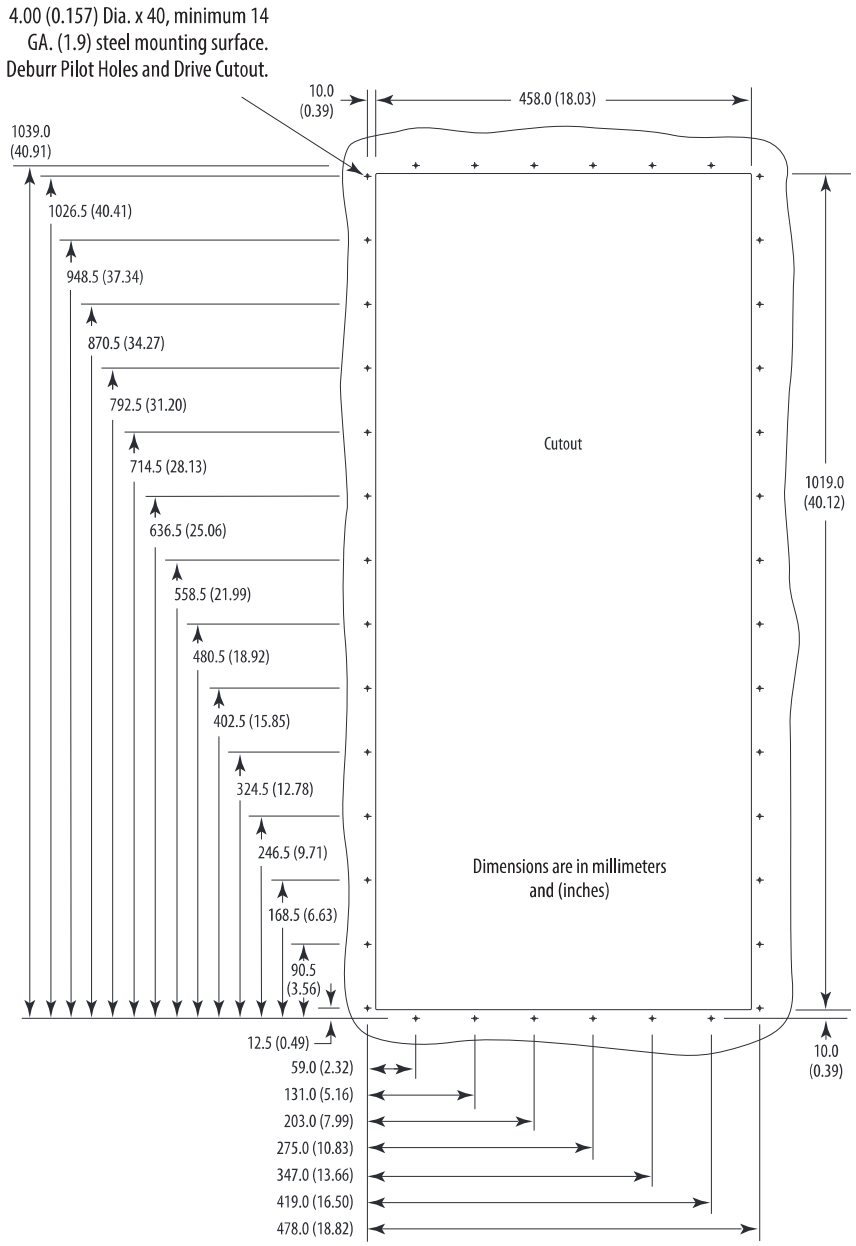


Frame	Description	Approx. Weight (1) kg (lbs.)	
		Drive	Drive & Packaging
5	Flange Mount	61.69 (136.0)	81.65 (180.0)

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

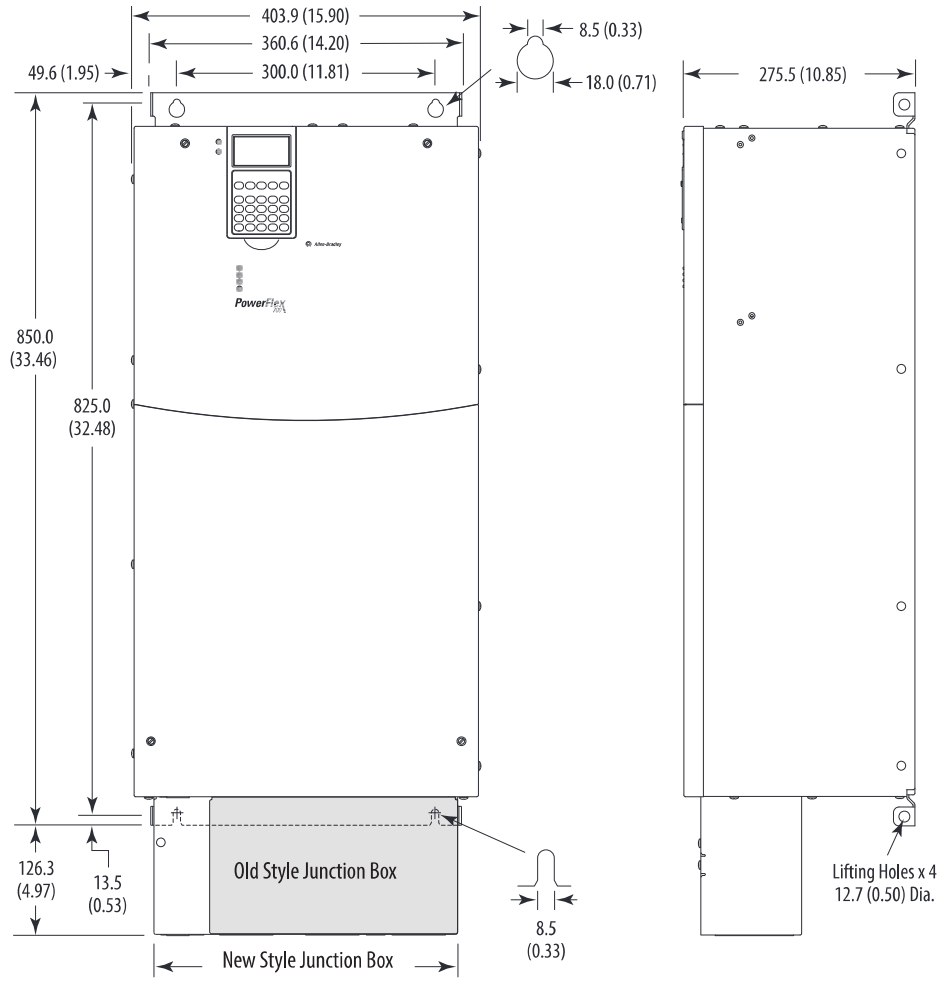
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Frame 5 – Flange Mount Cutout



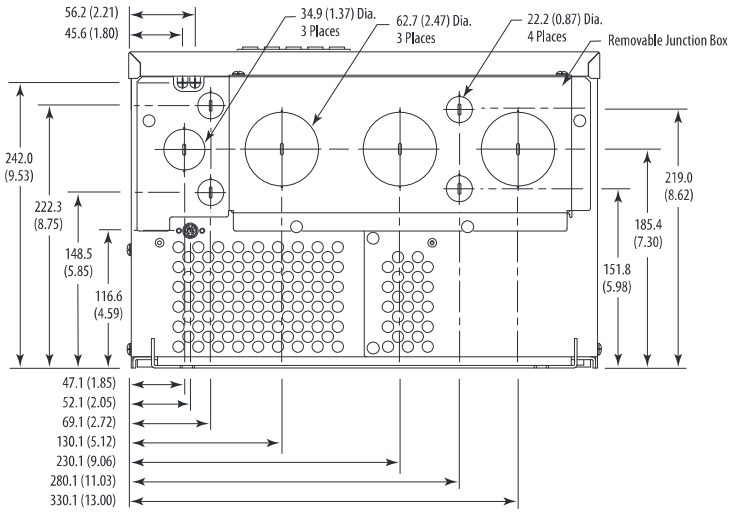
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Frame 6 – IP20, NEMA / UL Type 1



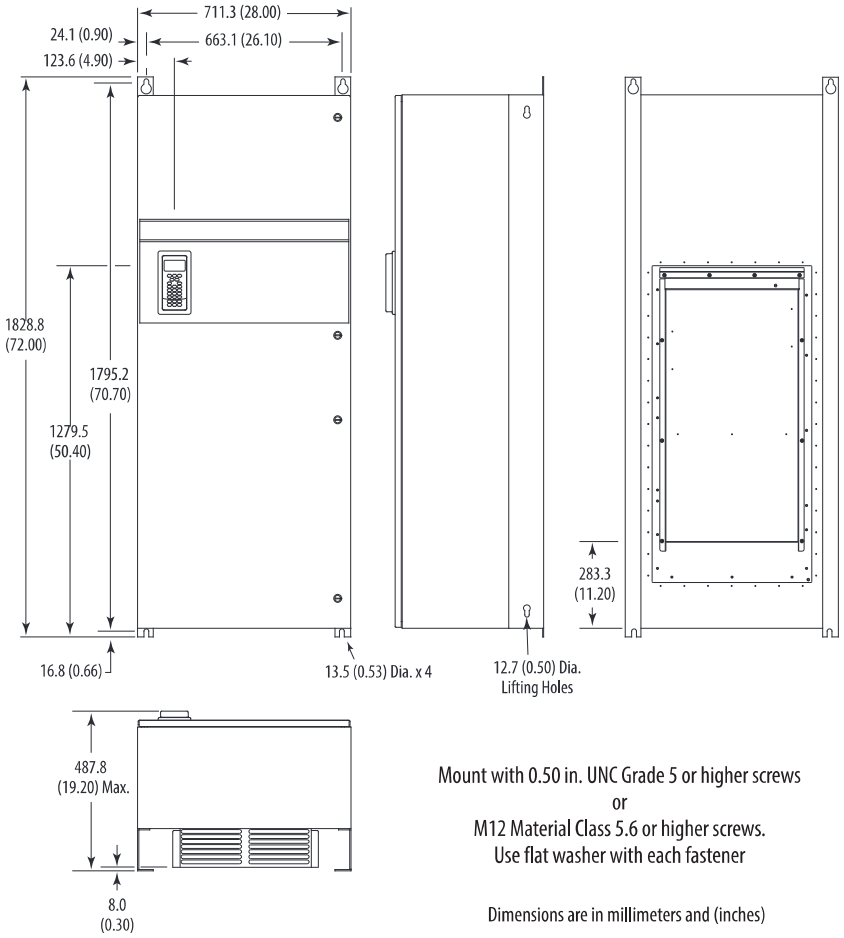
Frame	Approx. Weight (1) kg (lbs.)	
	Drive	Drive & Packaging
6	71.44 (157.5)	100.9 (222.0)

(1) Weights include HIM and Standard I/O. Add 13.60 kg (30.0 lbs.) for; 20BB260, 20BC260 and 20BD248.



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Frame 6 – IP54, NEMA Type 12 Standalone (400…690V drives only)

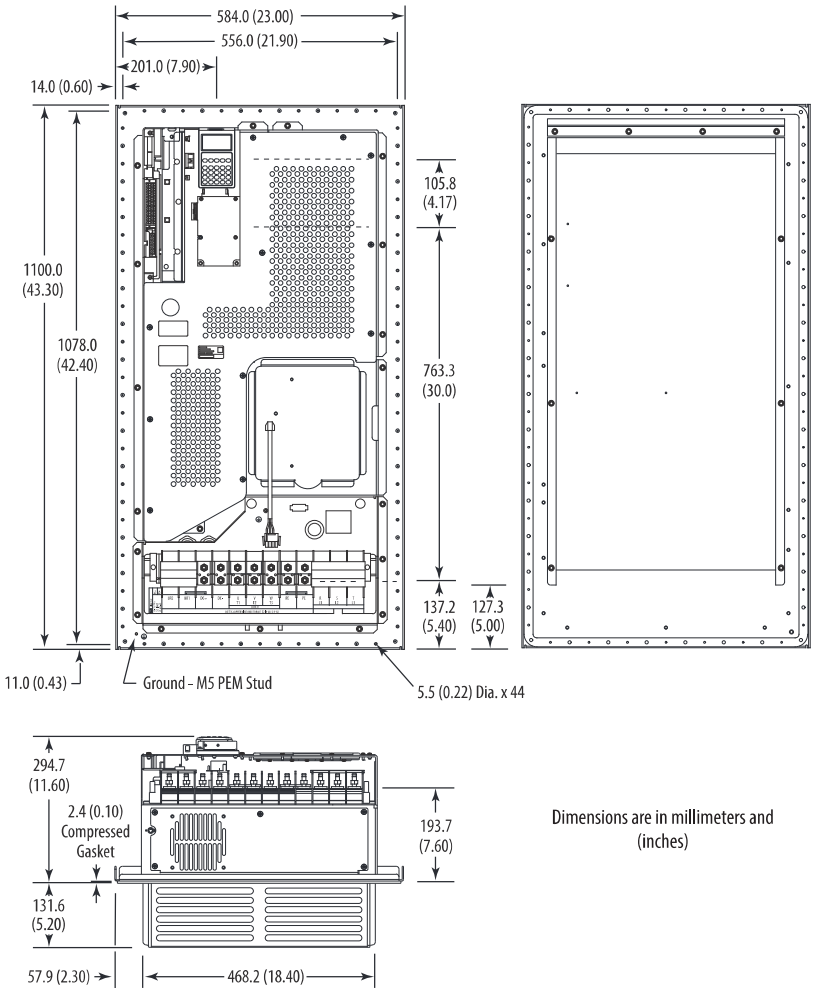


Frame	Description	Approx. Weight (1) kg (lbs.)	
		Drive	Drive & Packaging
6	Standalone	176.90 (390.0)	229.07 (505.0)

