



PowerFlex 520-series AC Drive Specifications

Bulletin Numbers 25A series B, 25B

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Drive Features: AppView®, CustomView™, QuickView®, and MainsFree™ configuration and programming tools.

Accessories and Dimensions

Dynamic Brake Resistors

Drive Ratings			Minimum Resistance $\Omega \pm 10\%$	Resistance $\Omega \pm 5\%$	Catalog Number ⁽¹⁾⁽²⁾	Fuse Protection ⁽³⁾		
Input Voltage	HP	kW				BR- ⁽⁴⁾	DC+/BR+	DC-
100...120V 50/60 Hz 1-phase	0.25	0.2	56	91	AK-R2-091P500	PV-15A10F	1000GH-016	1000GH-016
	0.5	0.4	56	91	AK-R2-091P500	PV-15A10F	1000GH-016	1000GH-016
	1.0	0.75	56	91	AK-R2-091P500	PV-15A10F	1000GH-016	1000GH-016
	1.5	1.1	41	91	AK-R2-091P500	PV-15A10F	1000GH-020	1000GH-020
200...240V 50/60 Hz 1-phase	0.25	0.2	56	91	AK-R2-091P500	PV-15A10F	1000GH-016	1000GH-016
	0.5	0.4	56	91	AK-R2-091P500	PV-15A10F	1000GH-016	1000GH-016
	1.0	0.75	56	91	AK-R2-091P500	PV-15A10F	1000GH-016	1000GH-016
	2.0	1.5	41	91	AK-R2-091P500	PV-32ANH1	1000GH-025	1000GH-025
	3.0	2.2	32	47	AK-R2-047P500	PV-32ANH1	1000GH-032	1000GH-032
200...240V 50/60 Hz 3-phase	0.25	0.2	56	91	AK-R2-091P500	PV-20A10F	1000GH-016	1000GH-016
	0.5	0.4	56	91	AK-R2-091P500	PV-20A10F	1000GH-016	1000GH-016
	1.0	0.75	56	91	AK-R2-091P500	PV-20A10F	1000GH-016	1000GH-016
	2.0	1.5	41	91	AK-R2-091P500	PV-20A10F	1000GH-025	1000GH-025
	3.0	2.2	32	47	AK-R2-047P500	PV-20A10F	1000GH-032	1000GH-032
	5.0	4.0	18	47	AK-R2-047P500	PV-32ANH1	1000GH-050	1000GH-050
	7.5	5.5	16	30	AK-R2-030P1K2	PV-40ANH1	1000GH-063	1000GH-063
	10.0	7.5	14	30	AK-R2-030P1K2	1000GH-040	1000GH-080	1000GH-080
	15.0	11.0	14	15	AK-R2-030P1K2 ⁽⁵⁾	1000GH-050	1000GH-100	1000GH-100
380...480V 50/60 Hz 3-phase	20.0	15.0	10	15	AK-R2-030P1K2 ⁽⁵⁾	1000GH-050	1000GH-125	1000GH-125
	0.5	0.4	89	360	AK-R2-360P500	PV-10A10F	1000GH-016	1000GH-016
	1.0	0.75	89	360	AK-R2-360P500	PV-10A10F	1000GH-016	1000GH-016
	2.0	1.5	89	360	AK-R2-360P500	PV-10A10F	1000GH-016	1000GH-016
	3.0	2.2	89	120	AK-R2-120P1K2	PV-10A10F	1000GH-016	1000GH-016
	5.0	4.0	47	120	AK-R2-120P1K2	PV-20A10F	1000GH-032	1000GH-032
	7.5	5.5	47	120	AK-R2-120P1K2	PV-32ANH1	1000GH-032	1000GH-032
	10.0	7.5	47	120	AK-R2-120P1K2	PV-32ANH1	1000GH-040	1000GH-040
	15.0	11.0	43	60	AK-R2-120P1K2 ⁽⁵⁾	1000GH-025	1000GH-063	1000GH-063
	20.0	15.0	43	60	AK-R2-120P1K2 ⁽⁵⁾	1000GH-025	1000GH-080	1000GH-080
	25.0	18.5	27	40	AK-R2-120P1K2 ⁽⁶⁾	1000GH-040	1000GH-080	1000GH-080
525...600V 50/60 Hz 3-phase	30.0	22.0	27	40	AK-R2-120P1K2 ⁽⁶⁾	1000GH-040	1000GH-080	1000GH-080
	0.5	0.4	112	360	AK-R2-360P500	PV-10A10F	1000GH-016	1000GH-016
	1.0	0.75	112	360	AK-R2-360P500	PV-10A10F	1000GH-016	1000GH-016
	2.0	1.5	112	360	AK-R2-360P500	PV-10A10F	1000GH-016	1000GH-016
	3.0	2.2	112	120	AK-R2-120P1K2	PV-10A10F	1000GH-016	1000GH-016
	5.0	4.0	86	120	AK-R2-120P1K2	PV-12A10F	1000GH-025	1000GH-025
	7.5	5.5	59	120	AK-R2-120P1K2	PV-20A10F	1000GH-025	1000GH-025
	10.0	7.5	59	120	AK-R2-120P1K2	PV-20A10F	1000GH-032	1000GH-032
	15.0	11.0	59	60	AK-R2-120P1K2 ⁽⁵⁾	1000GH-025	1000GH-050	1000GH-050
	20.0	15.0	59	60	AK-R2-120P1K2 ⁽⁵⁾	1000GH-025	1000GH-063	1000GH-063
	25.0	18.5	53	60	AK-R2-120P1K2 ⁽⁵⁾	1000GH-040	1000GH-063	1000GH-063
	30.0	22.0	34	40	AK-R2-120P1K2 ⁽⁶⁾	1000GH-040	1000GH-063	1000GH-063

