



PowerFlex 400 Adjustable Frequency AC Drive

Catalog Number Z2C, Series B



ATTENTION

- Before installing, configuring, operating or maintaining this product, read this document and the documents listed in the Additional Resources section for installation, programming, or operating equipment. Users should familiarize themselves with installation and safety instructions in addition to requirements of all applicable codes, laws, and standards.
- Installation, adjustments, putting into service, use, assembly, disassembly and repair must be performed by qualified, trained personnel in accordance with applicable code of practice.
- If this equipment is used in a manner not specified by this manufacturer, the protection provided by the equipment may be impaired.
- Install status equipment that operational characteristics differing from those of the equipment. Refer to the equipment's User Application Manual for details.
- Installation and Maintenance of Solid State Controls, publication 500-0.1, available from your local Rockwell Automation sales office or online at <http://www.rockwellautomation.com/literature>. Document contains important differences between solid state equipment and hard-wired electromechanical devices.



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Additional Resources

These documents contain additional information concerning the installation, programming, and application of the AC drive.

English	This instruction sheet is available in multiple languages at http://www.rockwellautomation.com/literature . Select publication language and type "Z2C-0001" in the search field.
French	Des ressources relatives à l'installation, à la programmation et à l'application de cet équipement sont disponibles sur le site http://www.rockwellautomation.com/literature . Sélectionnez la langue et le type de publication "Z2C-0001" dans le champ de recherche.
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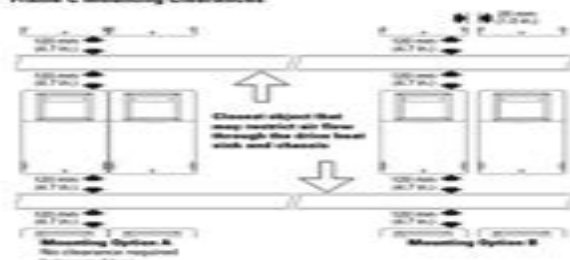
Frame	Drive enclosure type is appropriate to the application. Refer to the application manual for details.
AC Drive	AC Drive enclosure type is appropriate to the application. Refer to the application manual for details.
DC Drive	DC Drive enclosure type is appropriate to the application. Refer to the application manual for details.
Notes	Refer to the application manual for details. Refer to the application manual for details.
PowerFlex 400	PowerFlex 400 drive enclosure type is appropriate to the application. Refer to the application manual for details.
AC Drive	AC Drive enclosure type is appropriate to the application. Refer to the application manual for details.
DC Drive	DC Drive enclosure type is appropriate to the application. Refer to the application manual for details.
Notes	Refer to the application manual for details. Refer to the application manual for details.

Mounting Considerations

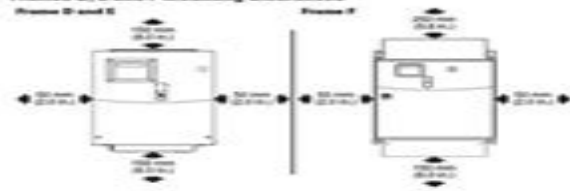
- Mount the drive upright on a flat, vertical and level surface.
- Prevent the cooling fan from blowing dust or debris into the drive.
- Do not expose to excessive vibration.
- Protect from moisture and direct sunlight.

Minimum Mounting Clearances

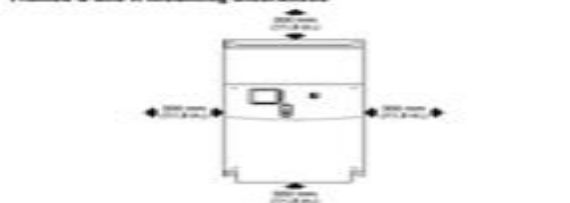
Frame C Mounting Clearances



Frames D, E and F Mounting Clearances



Frames G and H Mounting Clearances



Ambient Operating Temperatures

Frame	Temperature Range	Enclosure Rating	Minimum Mounting Clearances
C	-40 to 100 °C (-40 to 212 °F)	IP40/UL Type 1	Top Mounting Option A
D	-40 to 100 °C (-40 to 212 °F)	IP40/UL Type 1	Top Mounting Option B
E	-40 to 100 °C (-40 to 212 °F)	IP40/UL Type 1	Top Mounting Option C
F	-40 to 100 °C (-40 to 212 °F)	IP40/UL Type 1	Top Mounting Option D
G	-40 to 100 °C (-40 to 212 °F)	IP40/UL Type 1	Top Mounting Option E
H	-40 to 100 °C (-40 to 212 °F)	IP40/UL Type 1	Top Mounting Option F

Notes: 1. Ambient temperature is the temperature of the air surrounding the drive. 2. The drive must be mounted in a location that allows for adequate airflow.

Drive Dimensions

PowerFlex 400 Frames

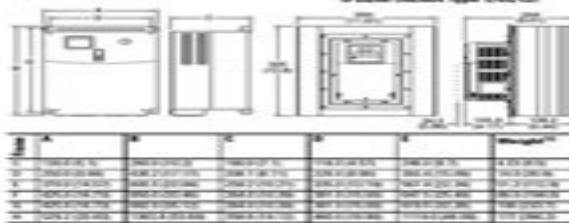
Output Power	Frame Size
0.5 to 1.5 kW	100
2 to 3 kW	150
4 to 7.5 kW	200
10 to 15 kW	250
20 to 30 kW	300
40 to 60 kW	350
75 to 110 kW	400
150 to 225 kW	450
300 to 450 kW	500
750 to 1100 kW	550
1500 to 2250 kW	600

PowerFlex 400 Frames C-H

Dimensions are in mm and (in.). Weights are in kg and (lb).

IP40/UL Type 1

Change Mount for Frame C (IP40/UL Type 1/UL Type 1)



Weights include drive and enclosure.

Specifications, Fuses and Circuit Breakers

Frame	Output Rating	Input Rating	Breaker Protection	Fuse Rating
100	0.5 to 1.5 kW	1.5 to 2.0 kW	100	100
150	2 to 3 kW	3 to 4 kW	150	150
200	4 to 7.5 kW	7.5 to 10 kW	200	200
250	10 to 15 kW	15 to 20 kW	250	250
300	20 to 30 kW	30 to 40 kW	300	300
350	40 to 60 kW	60 to 80 kW	350	350
400	75 to 110 kW	110 to 150 kW	400	400
450	150 to 225 kW	225 to 300 kW	450	450
500	300 to 450 kW	450 to 600 kW	500	500
550	750 to 1100 kW	1100 to 1500 kW	550	550
600	1500 to 2250 kW	2250 to 3000 kW	600	600

- 1. Recommended frame size is based on the input power and the ambient temperature.
- 2. Refer to the NEMA Motor Selection Chart for more information.
- 3. The frame and mounting capacity required for your application.
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Allen Bradley Powerflex 400 User Manual

Gerhard Schnell, Bernhard Wiedemann

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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