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

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Frame 6 – IP54, NEMA Type 12 Flange Mount (400…690V drives only)



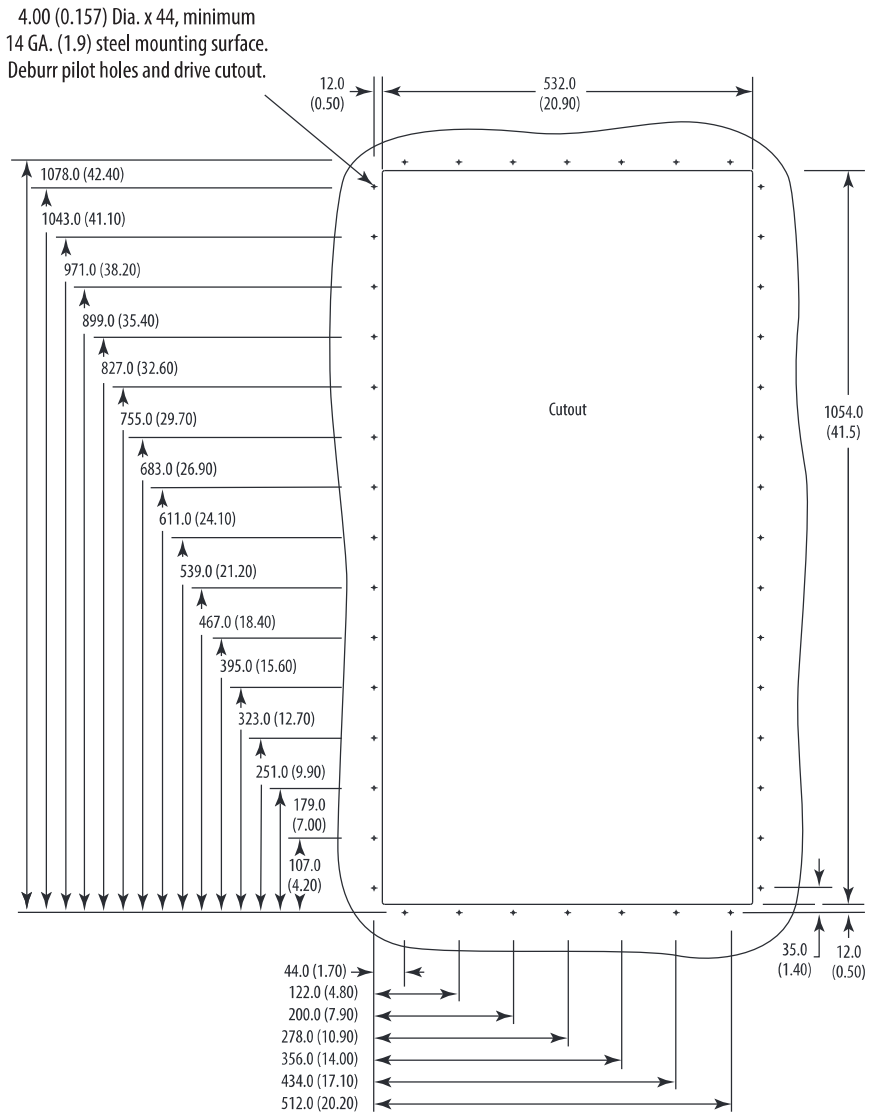
Dimensions are in millimeters and (inches)

Frame	Description	Approx. Weight (1) kg (lbs.)	
		Drive	Drive & Packaging
6	Flange Mount	99.79 (220.0)	119.75 (264.0)

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

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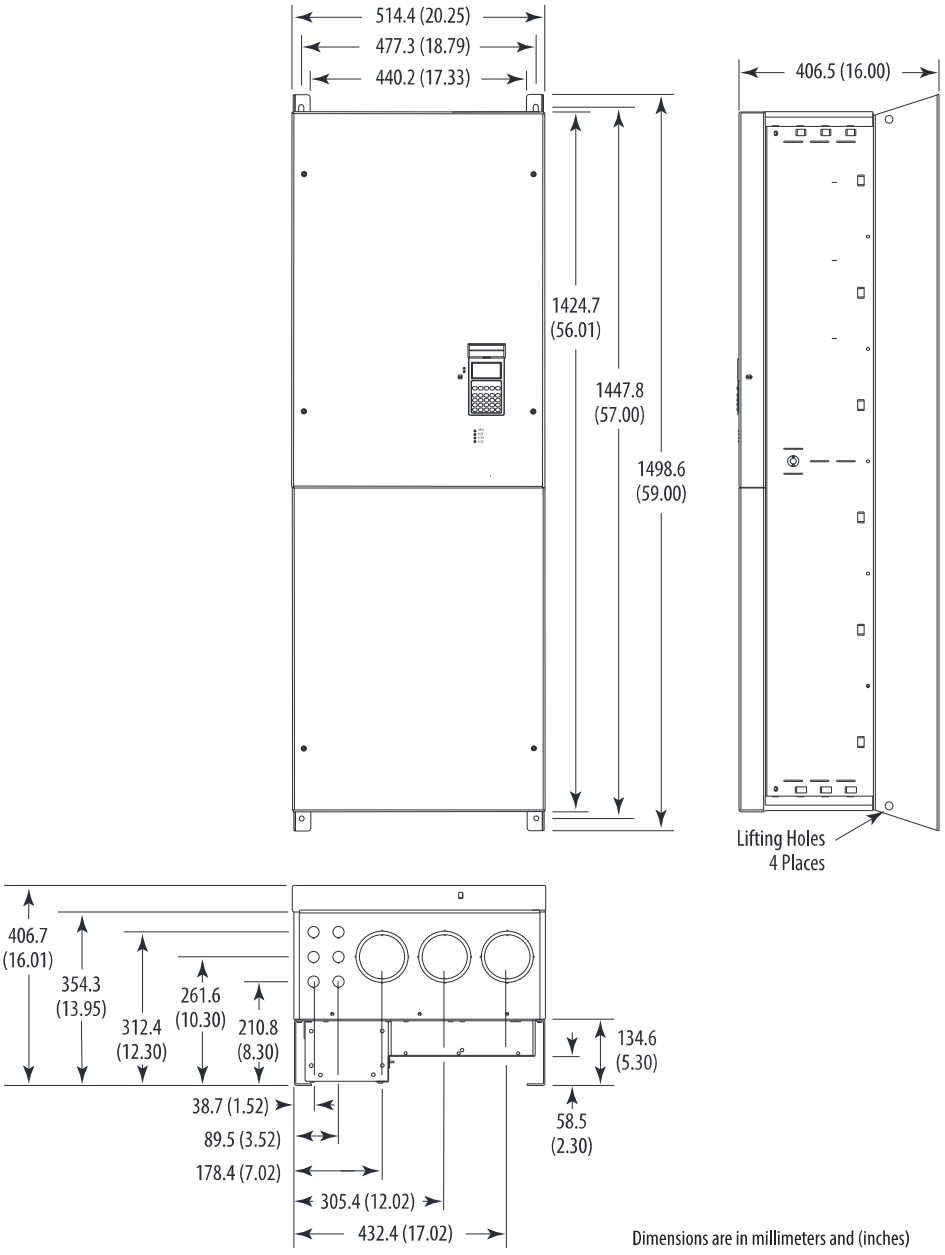
Frame 6 – Flange Mount Cutout



Dimensions are in millimeters and (inches)

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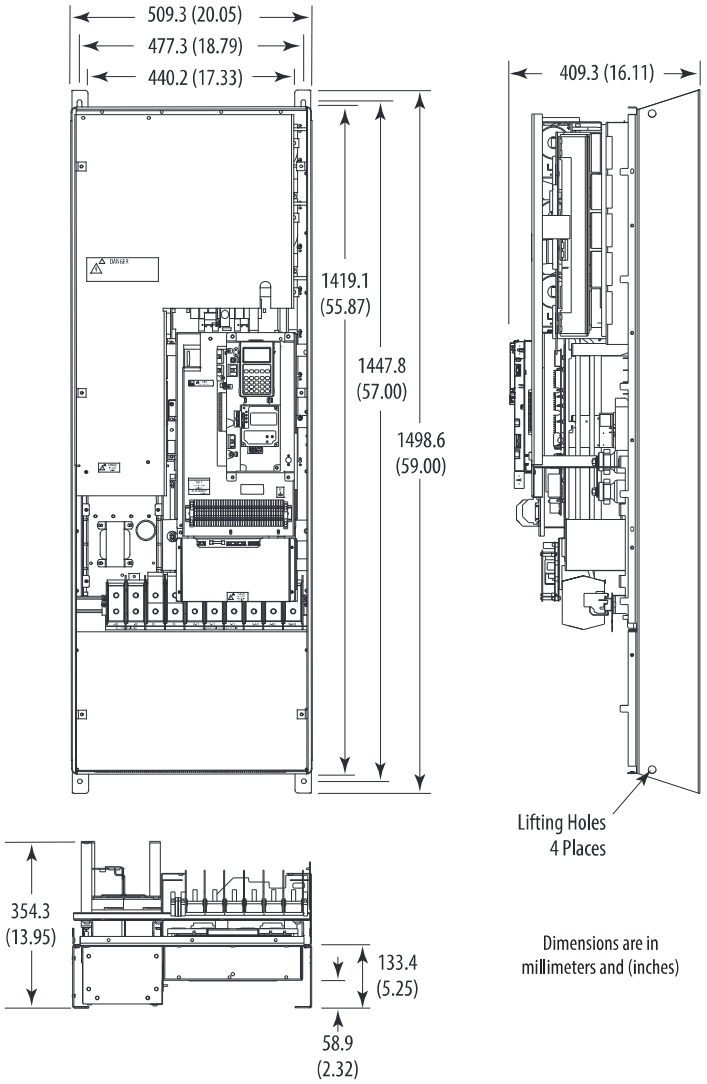
Frame 7 – IP20, NEMA / UL Type 1



Approx. Weight kg (lbs.)	
Drive	**Drive & Packaging**
170 (375)	196 (433)

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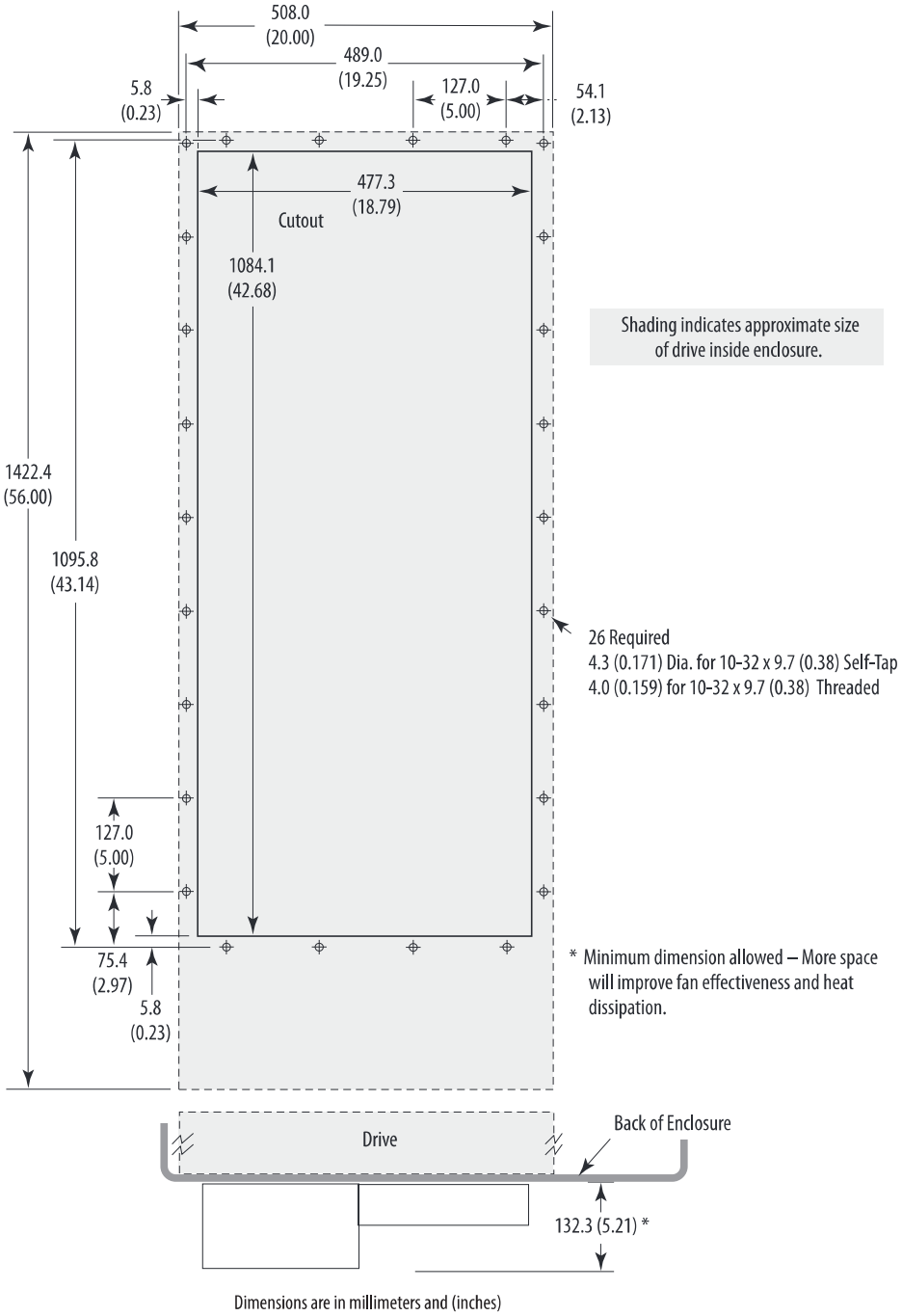
Frame 7 – IP00, NEMA / UL Type Open