(1) The resistors that are listed in this tables are rated for 5% duty cycle.

(2) Use of Rockwell Automation resistors is always recommended. The resistors that are listed have been carefully selected to optimize performance in various applications. Alternative resistors can be used, however, care must be taken when making a selection. See the PowerFlex Dynamic Braking Resistor Calculator Application Technique, publication [PFLX-AT001](#).

(3) For IEC applications, DC Fuse is mandatory when these terminals are connected. Connect the fuse to the terminal. Use the specified part number. PV-xxxxxx fuse is from Bussman. 1000GH-xxx fuse is from Hinode.

(4) For UL applications, a DC fuse is mandatory at the BR- terminal when used with a dynamic brake resistor.

(5) Requires two resistors that are wired in parallel.

(6) Requires three resistors that are wired in parallel.

EMC Line Filters

Short-circuit Current Rating (SCCR) = 100 kA

Drive Ratings				Frame Size	For 100 m (328 ft) Catalog Number	For 150 m (492 ft) ⁽¹⁾ Catalog Number
Input Voltage	HP	kW	Current (A)			
100...120V 50/60 Hz 1-phase	0.25	0.2	1.6	A	25-RF011-AL	—
	0.5	0.4	2.5	A	25-RF011-AL	—
	1.0	0.75	4.8	B	25-RF023-BL	—
	1.5	1.1	6.0	B	25-RF023-BL	—
200...240V 50/60 Hz 1-phase	0.25	0.2	1.6	A	25-RF011-AL	
	0.5	0.4	2.5	A	25-RF011-AL	
	1.0	0.75	4.8	A	25-RF011-AL	
	2.0	1.5	8.0	B	25-RF023-BL	
	3.0	2.2	11.0	B	25-RF023-BL	
200...240V 50/60 Hz 3-phase	0.25	0.2	1.6	A	25-RF014-AL	25-RF021-BL
	0.5	0.4	2.5	A	25-RF014-AL	25-RF021-BL
	1.0	0.75	5.0	A	25-RF014-AL	25-RF021-BL
	2.0	1.5	8.0	A	25-RF014-AL	25-RF021-BL
	3.0	2.2	11.0	A	25-RF014-AL	25-RF021-BL
	5.0	4.0	17.5	B	25-RF021-BL	
	7.5	5.5	24.0	C	25-RF027-CL	
	10.0	7.5	32.2	D	25-RF035-DL	
	15.0	11.0	48.3	E	25-RF056-EL	
	20.0	15.0	62.1	E	25-RF056-EL	
380...480V 50/60 Hz 3-phase	0.5	0.4	1.4	A	25-RF7P5-AL	25-RF014-BL
	1.0	0.75	2.3	A	25-RF7P5-AL	25-RF014-BL
	2.0	1.5	4.0	A	25-RF7P5-AL	25-RF014-BL
	3.0	2.2	6.0	A	25-RF7P5-AL	25-RF014-BL
	5.0	4.0	10.5	B	25-RF014-BL	
	7.5	5.5	13.0	C	25-RF018-CL	
	10.0	7.5	17.0	C	25-RF018-CL	
	15.0	11.0	24.0	D	25-RF033-DL	
	20.0	15.0	30.0	D	25-RF033-DL	
	25.0	18.5	37.0	E	25-RF039-EL	
	30.0	22.0	43.0	E	25-RF039-EL	
525...600V 50/60 Hz 3-phase	0.5	0.4	0.9	A	25-RF8P0-BL ⁽²⁾	—
	1.0	0.75	1.7	A	25-RF8P0-BL ⁽²⁾	—
	2.0	1.5	3.0	A	25-RF8P0-BL ⁽²⁾	—
	3.0	2.2	4.2	A	25-RF8P0-BL ⁽²⁾	—
	5.0	4.0	6.6	B	25-RF8P0-BL	—
	7.5	5.5	9.9	C	25-RF014-CL	—
	10.0	7.5	12.0	C	25-RF014-CL	—
	15.0	11.0	19.0	D	25-RF027-DL	—
	20.0	15.0	22.0	D	25-RF027-DL	—
	25.0	18.5	27.0	E	25-RF029-EL	—
	30.0	22.0	32.0	E	25-RF029-EL ⁽²⁾	—

(1) Requires series B filters to achieve a 150 m (492 ft) rating.