Approx. Weight kg (lbs.)	
Drive	**Drive & Packaging**
147 (324)	173 (382)

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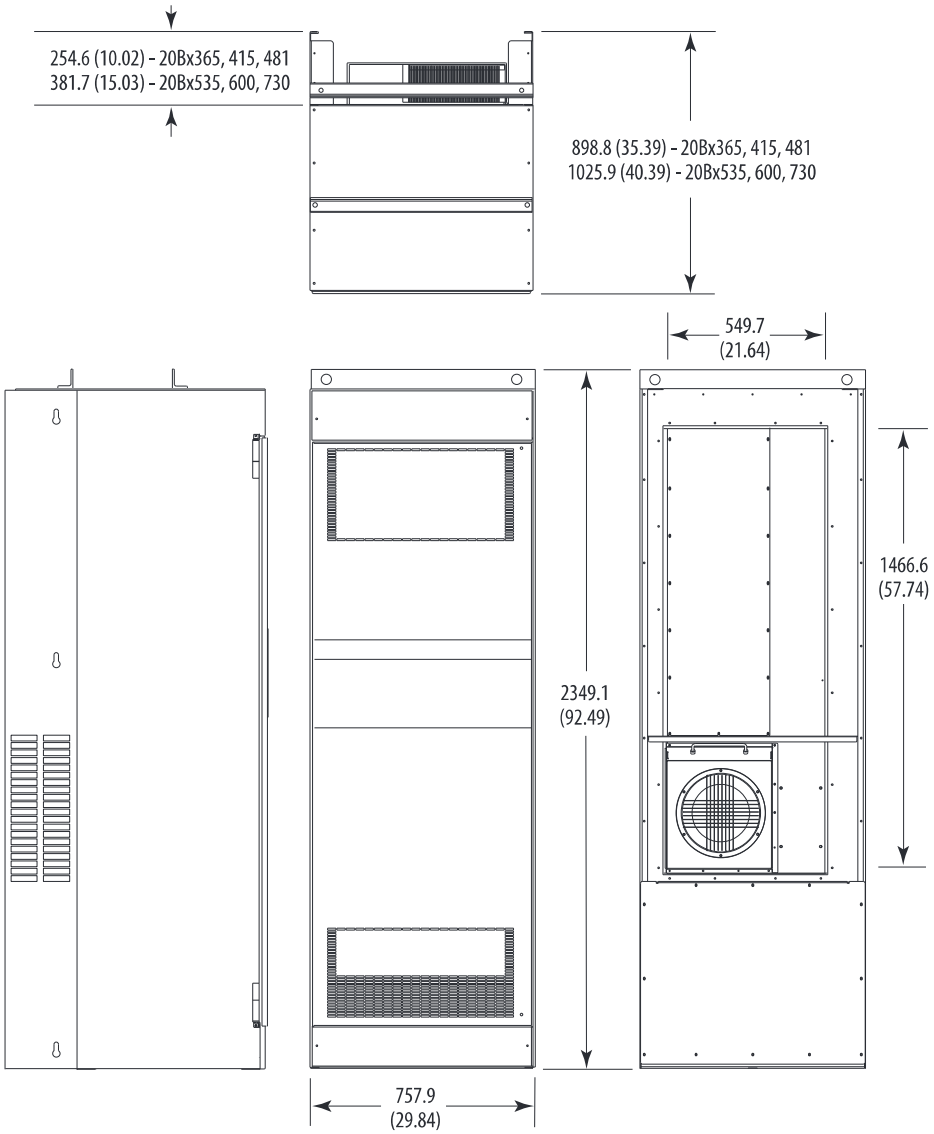
Frame 7 – Flange Mount Cutout



IMPORTANT Use gasket kit catalog number SK-G1-GASKET1-F7 with user supplied IP54, NEMA / UL Type 12 enclosure.

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Frames 8…9 – IP20, NEMA / UL Type 1

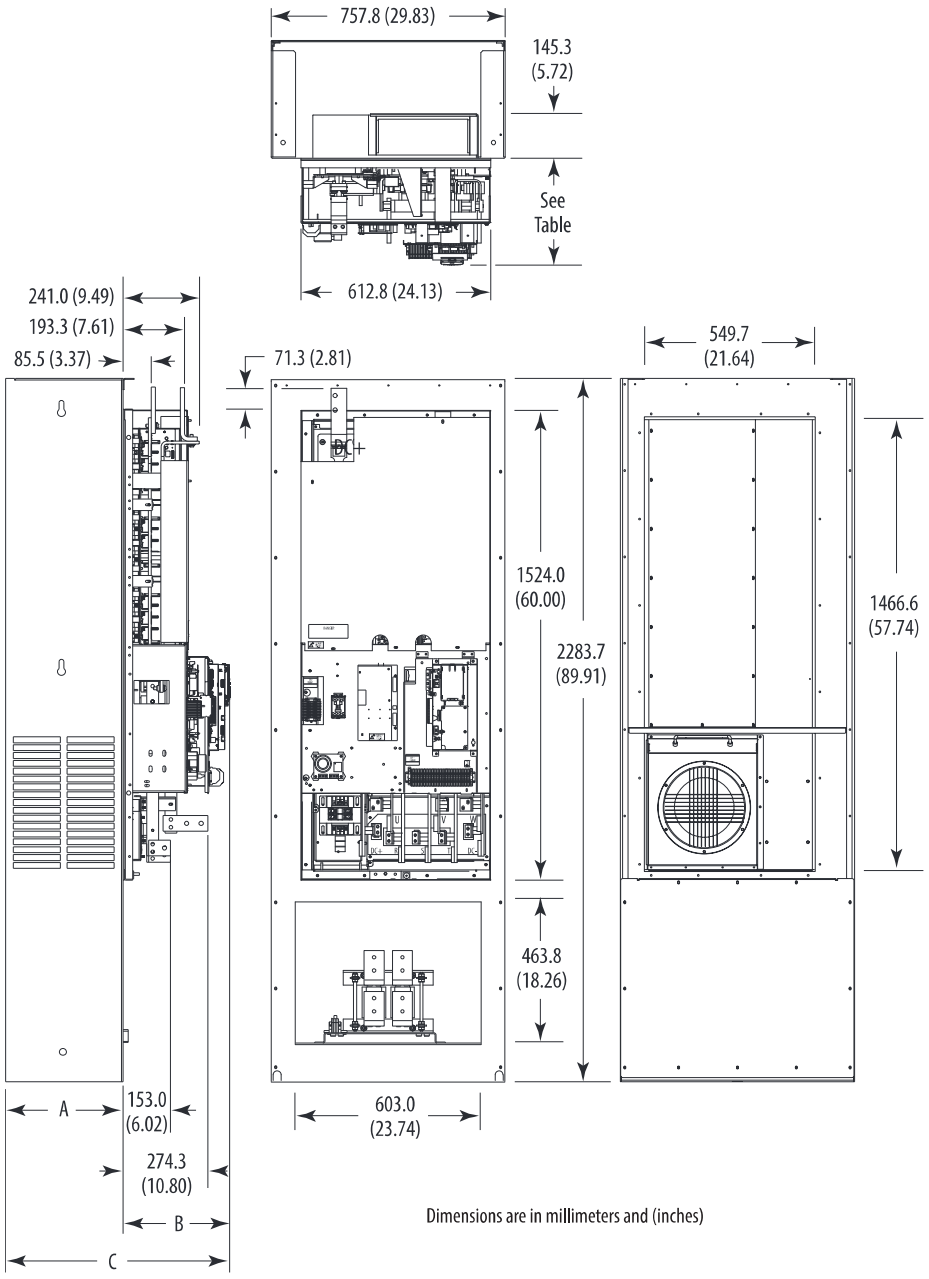


Dimensions are in millimeters and (inches)

Approx. Weight kg (lbs.)		
Frame	**Drive**	**Drive & Packaging**
8	509 (1122)	556 (1225)
9	526 (1159)	603 (1262)

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Frames 8…9 – IP00, NEMA / UL Type Open

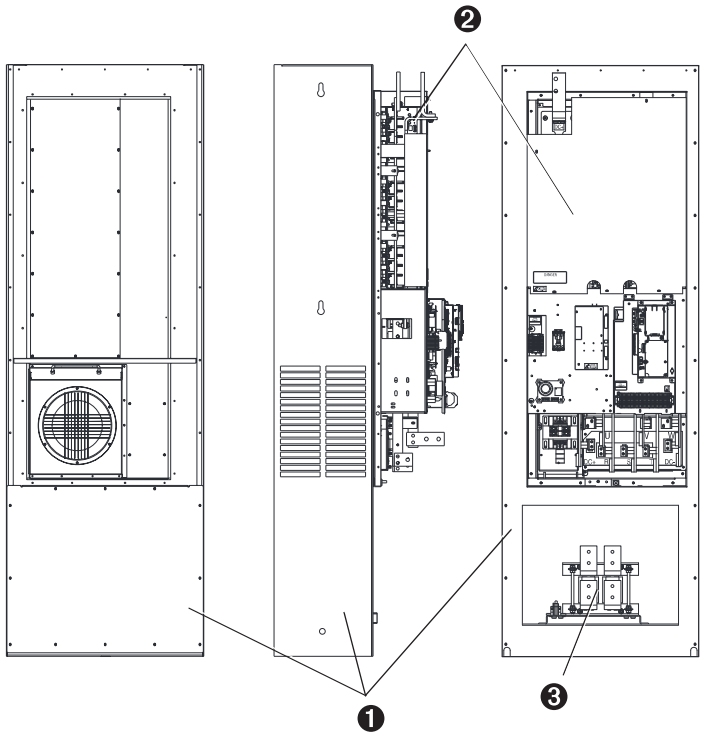


Dimensions are in millimeters and (inches)

Frame	Cat. No.	A	B	C	Approx. Weight kg (lbs.)	
					Drive	Drive & Packaging
8	20Bx365, 415, 481	254.6 (10.02)	345.3 (13.59)	599.4 (23.60)	384 (847)	431 (950)
	20Bx535, 600	381.7 (15.03)	345.5 (13.60)	726.6 (28.61)	384 (847)	431 (950)
9	20Bx730	381.1 (15.00)	345.3 (13.60)	771.9 (30.39)	401 (884)	448 (987)

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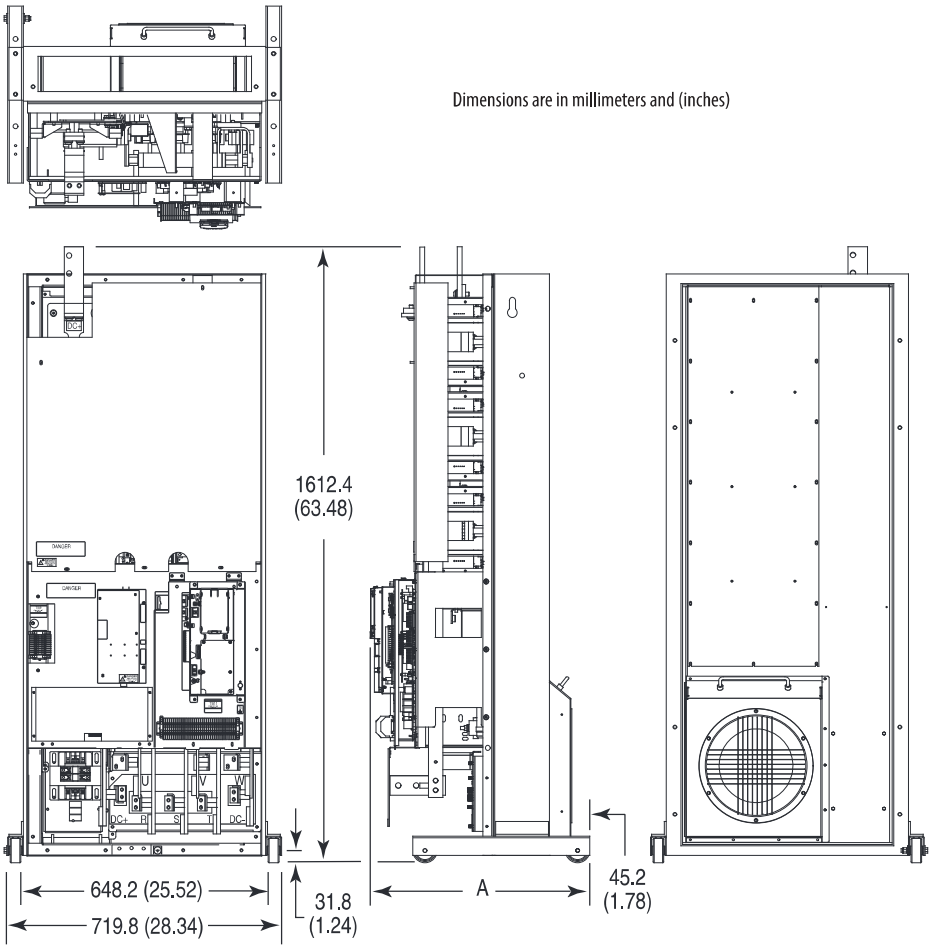
Frames 8…9 – Converting an IP00 Drive for Flange Mounting



No.	Component
❶	Remove these IP00 enclosure components.
❷	Drive assembly to be flange mounted.
❸	DC link choke - mounts separately in enclosure (see page 72 for dimensions) and is wired directly to drive.