(2) The 600V drive rating must be matched with a frame B line filter.

EMC Plates

Item	Description	Frame Size	Catalog Number
EMC Plate	Optional grounding plate for shielded cables.	A	25-EMC1-FA
		B	25-EMC1-FB
		C	25-EMC1-FC
		D	25-EMC1-FD
		E	25-EMC1-FE

EMC Ferrite Cores

Item	Description	Frame Size	Catalog Number
EMC Ferrite Core	For drive with internal filter.	A	25-CORE-A
		B	25-CORE-B
		C	25-CORE-C
		D	25-CORE-D
		E	25-CORE-E
	For drive with external filter.	A	25-CORE-RF-A
		B	25-CORE-RF-B
		C	25-CORE-RF-C
		D	25-CORE-RF-D
		E	25-CORE-RF-E

Terminators

Item	Description ⁽¹⁾	Catalog Number
Terminators	For use with 3.7 kW (5 HP) and below drives.	1204-TFA1
	For use with 1.5 kW (2 HP) and above drives.	1204-TFB2

(1) For selection information, see Appendix A of the Wiring and Grounding for Pulse Width Modulated (PWM) AC Drives Installation Instructions, publication [DRIVES-IN001](#).

Human Interface Modules (HIM) Option Kits and Accessories

Item	Description	Catalog Number
LCD Display, Remote Panel Mount	Digital speed control CopyCat capable IP 66 (NEMA Type 4X/12) indoor use only Includes 2.0 m (6.56 ft) cable	22-HIM-C2S
LCD Display, Remote Handheld	Digital speed control Full numeric keyboard CopyCat capable IP 30 (NEMA Type 1) Includes 1.0 m (3.28 ft) cable Panel mount with optional Bezel Kit	22-HIM-A3
Bezel Kit	Panel mount for LCD Display, Remote Handheld unit, IP 30 (NEMA Type 1) Includes 2.0 m (6.56 ft) DSI cable	22-HIM-B1
DSI HIM Cable (DSI HIM to RJ45 cable)	1.0 m (3.3 ft)	22-HIM-H10
	2.9 m (9.51 ft)	22-HIM-H30

IP 30/NEMA 1/UL Type 1 Kit

Item	Description	Frame Size	Catalog Number
IP 30/NEMA 1/UL Type 1 Kit	Field installed kit. Converts the drive to an IP 30/NEMA 1/UL Type 1 enclosure. Includes conduit box with mounting screws and plastic top panel.	A	25-JBAA
		B	25-JBAB
		C	25-JBAC
		D	25-JBAD
		E	25-JBAE

Control Module Fan Kit

Item	Description	Frame Size	Catalog Number
Control Module Fan Kit	For use with the drive in environments with ambient temperatures up to 70 °C (158 °F) or horizontal mounting.	A...D	25-FAN1-70C
		E	25-FAN2-70C

Incremental Encoder Input Option

Item	Description	Catalog Number
Incremental Encoder	Incremental encoder input option board.	25-ENC-1



WARNING: Only the 25-ENC-1 Encoder works properly in the PowerFlex 525 drive. Installing an incorrect encoder card, such as the PowerFlex 527 25-ENC-2 will damage the PowerFlex 525 drive.

Bulletin 160 to PowerFlex 520-series Mounting Adapter Plate

Item	Description	B160 Frame Size	Catalog Number
Mounting Adapter Plate	For use with drive when replacing Bulletin 160 drives in existing installations to a PowerFlex 520-series drive. Select the catalog number based on the frame size of your Bulletin 160 drive.	A	25-MAP-FA
		B	25-MAP-FB

PowerFlex 4/40/40P IP 20 to PowerFlex 520-series Drives

Item	Description	PF4/40/40P Frame Size	Catalog Number
Mounting Adapter Plate	For use with drive when replacing PowerFlex 4/40/40P IP 20 drives in existing installations to a PowerFlex 520-series drive. Select the catalog number based on the frame size of your PowerFlex 4/40/40P drives.	A	25-AP0-FA
		B	25-AP0-FB
		C	25-AP0-FC
		C ⁽¹⁾	25-AP0-FD
	For use with drive when replacing PowerFlex 4/40/40P IP 20 drives with external EMC filter in existing installations to a PowerFlex 520-series drive with external EMC filter. Select the catalog number based on the frame size of your PowerFlex 4/40/40P drives.	A	25-AP1-FA
		B	25-AP1-FB
		C ⁽²⁾	25-AP1-FC