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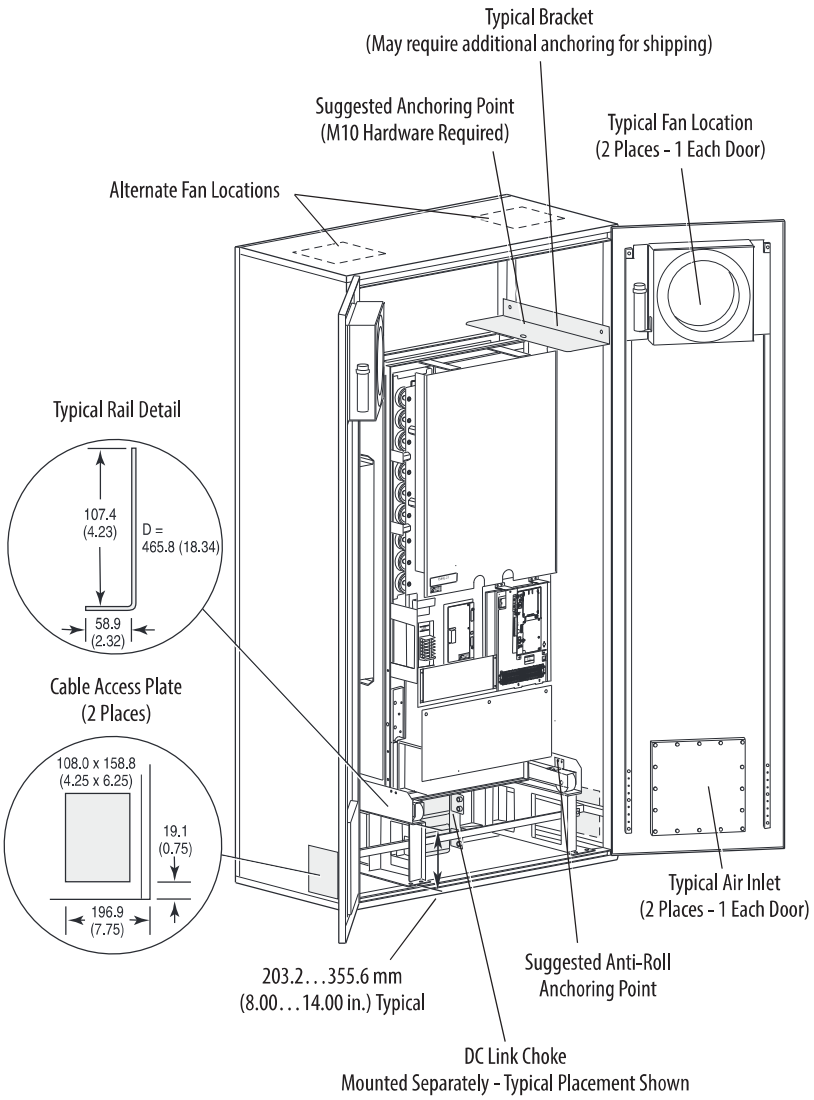
Frames 8…9 Roll-In – IP00, NEMA / UL Type Open



Frame	Cat. No.	A	Approx. Weight kg (lbs.)	
			Drive	Drive & Packaging
8	20Bx365, 415, 481	574.8 (22.63)	250 (552)	297 (655)
8	20Bx535, 600	574.8 (22.63)	250 (552)	297 (655)
9	20Bx730	594.3 (23.40)	267 (589)	314 (692)

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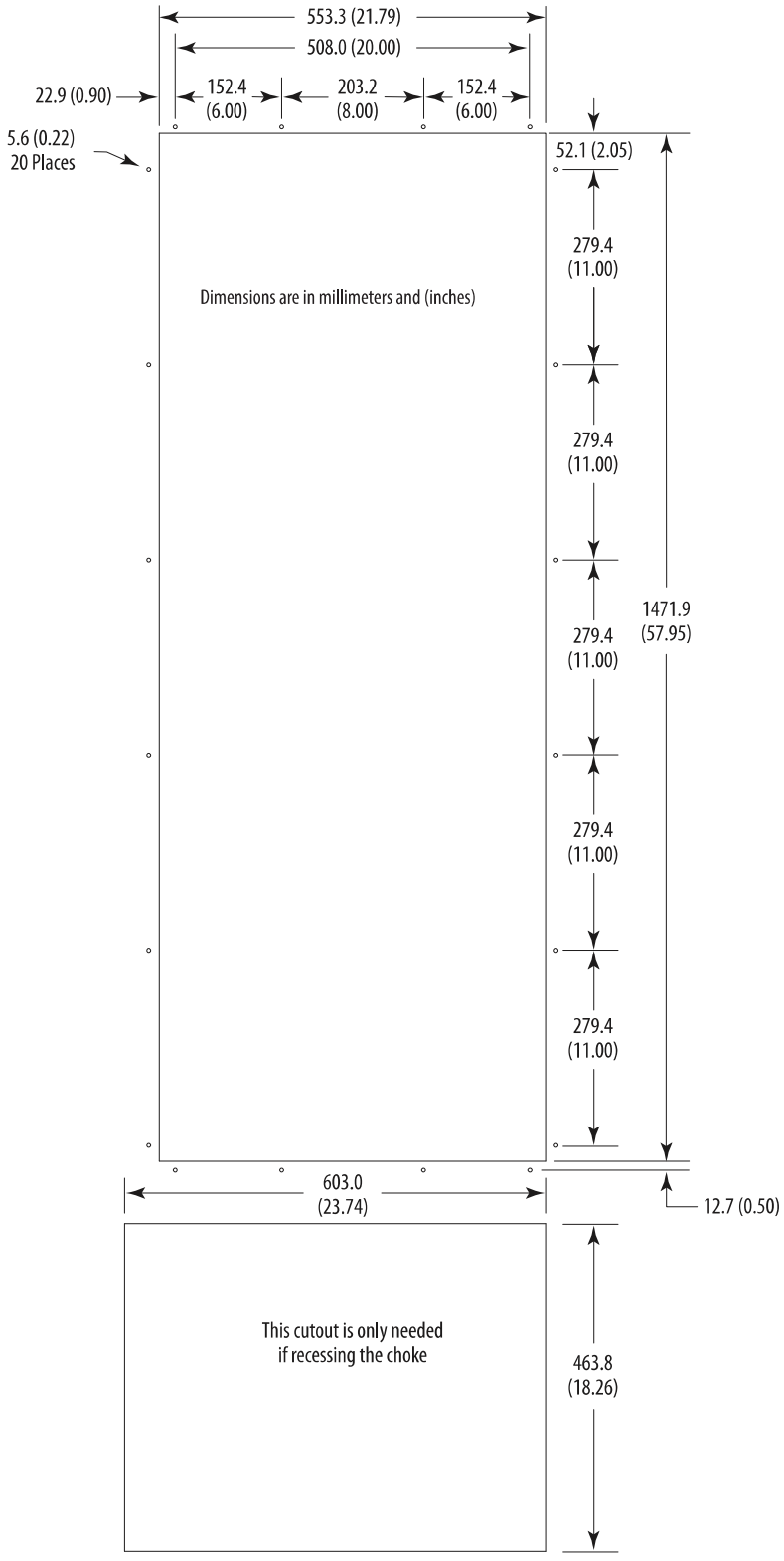
Frames 8…9 Roll-In Mounting Considerations



IMPORTANT This information illustrates how an open roll-in style drive could be mounted in a user supplied enclosure. Illustrations are intended only to identify structural mounting points and hardware shapes. You must design and fabricate steel components based on the actual mounting configuration, calculated loads and enclosure specifications. Minimum thickness of all parts = 4.6 mm (0.18 in.).

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Frames 8…9 Flange Mount Cutout

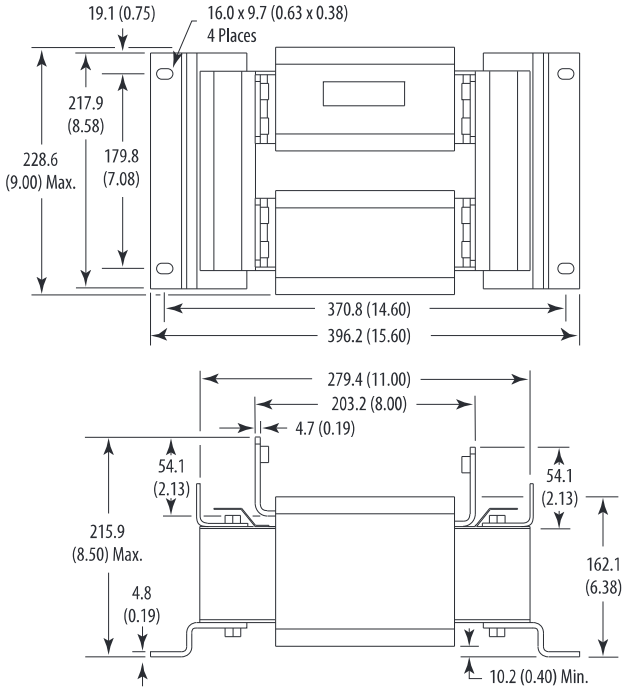


IMPORTANT Use gasket kit catalog number SK-G1-GASKET1-F89 with user supplied IP54, NEMA / UL Type 12 enclosure.

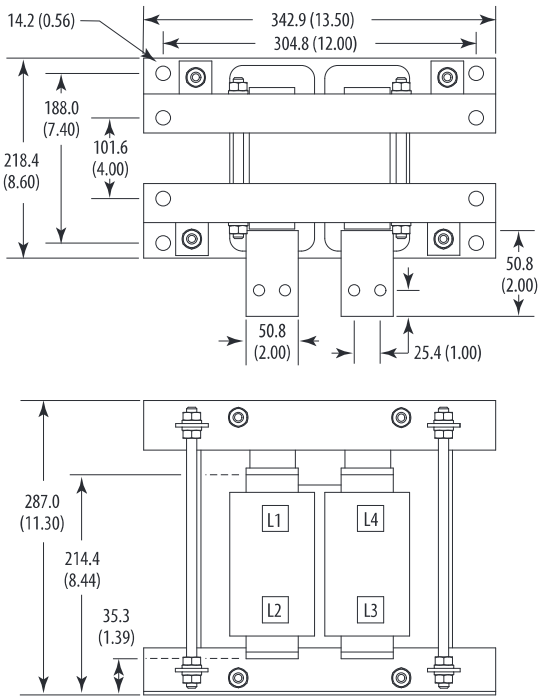
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DC Link Chokes

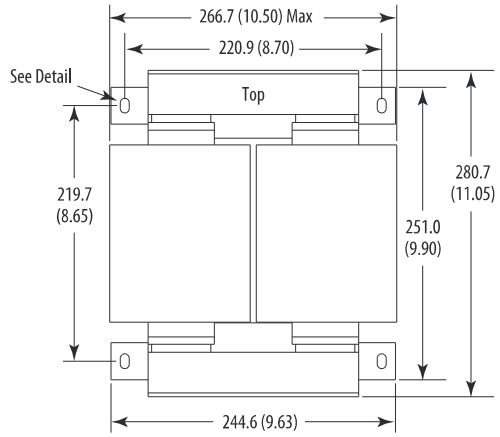
Frame 8

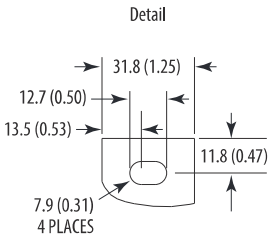


Frame 9

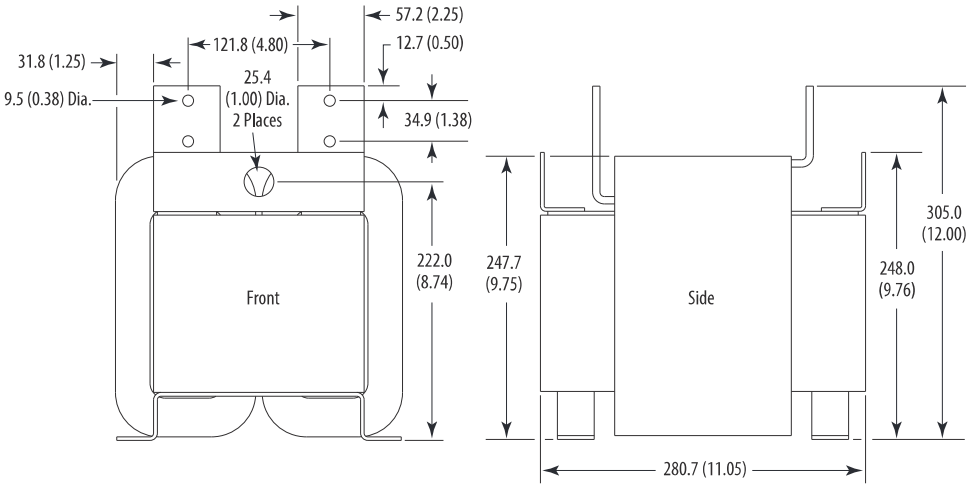


Frame 10



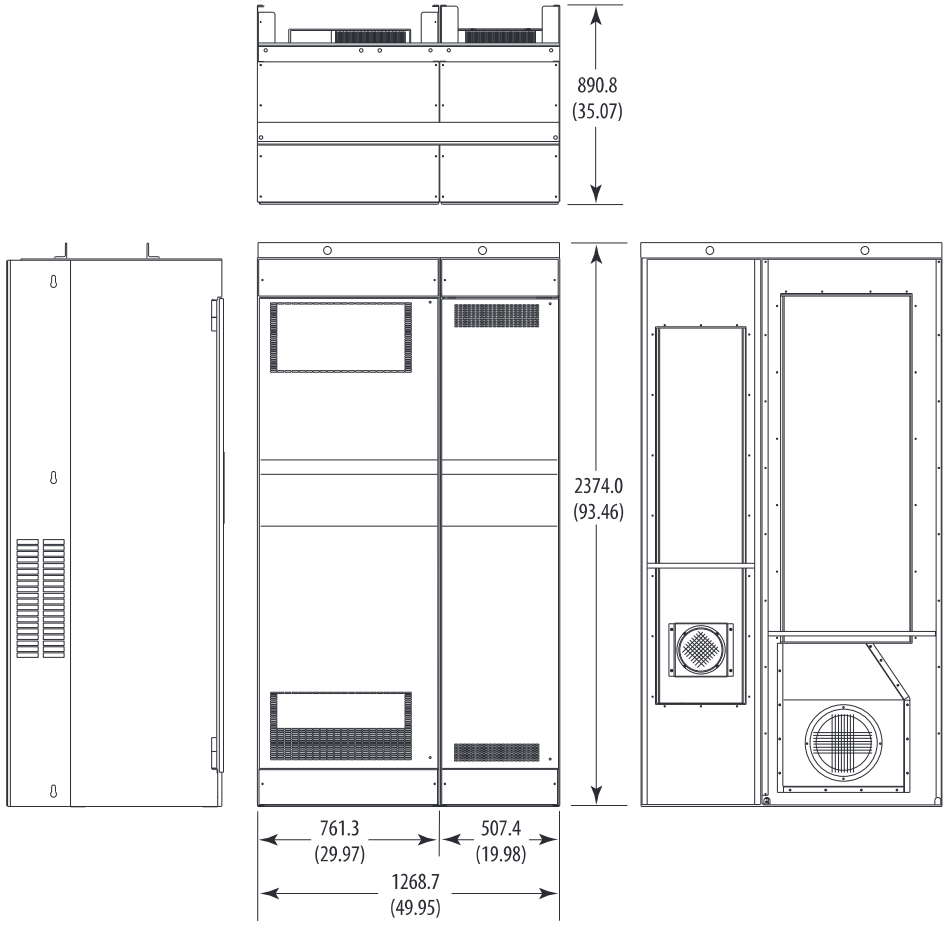


Dimensions are in millimeters and (inches)



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Frame 10 – IP20, NEMA / UL Type 1
AC Input Shown, for DC Input Dimensions use the Inverter (Left) Bay



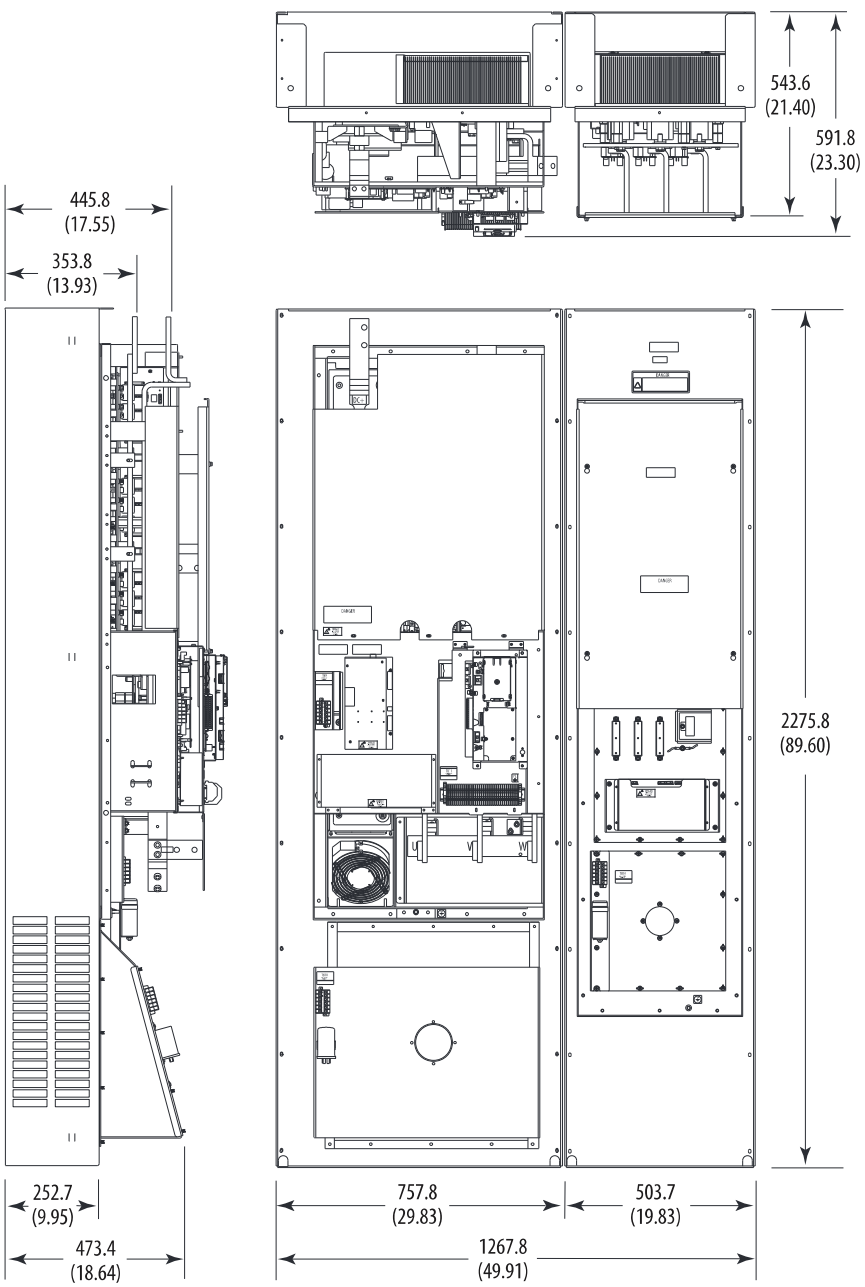
Dimensions are in millimeters and (inches)

Approx. Weight kg (lbs.)		
Type	**Drive**	**Drive & Packaging**
DC Input	468 (1032)	515 (1135)
AC Input	867 (1912)	958 (2112)

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Frame 10 – IP00, NEMA / UL Type Open

AC Input Shown, for DC Input Dimensions use the Inverter (Left) Bay

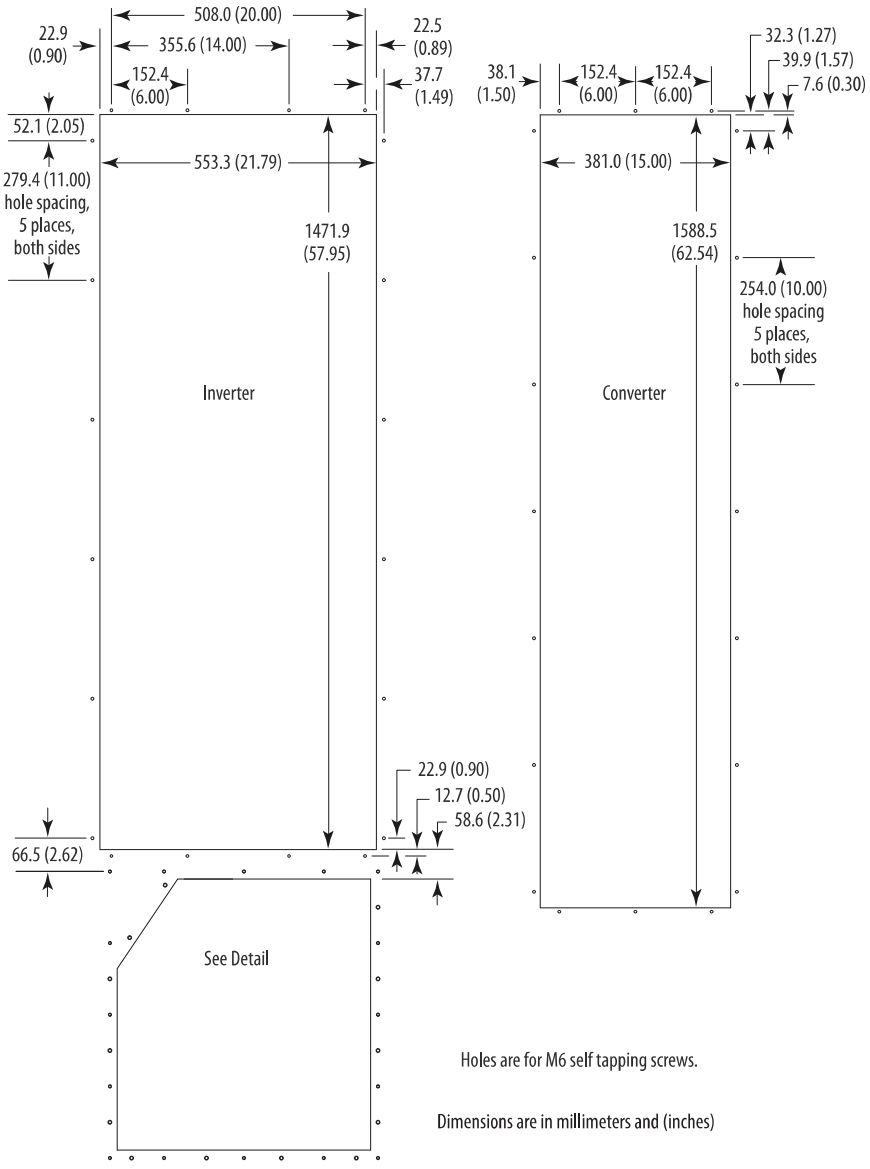


Dimensions are in millimeters and (inches)

Approx. Weight kg (lbs.)		
Type	**Drive**	**Drive & Packaging**
DC Input	305 (672)	352 (775)
AC Input	532 (1172)	623 (1372)

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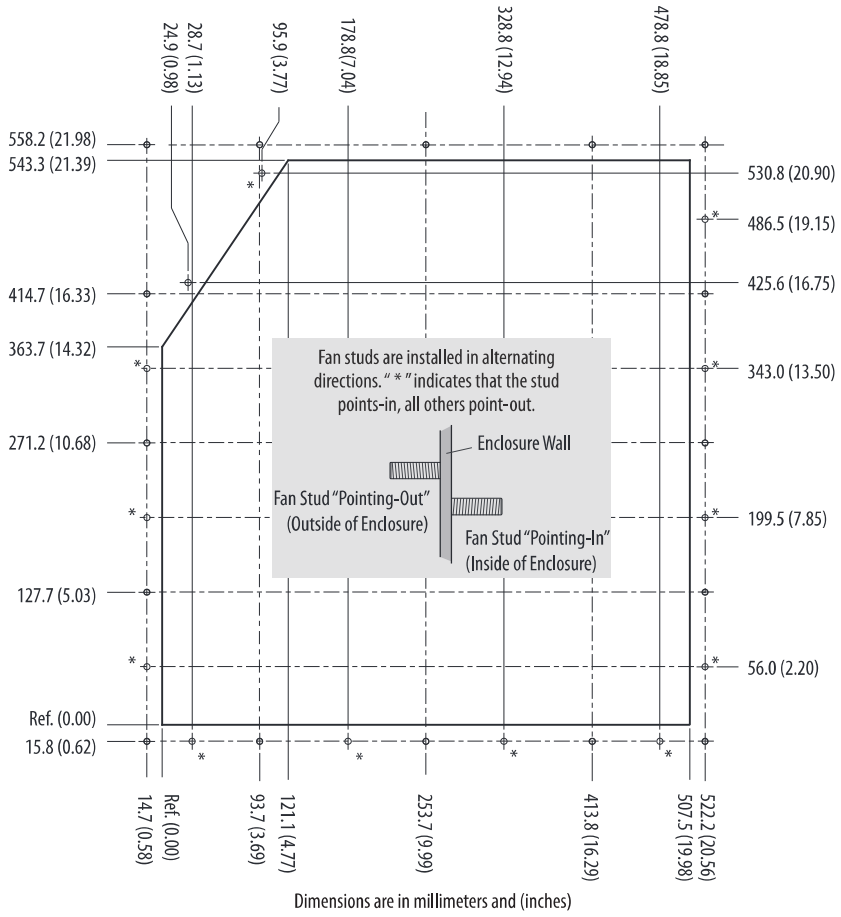
Frame 10 – Flange Mount Cutout



IMPORTANT Backplate and extension are a single piece. Drive chassis can be removed from backplate to mount in user supplied IP54, NEMA / UL Type 12 enclosure.