(1) Only for 3-phase 200...240V: 7.5 kW/10 HP, 3-phase 380...480V: 11 kW/15 HP, and 3-phase 500...600V: 11 kW/15 HP

(2) PowerFlex 4/40/40P + EMC filter adapter plate is not applicable for 3-phase 200...240V: 7.5 kW/10 HP, 3-phase 380...480V: 11 kW/15 HP, and 3-phase 500...600V: 11 kW/15 HP

Replacement Parts

PowerFlex 520-series Power Module

Item	Description
PowerFlex 520-series Power Module	Replacement power module for use with PowerFlex 520-series drives. Includes: • Power Module • Power Module Front Cover • Power Terminal Guard • Heatsink Fan

Output Ratings					Input Voltage Range	Frame Size	Catalog Number
Normal Duty		Heavy Duty		Output Current (A)			
HP	kW	HP	kW				
100...120V AC (-15%, +10%) - 1-phase Input, 0...230V 3-phase Output							
0.25	0.2	0.25	0.2	1.6	85...132	A	25-PM1-V1P6
0.5	0.4	0.5	0.4	2.5	85...132	A	25-PM1-V2P5
1.0	0.75	1.0	0.75	4.8	85...132	B	25-PM1-V4P8
1.5	1.1	1.5	1.1	6.0	85...132	B	25-PM1-V6P0

Output Ratings (Continued)					Input Voltage Range	Frame Size	Catalog Number
Normal Duty		Heavy Duty		Output Current (A)			
HP	kW	HP	kW				
200...240V AC (-15%, +10%) - 1-phase Input, 0...230V 3-phase Output							
0.25	0.2	0.25	0.2	1.6	170...264	A	25-PM1-A1P6
0.5	0.4	0.5	0.4	2.5	170...264	A	25-PM1-A2P5
1.0	0.75	1.0	0.75	4.8	170...264	A	25-PM1-A4P8
2.0	1.5	2.0	1.5	8.0	170...264	B	25-PM1-A8P0
3.0	2.2	3.0	2.2	11.0	170...264	B	25-PM1-A011
200...240V AC (-15%, +10%) - 1-phase Input with EMC Filter, 0...230V 3-phase Output							
0.25	0.2	0.25	0.2	1.6	170...264	A	25-PM2-A1P6
0.5	0.4	0.5	0.4	2.5	170...264	A	25-PM2-A2P5
1.0	0.75	1.0	0.75	4.8	170...264	A	25-PM2-A4P8
2.0	1.5	2.0	1.5	8.0	170...264	B	25-PM2-A8P0
3.0	2.2	3.0	2.2	11.0	170...264	B	25-PM2-A011
200...240V AC (-15%, +10%) - 3-phase Input, 0...230V 3-phase Output							
0.25	0.2	0.25	0.2	1.6	170...264	A	25-PM1-B1P6
0.5	0.4	0.5	0.4	2.5	170...264	A	25-PM1-B2P5
1.0	0.75	1.0	0.75	5.0	170...264	A	25-PM1-B5P0
2.0	1.5	2.0	1.5	8.0	170...264	A	25-PM1-B8P0
3.0	2.2	3.0	2.2	11.0	170...264	A	25-PM1-B011
5.0	4.0	5.0	4.0	17.5	170...264	B	25-PM1-B017
7.5	5.5	7.5	5.5	24.0	170...264	C	25-PM1-B024
10.0	7.5	10.0	7.5	32.2	170...264	D	25-PM1-B032
15.0	11.0	10.0	7.5	48.3	170...264	E	25-PM1-B048
20.0	15.0	15.0	11.0	62.1	170...264	E	25-PM1-B062
380...480V AC (-15%, +10%) - 3-phase Input, 0...460V 3-phase Output							
0.5	0.4	0.5	0.4	1.4	323...528	A	25-PM1-D1P4
1.0	0.75	1.0	0.75	2.3	323...528	A	25-PM1-D2P3
2.0	1.5	2.0	1.5	4.0	323...528	A	25-PM1-D4P0
3.0	2.2	3.0	2.2	6.0	323...528	A	25-PM1-D6P0
5.0	4.0	5.0	4.0	10.5	323...528	B	25-PM1-D010
7.5	5.5	7.5	5.5	13.0	323...528	C	25-PM1-D013
10.0	7.5	10.0	7.5	17.0	323...528	C	25-PM1-D017
15.0	11.0	15.0	11.0	24.0	323...528	D	25-PM1-D024
20.0	15.0	15.0	11.0	30.0	323...528	D	25-PM1-D030
380...480V AC (-15%, +10%) - 3-phase Input with EMC Filter, 0...460V 3-phase Output							
0.5	0.4	0.5	0.4	1.4	323...528	A	25-PM2-D1P4
1.0	0.75	1.0	0.75	2.3	323...528	A	25-PM2-D2P3
2.0	1.5	2.0	1.5	4.0	323...528	A	25-PM2-D4P0
3.0	2.2	3.0	2.2	6.0	323...528	A	25-PM2-D6P0
5.0	4.0	5.0	4.0	10.5	323...528	B	25-PM2-D010
7.5	5.5	7.5	5.5	13.0	323...528	C	25-PM2-D013
10.0	7.5	10.0	7.5	17.0	323...528	C	25-PM2-D017
15.0	11.0	15.0	11.0	24.0	323...528	D	25-PM2-D024
20.0	15.0	15.0	11.0	30.0	323...528	D	25-PM2-D030
25.0	18.5	20.0	15.0	37.0	323...528	E	25-PM2-D037
30.0	22.0	25.0	18.5	43.0	323...528	E	25-PM2-D043
525...600V AC (-15%, +10%) - 3-phase Input, 0...575V 3-phase Output							
0.5	0.4	0.5	0.4	0.9	446...660	A	25-PM1-E0P9
1.0	0.75	1.0	0.75	1.7	446...660	A	25-PM1-E1P7
2.0	1.5	2.0	1.5	3.0	446...660	A	25-PM1-E3P0
3.0	2.2	3.0	2.2	4.2	446...660	A	25-PM1-E4P2
5.0	4.0	5.0	4.0	6.6	446...660	B	25-PM1-E6P6

Output Ratings (Continued)					Input Voltage Range	Frame Size	Catalog Number
Normal Duty		Heavy Duty		Output Current (A)			
HP	kW	HP	kW				
7.5	5.5	7.5	5.5	9.9	446...660	C	25-PM1-E9P9
10.0	7.5	10.0	7.5	12.0	446...660	C	25-PM1-E012
15.0	11.0	15.0	11.0	19.0	446...660	D	25-PM1-E019
20.0	15.0	15.0	11.0	22.0	446...660	D	25-PM1-E022
25.0	18.5	20.0	15.0	27.0	446...660	E	25-PM1-E027
30.0	22.0	25.0	18.5	32.0	446...660	E	25-PM1-E032

PowerFlex 520-series Control Module

Item	Description	Frame Size	Catalog Number
PowerFlex 523 Control Module	Replacement control module for use with PowerFlex 520-series drives. Includes: • Control Module • Control Module Front Cover	A...E	25A-CTM1
PowerFlex 525 Control Module			25B-CTM1

Other Parts

Item	Description	Frame Size	Catalog Number
PowerFlex 523 Control Module Front Cover	Replacement cover for the control module I/O terminals, EtherNet/IP, and DSI ports.	A...E	25A-CTMFC1
PowerFlex 525 Control Module Front Cover			25B-CTMFC1
PowerFlex 520-series Power Module Front Cover	Replacement cover for the PowerFlex 520-series power module.	B	25-PMFC-FB
		C	25-PMFC-FC
		D	25-PMFC-FD
		E	25-PMFC-FE
PowerFlex 520-series Power Terminal Guard	Replacement finger guard for power terminals.	A	25-PTG1-FA
		B	25-PTG1-FB
		C	25-PTG1-FC
		D	25-PTG1-FD
		E	25-PTG1-FE
PowerFlex 520-series Heatsink Fan Kit	Replacement fan for drive power module.	A	25-FAN1-FA
		B	25-FAN1-FB
		C	25-FAN1-FC
		D	25-FAN1-FD
		E	25-FAN1-FE

Communication Option Kits and Accessories

Item	Description	Catalog Number
Communication Adapters	Embedded communication options for use with the PowerFlex 520-series drives: • DeviceNet • Dual-port EtherNet/IP • PROFIBUS DP-V1 • PROFINET	25-COMM-D 25-COMM-E2P 25-COMM-P 25-COMM-PNET2P
Compact I/O™ Module	Three channels	1769-SM2
Universal Serial Bus (USB) Converter Module	Provides serial communication via DF1 protocol for use with Connected Components Workbench software. Includes: • 2 m (6.6 ft) USB cable (1) • 20-HIM-H10 cable (1) • 22-HIM-H10 cable (1)	1203-USB
Serial Converter Module (RS-485 to RS-232)	Provides serial communication via DF1 protocol for use with Connected Components Workbench software. Includes: • DSI to RS-232 serial converter (1) • 1203-SFC serial cable (1) • 22-RJ45CBL-C20 cable (1)	22-SCM-232
DSI Cable	2.0 m (6.6 ft) RJ45 to RJ45 cable, male to male connectors	22-RJ45CBL-C20