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Frame 10 – Flange Mount Cutout Detail



IMPORTANT Backplate and extension are a single piece. Drive chassis can be removed from backplate to mount in user supplied IP54, NEMA / UL Type 12 enclosure.

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PowerFlex 700 Packaged Drives

Product Description

PowerFlex 700 Packaged Drives are ideal for global Original Equipment Manufacturers (OEM) and end users with special installation needs. This program simplifies installation and start-up by allowing users to order drive packages that combine operator interface, control, communications and power options in pre-configured assemblies. Designed to meet customer demands for space savings, application flexibility and reliability, Packaged PowerFlex 700 AC drives offer a number of commonly requested pre-engineered options, as well as more complex custom-engineered packages.

Benefits

- Simplified installation and start-up by use of common options assembled at the factory.
- Drive functionality exceeds options offered with a standard drive.
- Multiple packaging options specific to customer needs.
- Pre-engineered options for easy order entry, consistent manufacturing, high quality and reduced deliveries.
- Selectable configurations to meet application requirements.

Features

- Standard PowerFlex 700 AC drives and drive-related options.
- Six pulse and multi-pulse.
- Tuned harmonic filters.
- Enclosure options: Type 1, Type 12 (fan and filter or convection/AC), and Type 4 (indoor).
- Pre-engineered options.
- Custom/engineered solutions.
- UL panel recognition from the factory for pre-engineered options.

Options

- Drive Input Protection
- Input/Output Contactors
- Input/Output Line Reactors
- Bypass
- Control Power
- Control Interface and Feedback
- Communication
- Human Interface Module (HIM)
- Motor Interface
- Door Mounted Operator Devices

Please contact your local distributor or sales office for product availability.

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Drive Options

Human Interface Modules







Description	Cat. No.
No HIM (Blank Plate), Handheld/Local (Drive Mount)	20-HIM-A0
LCD Display, Full Numeric Keypad, Handheld/Local (Drive Mount)	20-HIM-A3
Enhanced, LCD, Full Numeric Keypad, Handheld/Local (Drive Mount)	20-HIM-A6
Remote (Panel Mount) LCD Display, Full Numeric Keypad (1) (2)	20-HIM-C3S
Enhanced, LCD, Full Numeric Keypad ?‡	20-HIM-C6S

(1) IP66, NEMA Type 4X/12 - For indoor use only.

(2) Includes a 1202-C30 interface cable (3 meters) for connection to drive.

Human Interface Module Accessories

Description	Cat. No.
Bezel Kit for LCD HIMs, NEMA Type 1 (1)	20-HIM-B1
PowerFlex HIM Interface Cable, 1 m (39 in) (2)	20-HIM-H10
Comm Option Cable Kit (Male-Male) 0.33 Meters (1.1 Feet) 1 Meter (3.3 Feet) 3 Meter (9.8 Feet) 9 Meter (29.5 Feet)	 1202-C03 1202-C10 1202-C30 1202-C90
Cable Kit (Male-Female) (3) 0.33 Meters (1.1 Feet) 1 Meter (3.3 Feet) 3 Meter (9.8 Feet) 9 Meter (29.5 Feet)	 1202-H03 1202-H10 1202-H30 1202-H90
DPI Cable Kit with Connectors, Tools and 100 m (328 ft.) Cable	1202-CBL-KIT-100M
DPI Cable Connector Kit	1202-TB-KIT-SET
DPI/SCANport™ One toTwo Port Splitter Cable	1203-S03

(1) Includes a 1202-C30 interface cable (3 meters) for connection to drive.

(2) Required only when HIM is used as handheld or remote.

(3) Required in addition to 20-HIM-H10 for distances up to a total maximum of 10 Meters (32.8 Feet).

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Communication Option Kits and Accessories

Description	Cat. No.
BACnet® MS/TP RS485 Communication Adapter	20-COMM-B
ControlNet Communication Adapter (Coax)	20-COMM-C
DeviceNet Communication Adapter	20-COMM-D
EtherNet/IP™ Communication Adapter	20-COMM-E
Dual-port EtherNet/IP™ Communication Adapter	20-COMM-ER (2)
HVAC Communication Adapter (Only Modbus RTU can be used)	20-COMM-H
CANopen® Communication Adapter	20-COMM-K
LonWorks® Communication Adapter	20-COMM-L
Modbus/TCP Communication Adapter	20-COMM-M
PROFIBUS™ DP Communication Adapter	20-COMM-P
ControlNet Communication Adapter (Fiber)	20-COMM-Q
Remote I/O Communication Adapter	20-COMM-R (3)
RS485 DF1 Communication Adapter	20-COMM-S
External Communications Kit Power Supply	20-XCOMM-AC-PS1
DPI External Communications Kit	20-XCOMM-DC-BASE
External DPI I/O Option Board (1)	20-XCOMM-IO-OPT1
Compact I/O™ Module (3 Channel)	1769-SM1
Serial Null Modem Adapter	1203-SNM
Smart Self-powered Serial Converter (RS232) includes 1203-SFC and 1202-C10 Cables	1203-SSS
Universal Serial Bus™ (USB) Converter includes 2 m USB, 20-HIM-H10 & 22-HIM-H10 Cables	1203-USB

(1) For use only with DPI External Communications Kits 20-XCOMM-DC-BASE.

(2) Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

(3) This item has Silver Series status. For information, refer to http://www.ab.com/silver.

Feedback Options

Description	Cat. No.
12V/5V Encoder (1)	20B-ENC-1

(1) Vector Control only.

Other Options

Description	Cat. No.
Removable I/O Terminal Block	SK-G9-TB1-S1
Removable Encoder Terminal Block	SK-G9-TB1-ENC1

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PowerFlex 700 Control Option Kits

Control with I/O	Factory Installed Cat. Code # (2)	Cat. No.
Vector Control - 24V DC with: (1)		
60 Hz Maximum	NNAD	20B-VECT-C0AD
82 Hz Maximum	NNAX	20B-VECTB-C0AX
Cascading Fan/Pump Control	NNAE	20B-VECT-C0AE
Pump Off (for Pump Jack)	NNBA	20B-VECTB-C0BA
Vector Control - 115V AC (1)	D (3)	20B-VECTB-D0
Vector Control - 115V AC with: (1)		
60 Hz Maximum	NNAD	20B-VECT-D0AD
82 Hz Maximum	NNAX	20B-VECTB-D0AX
Cascading Fan/Pump Control	NNAE	20B-VECT-D0AE
Pump Off (for Pump Jack)	NNBA	20B-VECT-D0BA

(1) Vector Control option utilizes DPI Only.

(2) This code is entered at the end of the drive catalog number (positions 17…20).

(3) This code is entered at position 15 of the drive catalog number.

Internal Dynamic Brake Resistor Kits

These resistors have a limited duty cycle. Refer to the PowerFlex Dynamic Braking Selection Guide to determine if an internal resistor will be sufficient for your application. An external resistor may be required.

Drive Input Voltage	Brake Resistance Ohms	Frame	Cat. No.
208…240V AC	62	0	20BB-DB1-0
	62	1 (except 7.5 Hp)	20BB-DB1-1
	22	1 (7.5 Hp)	20BB-DB2-1
	22	2	20BB-DB1-2
380…600V AC	115	0	20BD-DB1-0
	115	1	20BD-DB1-1
	68	2	20BD-DB1-2

Terminators

Description (1)	Cat. No.
for use with 3.7 kW (5 Hp) & below drives	1204-TFA1
for use with 1.5 kW (2 Hp) & up drives	1204-TFB2

(1) Refer to Appendix A of the Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication Drives-IN001 for selection information.

Reflected Wave Reduction Modules w/Common Mode Choke

Description (1)	Cat. No.
17A with Common Mode Choke	1204-RWC-17-A

(1) Refer to Appendix A of the Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication Drives-IN001 for selection information.

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Isolation Transformers

For installations that have specific types of AC supply configurations or require drive protection due to AC line disturbances, isolation transformers are available.

IP32 (NEMA/UL Type 3R)

Motor Rating kW (Hp)	240V, 60 Hz, Three-Phase, 240V Primary & 240V Secondary	460V, 60 Hz, Three-Phase, 460V Primary & 460V Secondary	575V, 60 Hz, Three-Phase, 575V Primary & 575V Secondary
	Cat. No.	Cat. No.	Cat. No.
0.25 (0.33)	1321-3TW005-AA	1321-3TW005-BB	–
0.37 (0.5)	1321-3TW005-AA	1321-3TW005-BB	–
0.55 (0.75)	1321-3TW005-AA	1321-3TW005-BB	–
0.75 (1.0)	1321-3TW005-AA	1321-3TW005-BB	1321-3TW005-CC
1.1 (1.5)	1321-3TW005-AA	1321-3TW005-BB	–
1.5 (2.0)	1321-3TW005-AA	1321-3TW005-BB	1321-3TW005-CC
2.2 (3.0)	1321-3TW005-AA	1321-3TW005-BB	1321-3TW005-CC
4.0 (5.0)	1321-3TW007-AA	1321-3TW007-BB	1321-3TW007-CC
5.5 (7.5)	1321-3TW011-AA	1321-3TW011-BB	1321-3TW011-CC
7.5 (10)	1321-3TW014-AA	1321-3TW014-BB	1321-3TW014-CC
11 (15)	1321-3TW020-AA	1321-3TW020-BB	1321-3TW020-CC
15 (20)	1321-3TW027-AA	1321-3TW027-BB	1321-3TW027-CC
18.5 (25)	1321-3TW034-AA	1321-3TW034-BB	1321-3TW034-CC
22 (30)	1321-3TW040-AA	1321-3TW040-BB	1321-3TW040-CC
30 (40)	1321-3TW051-AA	1321-3TW051-BB	1321-3TW051-CC
37 (50)	1321-3TH063-AA	1321-3TH063-BB	1321-3TH063-CC
45 (60)	1321-3TH075-AA	1321-3TH075-BB	1321-3TH075-CC
55 (75)	1321-3TH093-AA	1321-3TH093-BB	1321-3TH093-CC
75 (100)	–	1321-3TH118-BB	1321-3TH118-CC
90 (125)	–	1321-3TH145-BB	1321-3TH145-CC
110 (150)	–	1321-3TH175-BB	1321-3TH175-CC
149 (200)	–	1321-3TH220-BB	1321-3TH220-CC
187 (250)	–	1321-3TH275-BB	1321-3TH275-CC
224 (300)	–	1321-3TH330-BB	1321-3TH330-CC
261 (350)	–	1321-3TH440-BB	1321-3TH440-CC
298 (400)	–	1321-3TH440-BB	1321-3TH440-CC
336 (450)	–	1321-3TH550-BB	1321-3TH550-CC
373 (500)	–	1321-3TH550-BB	1321-3TH550-CC
448 (600)	–	1321-3TH660-BB	1321-3TH660-CC
485 (650)	–	–	1321-3TH770-CC
522 (700)	–	1321-3TH770-BB	1321-3TH770-CC

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Input/Output Line Reactors

For impedance matching, protection from AC line disturbances or motor protection, reactors are available for both the input and output sides of the drive.