Communication Option Kits and Accessories (Continued)

Item	Description	Catalog Number
Serial Cable	2.0 m (6.6 ft) serial cable with a locking low profile connector to connect to the serial converter and a 9-pin subminiature D female connector to connect to a computer.	1203-SFC
Splitter Cable	RJ45 one to two port splitter cable (Modbus only)	AK-U0-RJ45-SC1
Terminating Resistors	RJ45 120 Ω resistors (2 pieces)	AK-U0-RJ45-TR1
Terminal Block	RJ45 Two-position terminal block (5 pieces)	AK-U0-RJ45-TB2P

Programming Software

Item	Description
Connected Components Workbench Software	Windows-based software packages for programming and configuring Allen-Bradley® drives and other Rockwell Automation products. Compatibility: Microsoft Windows® Server 2012 ⁽¹⁾ , Windows Server 2012 R2, Windows Server 2016 ⁽¹⁾ , Windows Server 2019, Windows 10 IoT Enterprise 2016 LTSC 64-bit, Windows 10 IoT Enterprise 2019 LTSC, Windows 10, and Windows 11 ⁽²⁾ All supported operating systems require .NET Framework 3.5 SP1 to be installed. You can download Connected Components Workbench Standard Edition software for free at rok.auto/pcdc . To purchase Connected Components Workbench Developer Edition software, visit rok.auto/ccw .

(1) Requires Connected Components Workbench software version 20.01.00 or earlier.

(2) Requires Connected Components Workbench software version 20.01.00 or later.

Bulletin 1321-3R Series Line Reactors

Output Ratings ⁽¹⁾				Input Line Reactor ⁽²⁾⁽³⁾		Output Line Reactor ⁽²⁾⁽³⁾	
Normal Duty		Heavy Duty		IP 00 (Open Style)	IP 11 (NEMA/UL Type 1)	IP 00 (Open Style)	IP 11 (NEMA/UL Type 1)
HP	kW	HP	kW	Catalog Number	Catalog Number	Catalog Number	Catalog Number
200...240V 50/60 Hz 1-phase⁽⁴⁾							
0.25	0.2	0.25	0.2	1321-3R4-A	1321-3RA4-A	1321-3R2-D	1321-3RA2-D
0.5	0.4	0.5	0.4	1321-3R8-A	1321-3RA8-A	1321-3R2-D	1321-3RA2-D
1.0	0.75	1.0	0.75	1321-3R8-A	1321-3RA8-A	1321-3R4-A	1321-3RA4-A
2.0	1.5	2.0	1.5	1321-3R18-A	1321-3RA18-A	1321-3R8-A	1321-3RA8-A
3.0	2.2	3.0	2.2	1321-3R18-A	1321-3RA18-A	1321-3R12-A	1321-3RA12-A
200...2240V 50/60 Hz 3-phase							
0.25	0.2	0.25	0.2	1321-3R2-D	1321-3RA2-D	1321-3R2-D	1321-3RA2-D
0.5	0.4	0.5	0.4	1321-3R2-D	1321-3RA2-D	1321-3R2-D	1321-3RA2-D
1.0	0.75	1.0	0.75	1321-3R4-A	1321-3RA4-A	1321-3R4-A	1321-3RA4-A
2.0	1.5	2.0	1.5	1321-3R8-A	1321-3RA8-A	1321-3R8-A	1321-3RA8-A
3.0	2.2	3.0	2.2	1321-3R12-A	1321-3RA12-A	1321-3R12-A	1321-3RA12-A
5.0	4.0	5.0	4.0	1321-3R18-A	1321-3RA18-A	1321-3R18-A	1321-3RA18-A
7.5	5.5	7.5	5.5	1321-3R25-A	1321-3RA25-A	1321-3R25-A	1321-3RA25-A
10.0	7.5	10.0	7.5	1321-3R35-A	1321-3RA35-A	1321-3R35-A	1321-3RA35-A
15.0	11.0	10.0	7.5	1321-3R45-A	1321-3RA45-A	1321-3R45-A	1321-3RA45-A
20.0	15.0	15.0	11.0	1321-3R55-A (ND) 1321-3R45-A (HD)	1321-3RA55-A (ND) 1321-3RA45-A (HD)	1321-3R55-A (ND) 1321-3R45-A (HD)	1321-3RA55-A (ND) 1321-3RA45-A (HD)
380...2480V 50/60 Hz 3-phase							
0.5	0.4	0.5	0.4	1321-3R2-B	1321-3RA2-B	1321-3R2-B	1321-3RA2-B
1.0	0.75	1.0	0.75	1321-3R4-C	1321-3RA4-C	1321-3R4-C	1321-3RA4-C
2.0	1.5	2.0	1.5	1321-3R4-B	1321-3RA4-B	1321-3R4-B	1321-3RA4-B
3.0	2.2	3.0	2.2	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C
5.0	4.0	5.0	4.0	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B
7.5	5.5	7.5	5.5	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B
10.0	7.5	10.0	7.5	1321-3R18-B	1321-3RA18-B	1321-3R18-B	1321-3RA18-B
15.0	11.0	15.0	11.0	1321-3R25-B	1321-3RA25-B	1321-3R25-B	1321-3RA25-B
20.0	15.0	15.0	11.0	1321-3R35-B (ND) 1321-3R25-B (HD)	1321-3RA35-B (ND) 1321-3RA25-B (HD)	1321-3R35-B (ND) 1321-3R25-B (HD)	1321-3RA35-B (ND) 1321-3RA25-B (HD)
25.0	18.5	20.0	15.0	1321-3R35-B	1321-3RA35-B	1321-3R35-B	1321-3RA35-B

Bulletin 1321-3R Series Line Reactors (Continued)

Output Ratings ⁽¹⁾				Input Line Reactor ⁽²⁾⁽³⁾		Output Line Reactor ⁽²⁾⁽³⁾	
Normal Duty		Heavy Duty		IP 00 (Open Style)	IP 11 (NEMA/UL Type 1)	IP 00 (Open Style)	IP 11 (NEMA/UL Type 1)
HP	kW	HP	kW	Catalog Number	Catalog Number	Catalog Number	Catalog Number
30.0	22.0	25.0	18.5	1321-3R45-B (ND) 1321-3R35-B (HD)	1321-3RA45-B (ND) 1321-3RA35-B (HD)	1321-3R45-B (ND) 1321-3R35-B (HD)	1321-3RA45-B (ND) 1321-3RA35-B (HD)
525...2600V 50/60 Hz 3-phase							
0.5	0.4	0.5	0.4	1321-3R1-C	1321-3RA1-C	1321-3R1-C	1321-3RA1-C
1.0	0.75	1.0	0.75	1321-3R2-B	1321-3RA2-B	1321-3R2-B	1321-3RA2-B
2.0	1.5	2.0	1.5	1321-3R4-C	1321-3RA4-C	1321-3R4-C	1321-3RA4-C
3.0	2.2	3.0	2.2	1321-3R4-B	1321-3RA4-B	1321-3R4-B	1321-3RA4-B
5.0	4.0	5.0	4.0	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C
7.5	5.5	7.5	5.5	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B
10.0	7.5	10.0	7.5	1321-3R12-B	1321-3RA12-B	1321-3R12-B	1321-3RA12-B
15.0	11.0	15.0	11.0	1321-3R18-B	1321-3RA18-B	1321-3R18-B	1321-3RA18-B
20.0	15.0	15.0	11.0	1321-3R25-B (ND) 1321-3R18-B (HD)	1321-3RA25-B (ND) 1321-3RA18-B (HD)	1321-3R25-B (ND) 1321-3R18-B (HD)	1321-3RA25-B (ND) 1321-3RA18-B (HD)
25.0	18.5	20.0	15.0	1321-3R35-C (ND) 1321-3R25-C (HD)	1321-3RA35-C (ND) 1321-3RA25-C (HD)	1321-3R35-C (ND) 1321-3R25-C (HD)	1321-3RA35-C (ND) 1321-3RA25-C (HD)
30.0	22.0	25.0	18.5	1321-3R35-C (ND) 1321-3R25-B (HD)	1321-3RA35-C (ND) 1321-3RA25-B (HD)	1321-3R35-C (ND) 1321-3R25-B (HD)	1321-3RA35-C (ND) 1321-3RA25-B (HD)

(1) Normal Duty and Heavy Duty ratings for 15 HP (11 kW) and below are identical except for 200...240V 3-phase 15 HP (11 kW) drive.

(2) Catalog numbers that are listed are for 3% impedance. 5% Impedance reactor types are also available. See the 1321 Power Conditioning Products Technical Data, publication [1321-TD001](#).