240V, 60 Hz, Three-Phase, 3% Impedance

			Input Line Reactor[1]		Output Line Reactor[1]	
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)
Drive Cat. No.	Duty	Hp	Cat. No.	Cat. No.	Cat. No.	Cat. No.
20BB2P2	Heavy Duty	0.33	1321-3R2-D	1321-3RA2-D	1321-3R2-D	1321-3RA2-D
20BB2P2	Normal Duty	0.5	1321-3R2-D	1321-3RA2-D	1321-3R2-D	1321-3RA2-D
20BB4P2	Heavy Duty	0.75	1321-3R4-A	1321-3RA4-A	1321-3R4-A	1321-3RA4-A
20BB4P2	Normal Duty	1	1321-3R4-A	1321-3RA4-A	1321-3R4-A	1321-3RA4-A
20BB6P8	Heavy Duty	1.5	1321-3R8-B	1321-3RA8-B	1321-3R8-A	1321-3RA8-A
20BB6P8	Normal Duty	2	1321-3R8-A	1321-3RA8-A	1321-3R8-A	1321-3RA8-A
20BB9P6	Heavy Duty	2	1321-3R8-A	1321-3RA8-A	1321-3R12-A	1321-3RA12-A
20BB9P6	Normal Duty	3	1321-3R12-A	1321-3RA12-A	1321-3R12-A	1321-3RA12-A
20BB015	Heavy Duty	3	1321-3R12-A	1321-3RA12-A	1321-3R18-A	1321-3RA18-A
20BB015	Normal Duty	5	1321-3R18-A	1321-3RA18-A	1321-3R18-A	1321-3RA18-A
20BB022	Heavy Duty	5	1321-3R18-A	1321-3RA18-A	1321-3R25-A	1321-3RA25-A
20BB022	Normal Duty	7.5	1321-3R25-A	1321-3RA25-A	1321-3R25-A	1321-3RA25-A
20BB028	Heavy Duty	7.5	1321-3R25-A	1321-3RA25-A	1321-3R35-A	1321-3RA35-A
20BB028	Normal Duty	10	1321-3R35-A	1321-3RA35-A	1321-3R35-A	1321-3RA35-A
20BB042	Heavy Duty	10	1321-3R35-A	1321-3RA35-A	1321-3R45-A	1321-3RA45-A
20BB042	Normal Duty	15	1321-3R45-A	1321-3RA45-A	1321-3R45-A	1321-3RA45-A
20BB052	Heavy Duty	15	1321-3R45-A	1321-3RA45-A	1321-3R55-A	1321-3RA55-A
20BB052	Normal Duty	20	1321-3R55-A	1321-3RA55-A	1321-3R55-A	1321-3RA55-A
20BB070	Heavy Duty	20	1321-3R55-A	1321-3RA55-A	1321-3R80-A	1321-3RA80-A
20BB070	Normal Duty	25	1321-3R80-A	1321-3RA80-A	1321-3R80-A	1321-3RA80-A
20BB080	Heavy Duty	25	1321-3R80-A	1321-3RA80-A	1321-3R80-A	1321-3RA80-A
20BB080	Normal Duty	30	1321-3R80-A	1321-3RA80-A	1321-3R80-A	1321-3RA80-A
20BB104	Heavy Duty	30	1321-3R80-A	1321-3RA80-A	1321-3R80-A	1321-3RA80-A
20BB104	Normal Duty	40	1321-3R100-A	1321-3RA100-A	1321-3R100-A	1321-3RA100-A
20BB130	Heavy Duty	40	1321-3R100-A	1321-3RA100-A	1321-3R100-A	1321-3RA100-A
20BB130	Normal Duty	50	1321-3R130-A	1321-3RA130-A	1321-3R130-A	1321-3RA130-A
20BB154	Heavy Duty	50	1321-3R130-A	1321-3RA130-A	1321-3R130-A	1321-3RA130-A
20BB154	Normal Duty	60	1321-3R160-A	1321-3RA160-A	1321-3R160-A	1321-3RA160-A
20BB192	Heavy Duty	60	1321-3R160-A	1321-3RA160-A	1321-3R160-A	1321-3RA160-A
20BB192	Normal Duty	75	1321-3R200-A	1321-3RA200-A	1321-3R200-A	1321-3RA200-A
20BB260	Heavy Duty	75	1321-3R200-A	1321-3RA200-A	1321-3R200-A	1321-3RA200-A
20BB260	Normal Duty	100	1321-3RB250-A	1321-3RAB250-A	1321-3RB250-A	1321-3RAB250-A

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

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240V, 60 Hz, Three-Phase, 5% Impedance

			Input Line Reactor[1]		Output Line Reactor[1]	
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)
Drive Cat. No.	Duty	Hp	Cat. No.	Cat. No.	Cat. No.	Cat. No.
20BB2P2	Heavy Duty	0.33	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A
20BB2P2	Normal Duty	0.5	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A
20BB4P2	Heavy Duty	0.75	1321-3R4-B	1321-3RA4-B	1321-3R4-B	1321-3RA4-B
20BB4P2	Normal Duty	1	1321-3R4-B	1321-3RA4-B	1321-3R4-B	1321-3RA4-B
20BB6P8	Heavy Duty	1.5	1321-3R8-B	1321-3RA8-B	1321-3R8-B	1321-3RA8-B
20BB6P8	Normal Duty	2	1321-3R8-B	1321-3RA8-B	1321-3R8-B	1321-3RA8-B
20BB9P6	Heavy Duty	2	1321-3R8-B	1321-3RA8-B	1321-3R12-B	1321-3RA12-B
20BB9P6	Normal Duty	3	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B
20BB015	Heavy Duty	3	1321-3R12-B	1321-3RA12-B	1321-3R18-B	1321-3RA18-B
20BB015	Normal Duty	5	1321-3R18-B	1321-3RA18-B	1321-3R18-B	1321-3RA18-B
20BB022	Heavy Duty	5	1321-3R18-B	1321-3RA18-B	1321-3R25-B	1321-3RA25-B
20BB022	Normal Duty	7.5	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B
20BB028	Heavy Duty	7.5	1321-3R25-B	1321-3RA25-B	1321-3R35-B	1321-3RA35-B
20BB028	Normal Duty	10	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B
20BB042	Heavy Duty	10	1321-3R35-B	1321-3RA35-B	1321-3R45-B	1321-3RA45-B
20BB042	Normal Duty	15	1321-3R45-B	1321-3RA45-B	1321-3R45-B	1321-3RA45-B
20BB052	Heavy Duty	15	1321-3R45-B	1321-3RA45-B	1321-3R55-B	1321-3RA55-B
20BB052	Normal Duty	20	1321-3R55-B	1321-3RA55-B	1321-3R55-B	1321-3RA55-B
20BB070	Heavy Duty	20	1321-3R55-B	1321-3RA55-B	1321-3R80-B	1321-3RA80-B
20BB070	Normal Duty	25	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BB080	Heavy Duty	25	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BB080	Normal Duty	30	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BB104	Heavy Duty	30	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BB104	Normal Duty	40	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B
20BB130	Heavy Duty	40	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B
20BB130	Normal Duty	50	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B
20BB154	Heavy Duty	50	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B
20BB154	Normal Duty	60	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B
20BB192	Heavy Duty	60	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B
20BB192	Normal Duty	75	1321-3R200-B	1321-3RA200-B	1321-3R200-B	1321-3RA200-B
20BB260	Heavy Duty	75	1321-3R200-B	1321-3RA200-B	1321-3R200-B	1321-3RA200-B
20BB260	Normal Duty	100	1321-3RB250-B	1321-3RAB250-B	1321-3RB250-B	1321-3RAB250-B

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

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480V, 60 Hz, Three-Phase, 3% Impedance

			Input Line Reactor[1]		Output Line Reactor[1]	
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)
Drive Cat. No.	Duty	Hp	Cat. No.	Cat. No.	Cat. No.	Cat. No.
20BD1P1	Heavy Duty	0.33	1321-3R1-C	1321-3RA1-C	1321-3R2-B	1321-3RA2-B
20BD1P1	Normal Duty	0.5	1321-3R1-C	1321-3RA1-C	1321-3R2-B	1321-3RA2-B
20BD2P1	Heavy Duty	0.75	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A
20BD2P1	Normal Duty	1	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A
20BD3P4	Heavy Duty	1.5	1321-3R4-C	1321-3RA4-C	1321-3R4-B	1321-3RA4-B
20BD3P4	Normal Duty	2	1321-3R4-B	1321-3RA4-B	1321-3R4-B	1321-3RA4-B
20BD5P0	Heavy Duty	2	1321-3R4-B	1321-3RA4-B	1321-3R8-C	1321-3RA8-C
20BD5P0	Normal Duty	3	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C
20BD8P0	Heavy Duty	3	1321-3R8-C	1321-3RA8-C	1321-3R8-B	1321-3RA8-B
20BD8P0	Normal Duty	5	1321-3R8-B	1321-3RA8-B	1321-3R8-B	1321-3RA8-B
20BD011	Heavy Duty	5	1321-3R8-B	1321-3RA8-B	1321-3R12-B	1321-3RA12-B
20BD011	Normal Duty	7.5	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B
20BD014	Heavy Duty	7.5	1321-3R12-B	1321-3RA12-B	1321-3R18-B	1321-3RA18-B
20BD014	Normal Duty	10	1321-3R18-B	1321-3RA18-B	1321-3R18-B	1321-3RA18-B
20BD022	Heavy Duty	10	1321-3R18-B	1321-3RA18-B	1321-3R25-B	1321-3RA25-B
20BD022	Normal Duty	15	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B
20BD027	Heavy Duty	15	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B
20BD027	Normal Duty	20	1321-3R35-B	1321-3RA35-B	1321-3R25-B	1321-3RA25-B
20BD034	Heavy Duty	20	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B
20BD034	Normal Duty	25	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B
20BD040	Heavy Duty	25	1321-3R35-B	1321-3RA35-B	1321-3R45-B	1321-3RA45-B
20BD040	Normal Duty	30	1321-3R45-B	1321-3RA45-B	1321-3R45-B	1321-3RA45-B
20BD052	Heavy Duty	30	1321-3R45-B	1321-3RA45-B	1321-3R55-B	1321-3RA55-B
20BD052	Normal Duty	40	1321-3R55-B	1321-3RA55-B	1321-3R55-B	1321-3RA55-B
20BD065	Heavy Duty	40	1321-3R55-B	1321-3RA55-B	1321-3R80-B	1321-3RA80-B
20BD065	Normal Duty	50	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BD077	Heavy Duty	50	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BD077	Normal Duty	60	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BD096	Heavy Duty	60	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BD096	Normal Duty	75	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B
20BD125	Heavy Duty	75	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B
20BD125	Normal Duty	100	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B
20BD156	Heavy Duty	100	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B
20BD156	Normal Duty	125	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B
20BD180	Heavy Duty	125	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B
20BD180	Normal Duty	150	1321-3R200-B	1321-3RA200-B	1321-3R200-C	1321-3RA200-C

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Drive Cat. No.	Duty	Hp	Input Line Reactor[1]		Output Line Reactor[1]	
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)
			Cat. No.	Cat. No.	Cat. No.	Cat. No.
20BD248	Heavy Duty	150	1321-3R200-B	1321-3RA200-B	1321-3R200-C	1321-3RA200-C
20BD248	Normal Duty	200	1321-3RB250-B	1321-3RAB250-B	1321-3RB250-B	1321-3RAB250-B
20BD292	Heavy Duty	200	1321-3RB250-B	1321-3RAB250-B	1321-3RB250-B	1321-3RAB250-B
20BD292	Normal Duty	250	1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B
20BD325	Heavy Duty	250	1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B
20BD325	Normal Duty	250	1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B
20BD365	Heavy Duty	250	1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B
20BD365	Normal Duty	300	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B
20BD415	Heavy Duty	300	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B
20BD415	Normal Duty	350	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B
20BD481	Heavy Duty	350	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B
20BD481	Normal Duty	400	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B
20BD535	Heavy Duty	400	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B
20BD535	Normal Duty	450	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B
20BD600	Heavy Duty	450	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B
20BD600	Normal Duty	500	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B
20BD730	Heavy Duty	500	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B
20BD730	Normal Duty	600	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B
20BD875	Heavy Duty	600	1321-3R750-B	1321-3RA750-B	1321-3R600-B	1321-3RA600-B
20BD875	Normal Duty	700	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

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480V, 60 Hz, Three-Phase, 5% Impedance

			Input Line Reactor[1]		Output Line Reactor[1]	
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)
Drive Cat. No.	Duty	Hp	Cat. No.	Cat. No.	Cat. No.	Cat. No.
20BD1P1	Heavy Duty	0.33	1321-3R1-B	1321-3RA1-B	1321-3R2-C	1321-3RA2-C
20BD1P1	Normal Duty	0.5	1321-3R1-B	1321-3RA1-B	1321-3R2-C	1321-3RA2-C
20BD2P1	Heavy Duty	0.75	1321-3R2-C	1321-3RA2-C	1321-3R2-B	1321-3RA2-B
20BD2P1	Normal Duty	1	1321-3R2-B	1321-3RA2-B	1321-3R2-B	1321-3RA2-B
20BD3P4	Heavy Duty	1.5	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D
20BD3P4	Normal Duty	2	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D
20BD5P0	Heavy Duty	2	1321-3R4-D	1321-3RA4-D	1321-3R8-D	1321-3RA8-D
20BD5P0	Normal Duty	3	1321-3R8-D	1321-3RA8-D	1321-3R8-D	1321-3RA8-D
20BD8P0	Heavy Duty	3	1321-3R8-D	1321-3RA8-D	1321-3R8-C	1321-3RA8-C
20BD8P0	Normal Duty	5	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C
20BD011	Heavy Duty	5	1321-3R8-C	1321-3RA8-C	1321-3R12-C	1321-3RA12-C
20BD011	Normal Duty	7.5	1321-3R12-C	1321-3RA12-C	1321-3R12-C	1321-3RA12-C
20BD014	Heavy Duty	7.5	1321-3R12-C	1321-3RA12-C	1321-3R18-C	1321-3RA18-C
20BD014	Normal Duty	10	1321-3R18-C	1321-3RA18-C	1321-3R18-C	1321-3RA18-C
20BD022	Heavy Duty	10	1321-3R18-C	1321-3RA18-C	1321-3R25-C	1321-3RA25-C
20BD022	Normal Duty	15	1321-3R25-C	1321-3RA25-C	1321-3R25-C	1321-3RA25-C
20BD027	Heavy Duty	15	1321-3R25-C	1321-3RA25-C	1321-3R25-C	1321-3RA25-C
20BD027	Normal Duty	20	1321-3R35-C[2]	1321-3RA35-C[2]	1321-3R25-C	1321-3RA25-C
20BD034	Heavy Duty	20	1321-3R35-C[2]	1321-3RA35-C[2]	1321-3R35-C	1321-3RA35-C
20BD034	Normal Duty	25	1321-3R35-C	1321-3RA35-C	1321-3R35-C	1321-3RA35-C
20BD040	Heavy Duty	25	1321-3R35-C	1321-3RA35-C	1321-3R45-C	1321-3RA45-C
20BD040	Normal Duty	30	1321-3R45-C	1321-3RA45-C	1321-3R45-C	1321-3RA45-C
20BD052	Heavy Duty	30	1321-3R45-C	1321-3RA45-C	1321-3R55-C	1321-3RA55-C
20BD052	Normal Duty	40	1321-3R55-C	1321-3RA55-C	1321-3R55-C	1321-3RA55-C
20BD065	Heavy Duty	40	1321-3R55-C	1321-3RA55-C	1321-3R80-C	1321-3RA80-C
20BD065	Normal Duty	50	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C
20BD077	Heavy Duty	50	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C
20BD077	Normal Duty	60	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C
20BD096	Heavy Duty	60	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C
20BD096	Normal Duty	75	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C
20BD125	Heavy Duty	75	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C
20BD125	Normal Duty	100	1321-3R130-C	1321-3RA130-C	1321-3R130-C	1321-3RA130-C
20BD156	Heavy Duty	100	1321-3R130-C	1321-3RA130-C	1321-3R130-C	1321-3RA130-C
20BD156	Normal Duty	125	1321-3R160-C	1321-3RA160-C	1321-3R160-C	1321-3RA160-C
20BD180	Heavy Duty	125	1321-3R160-C	1321-3RA160-C	1321-3R160-C	1321-3RA160-C
20BD180	Normal Duty	150	1321-3R200-C	1321-3RA200-C	1321-3R200-C[2]	1321-3RA200-C[2]

continued

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Drive Cat. No.	Duty	Hp	Input Line Reactor[1]		Output Line Reactor[1]	
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)
			Cat. No.	Cat. No.	Cat. No.	Cat. No.
20BD248	Heavy Duty	150	1321-3R200-C	1321-3RA200-C	1321-3R200-C[2]	1321-3RA200-C[2]
20BD248	Normal Duty	200	1321-3RB250-C	1321-3RAB250-C	1321-3RB250-C	1321-3RAB250-C
20BD292	Heavy Duty	200	1321-3RB250-C	1321-3RAB250-C	1321-3RB250-C	1321-3RAB250-C
20BD292	Normal Duty	250	1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C
20BD325	Heavy Duty	250	1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C
20BD325	Normal Duty	250	1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C
20BD365	Heavy Duty	250	1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C
20BD365	Normal Duty	300	1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C
20BD415	Heavy Duty	300	1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C
20BD415	Normal Duty	350	1321-3R500-C	1321-3RA500-C	1321-3RB400-C	1321-3RAB400-C
20BD481	Heavy Duty	350	1321-3R500-C	1321-3RA500-C	1321-3RB400-C	1321-3RAB400-C
20BD481	Normal Duty	400	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C
20BD535	Heavy Duty	400	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C
20BD535	Normal Duty	450	1321-3R600-C	1321-3RA600-C	1321-3R500-C	1321-3RA500-C
20BD600	Heavy Duty	450	1321-3R600-C	1321-3RA600-C	1321-3R500-C	1321-3RA500-C
20BD600	Normal Duty	500	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C
20BD730	Heavy Duty	500	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C
20BD730	Normal Duty	600	1321-3R750-E	1321-3RA750-E	1321-3R750-E	1321-3RA750-E
20BD875	Heavy Duty	600	1321-3R750-E	1321-3RA750-E	1321-3R750-E	1321-3RA750-E
20BD875	Normal Duty	700	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

(2) 4% impedance.

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600V, 60 Hz, Three-Phase, 3% Impedance

			Input Line Reactor[1]		Output Line Reactor[1]	
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)
Drive Cat. No.	Duty	Hp	Cat. No.	Cat. No.	Cat. No.	Cat. No.
20BE1P7	Heavy Duty	0.5	1321-3R1-C	1321-3RA1-C	1321-3R2-B	1321-3RA2-B
20BE1P7	Normal Duty	1	1321-3R2-B	1321-3RA2-B	1321-3R2-B	1321-3RA2-B
20BE2P7	Heavy Duty	1	1321-3R2-B	1321-3RA2-B	1321-3R4-D	1321-3RA4-D
20BE2P7	Normal Duty	2	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D
20BE3P9	Heavy Duty	2	1321-3R4-D	1321-3RA4-D	1321-3R4-C	1321-3RA4-C
20BE3P9	Normal Duty	3	1321-3R4-C	1321-3RA4-C	1321-3R4-C	1321-3RA4-C
20BE6P1	Heavy Duty	3	1321-3R4-C	1321-3RA4-C	1321-3R8-C	1321-3RA8-C
20BE6P1	Normal Duty	5	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C
20BE9P0	Heavy Duty	5	1321-3R8-C	1321-3RA8-C	1321-3R12-C	1321-3RA12-C
20BE9P0	Normal Duty	7.5	1321-3R12-C	1321-3RA12-C	1321-3R12-C	1321-3RA12-C
20BE011	Heavy Duty	7.5	1321-3R12-C	1321-3RA12-C	1321-3R12-B	1321-3RA12-B
20BE011	Normal Duty	10	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B
20BE017	Heavy Duty	10	1321-3R12-B	1321-3RA12-B	1321-3R18-B	1321-3RA18-B
20BE017	Normal Duty	15	1321-3R18-B	1321-3RA18-B	1321-3R18-B	1321-3RA18-B
20BE022	Heavy Duty	15	1321-3R18-B	1321-3RA18-B	1321-3R25-B	1321-3RA25-B
20BE022	Normal Duty	20	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B
20BE027	Heavy Duty	20	1321-3R25-B	1321-3RA25-B	1321-3R35-C	1321-3RA35-C
20BE027	Normal Duty	25	1321-3R35-C	1321-3RA35-C	1321-3R35-C	1321-3RA35-C
20BE032	Heavy Duty	25	1321-3R35-C	1321-3RA35-C	1321-3R35-B	1321-3RA35-B
20BE032	Normal Duty	30	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B
20BE041	Heavy Duty	30	1321-3R35-B	1321-3RA35-B	1321-3R45-B	1321-3RA45-B
20BE041	Normal Duty	40	1321-3R45-B	1321-3RA45-B	1321-3R45-B	1321-3RA45-B
20BE052	Heavy Duty	40	1321-3R45-B	1321-3RA45-B	1321-3R55-B	1321-3RA55-B
20BE052	Normal Duty	50	1321-3R55-B	1321-3RA55-B	1321-3R55-B	1321-3RA55-B
20BE062	Heavy Duty	50	1321-3R55-B	1321-3RA55-B	1321-3R80-B	1321-3RA80-B
20BE062	Normal Duty	60	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BE077	Heavy Duty	60	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BE077	Normal Duty	75	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BE099	Heavy Duty	75	1321-3R80-B	1321-3RA80-B	1321-3R80-B	1321-3RA80-B
20BE099	Normal Duty	100	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B
20BE125	Heavy Duty	100	1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B
20BE125	Normal Duty	125	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B
20BE144	Heavy Duty	125	1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B
20BE144	Normal Duty	150	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

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600V, 60 Hz, Three-Phase, 5% Impedance

			Input Line Reactor[1]		Output Line Reactor[1]	
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)
Drive Cat. No.	Duty	Hp	Cat. No.	Cat. No.	Cat. No.	Cat. No.
20BE1P7	Heavy Duty	0.5	1321-3R1-B	1321-3RA1-B	1321-3R2-C	1321-3RA2-C
20BE1P7	Normal Duty	1	1321-3R2-C	1321-3RA2-C	1321-3R2-C	1321-3RA2-C
20BE2P7	Heavy Duty	1	1321-3R2-C	1321-3RA2-C	1321-3R4-D[2]	1321-3RA4-D[2]
20BE2P7	Normal Duty	2	1321-3R4-D[2]	1321-3RA4-D[2]	1321-3R4-D[2]	1321-3RA4-D[2]
20BE3P9	Heavy Duty	2	1321-3R4-D[2]	1321-3RA4-D[2]	1321-3R4-D	1321-3RA4-D
20BE3P9	Normal Duty	3	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D
20BE6P1	Heavy Duty	3	1321-3R4-D	1321-3RA4-D	1321-3R8-D	1321-3RA8-D
20BE6P1	Normal Duty	5	1321-3R8-D	1321-3RA8-D	1321-3R8-D	1321-3RA8-D
20BE9P0	Heavy Duty	5	1321-3R8-D	1321-3RA8-D	1321-3R12-C[2]	1321-3RA12-C[2]
20BE9P0	Normal Duty	7.5	1321-3R12-C[2]	1321-3RA12-C[2]	1321-3R12-C[2]	1321-3RA12-C[2]
20BE011	Heavy Duty	7.5	1321-3R12-C[2]	1321-3RA12-C[2]	1321-3R12-C	1321-3RA12-C
20BE011	Normal Duty	10	1321-3R12-C	1321-3RA12-C	1321-3R12-C	1321-3RA12-C
20BE017	Heavy Duty	10	1321-3R12-C	1321-3RA12-C	1321-3R18-C	1321-3RA18-C
20BE017	Normal Duty	15	1321-3R18-C	1321-3RA18-C	1321-3R18-C	1321-3RA18-C
20BE022	Heavy Duty	15	1321-3R18-C	1321-3RA18-C	1321-3R25-C[2]	1321-3RA25-C[2]
20BE022	Normal Duty	20	1321-3R25-C[2]	1321-3RA25-C[2]	1321-3R25-C[2]	1321-3RA25-C[2]
20BE027	Heavy Duty	20	1321-3R25-C[2]	1321-3RA25-C[2]	1321-3R35-C[2]	1321-3RA35-C[2]
20BE027	Normal Duty	25	1321-3R35-C[2]	1321-3RA35-C[2]	1321-3R35-C[2]	1321-3RA35-C[2]
20BE032	Heavy Duty	25	1321-3R35-C[2]	1321-3RA35-C[2]	1321-3R35-C[2]	1321-3RA35-C[2]
20BE032	Normal Duty	30	1321-3R35-C[2]	1321-3RA35-C[2]	1321-3R35-C[2]	1321-3RA35-C[2]
20BE041	Heavy Duty	30	1321-3R35-C[2]	1321-3RA35-C[2]	1321-3R45-C	1321-3RA45-C
20BE041	Normal Duty	40	1321-3R45-C	1321-3RA45-C	1321-3R45-C	1321-3RA45-C
20BE052	Heavy Duty	40	1321-3R45-C	1321-3RA45-C	1321-3R55-C	1321-3RA55-C
20BE052	Normal Duty	50	1321-3R55-C	1321-3RA55-C	1321-3R55-C	1321-3RA55-C
20BE062	Heavy Duty	50	1321-3R55-C	1321-3RA55-C	1321-3R80-C	1321-3RA80-C
20BE062	Normal Duty	60	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C
20BE077	Heavy Duty	60	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C
20BE077	Normal Duty	75	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C
20BE099	Heavy Duty	75	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C
20BE099	Normal Duty	100	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C
20BE125	Heavy Duty	100	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C
20BE125	Normal Duty	125	1321-3R130-C[2]	1321-3RA130-C[2]	1321-3R130-C[2]	1321-3RA130-C[2]
20BE144	Heavy Duty	125	1321-3R130-C[2]	1321-3RA130-C[2]	1321-3R130-C[2]	1321-3RA130-C[2]
20BE144	Normal Duty	150	1321-3R160-C[2]	1321-3RA160-C[2]	1321-3R160-C[2]	1321-3RA160-C[2]

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

(2) 4% impedance.

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Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

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Publication 20B-TD001H-EN-P - July 2014
Supersedes Publication 20B-TD001G-EN-P - July 2013

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