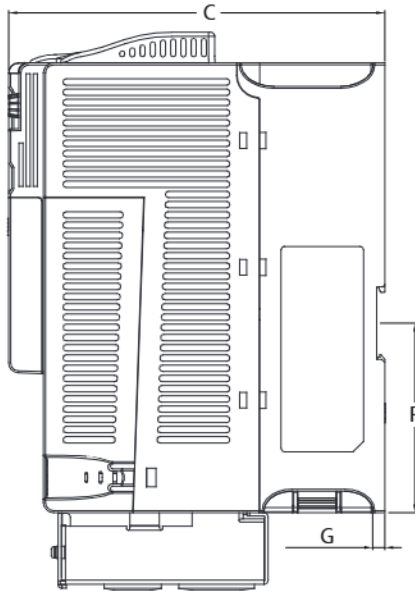
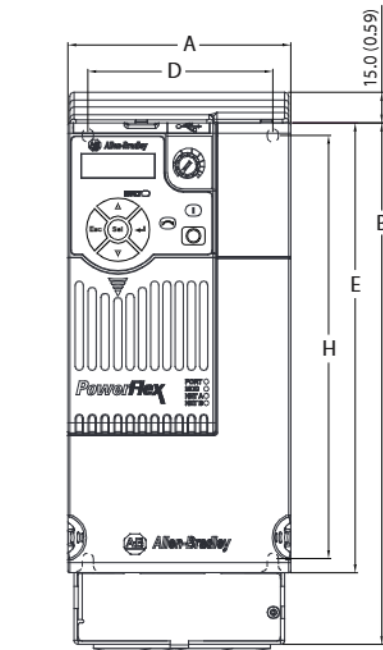
(3) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

(4) Standard 3-phase reactors can be used for 1-phase applications by routing each of the two supply conductors through an outside coil and leaving the center open.

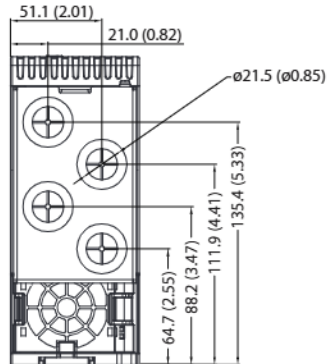
Accessory Dimensions

IP 30/NEMA 1/UL Type 1 Kit

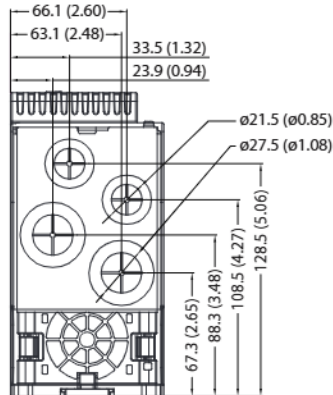
Dimensions are in mm and (in.)



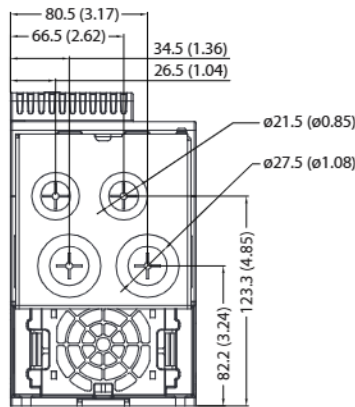
Frame A



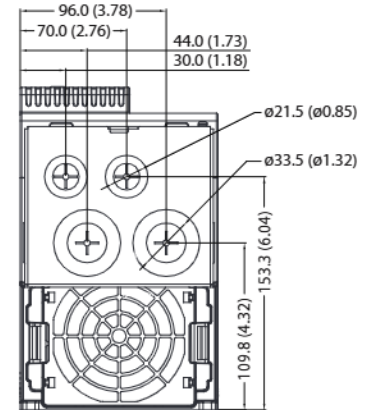
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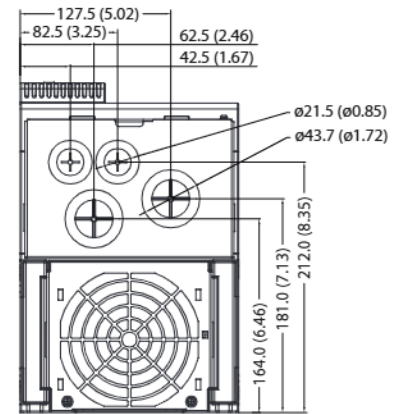
Frame C



Frame D



Frame E



Frame Size	A	B	C	D	E	F	G	H
A	72.0 (2.83)	219.0 (8.62)	172.0 (6.77)	57.5 (2.26)	152.0 (5.98)	92.7 (3.65)	6.0 (0.24)	140.0 (5.51)
B	87.0 (3.43)	218.0 (8.58)	172.0 (6.77)	72.5 (2.85)	180.0 (7.09)	92.7 (3.65)	6.0 (0.24)	168.0 (6.61)
C	109.0 (4.29)	255.0 (10.04)	184.0 (7.24)	90.5 (3.56)	222.0 (8.66)	92.7 (3.65)	6.0 (0.24)	207.0 (8.15)
D	130.0 (5.12)	295.0 (11.61)	212.0 (8.35)	116.0 (4.57)	260.0 (10.24)	—	6.0 (0.24)	247.0 (9.74)
E	185.0 (7.28)	350.0 (13.78)	279.0 (10.98)	160.0 (6.30)	300.0 (11.81)	—	7.6 (0.30)	280.0 (11.02)