

ADD-A-PHASE® Type K-Duo Phase Converters



Type K-DUO ADD-A-PHASE static three-phase converter will operate multiple motors to their full load rating, plus normal overload. It also limits inrush current when the motors are starting, a critical factor on most single phase lines. Type K-DUO can be adjusted to provide balanced currents to multiple motors operating at a constant horsepower load.

Other units can be designed to handle three to five motors either separately or simultaneously. Variations are available to handle motors with higher than standard FLA ratings, motors with different HP ratings, and other applications.

This family of converters offers redundancy in critical applications – any failure in one of the converters leaves the others to operate the system until repairs can be made.

Applications

- Compressors – air conditioning and associated motors
- General applications
- Sewage lift stations/booster pumps

1Ø Full-load Amp Rating *

Converter** Horsepower	Load Motor Horsepower	Type 2K	Type 3K	Type4K
3	(2) 1.5	14 A	14 A	8 A
4	(2) 2	18 A	18 A	12 A
6	(2) 3	26 A	26 A	14 A
10	(2) 5	40 A	40 A	20 A
15	(2) 7.5	60 A	60 A	30 A
20	(2) 10	80 A	80 A	40 A
30	(2) 15	120 A	120 A	60 A
40	(2) 20	160 A	160 A	80 A
50	(2) 25	190 A	190 A	96 A
60	(2) 30	230 A	230 A	116 A
80	(2) 40	300 A	300 A	150 A

* 3Ø motor starter must be a full-amperage across-the-line start without 3Ø voltage monitoring

** For Types K-SUB & K-AC, use the next larger converter HP rating

Series

- K-SUB: Operate 2 pump motors with higher than standard FLA rating
- K-AC: Operate 2 air conditioning compressor motors
- K-SP: Operate 2 motors with different HP ratings
- K-8: Operate 2 motors at 208 V output
- L: Operate 3 motors (trio)
- Q: Operate 4 motors (quad)
- N: Operate 5 motors (penta)

Specifications

Starting Current:	Approximately 300% of 1Ø input FLA
Single Phase (1Ø) Input Voltage:	Model 2K: 240 V
	Model 3K: 240 V
	Model 4K: 480 V
Three Phase (3Ø) Output Voltage:	Model 2K: 240 V
	Model 3K: 480 V
	Model 4K: 480 V

Enclosure Size & Approximate Shipping Weights

Enclosure	Horsepower	Type 2K Weight	Type 3K Weight	Type 4K Weight
107	3	90 lbs.	115 lbs.	100 lbs.
	4	140 lbs.	162 lbs.	150 lbs.
	6	170 lbs.	195 lbs.	180 lbs.
115	10	205 lbs.	245 lbs.	210 lbs.
130	15	270 lbs.	310 lbs.	290 lbs.
	20	321 lbs.	365 lbs.	325 lbs.
	30	388 lbs.		420 lbs.
150	30		550 lbs.	
	40	568 lbs.	655 lbs.	590 lbs.
	50	622 lbs.		670 lbs.
175	50		725 lbs.	
	60	685 lbs.	810 lbs.	715 lbs.
	80	750 lbs.	943 lbs.	840 lbs.

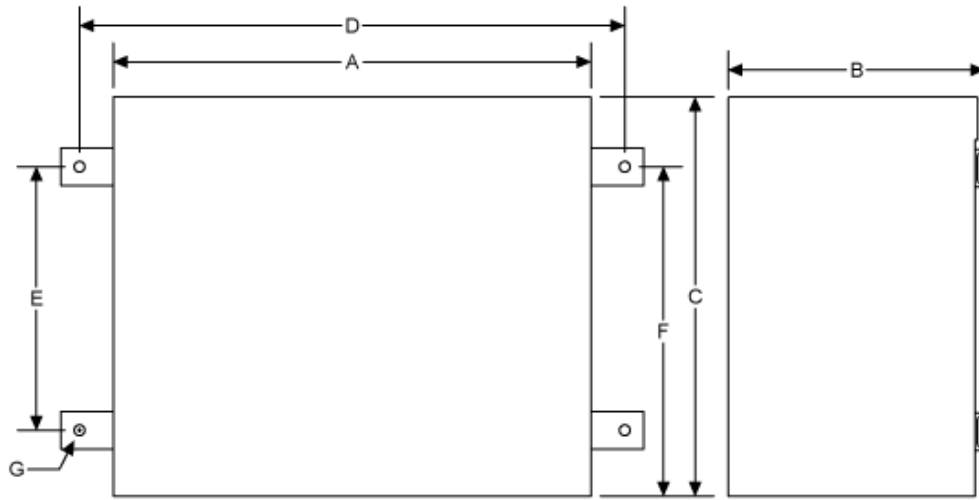
RONK

Sales Information: 1-800-221-7665 • Service and Support: 1-217-563-8333

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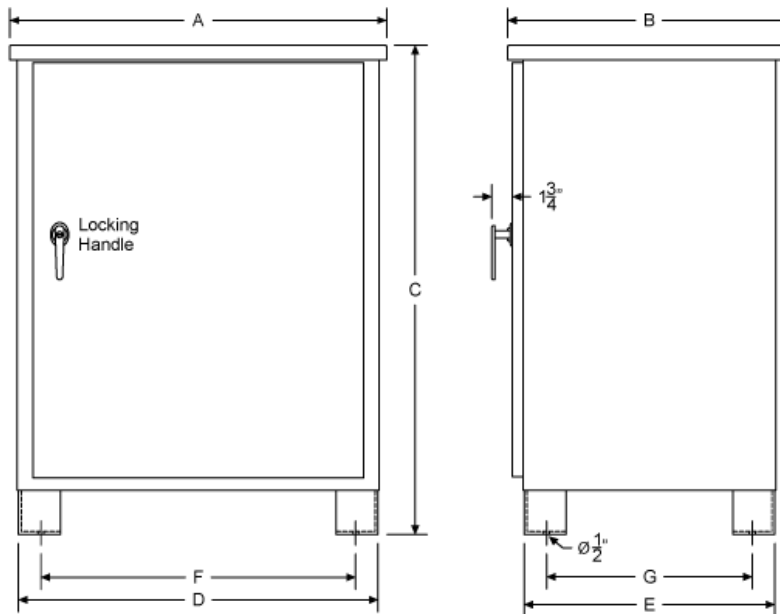
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Nema 3R Enclosures: Frames 107, 115 & 130 (in inches)



Enclosure	Applies to converter sizes:	A	B	C	D	E	F	G
107	3 HP – 6 HP (Types 2K, 3K & 4K)	22-1/4 in.	12-7/8 in.	18-5/8 in.	26 in.	11-1/2 in.	15 in.	9/16 in.
115	10 HP (Types 2K, 3K & 4K)	25-1/2 in.	14 in.	21-1/4 in.	29 in.	14 in.	17-1/2 in.	9/16 in.
130	15 HP – 30 HP (Types 2K & 4K) 15 HP – 20 HP (Type 3K)	28-3/4 in.	16-1/2 in.	26-3/4 in.	32-1/4 in.	17-5/8 in.	22-1/8 in.	9/16 in.

Padmount Enclosures



Enclosure	Applies to converter sizes:	A	B	C	D	E	F	G
150	30 HP – 40 HP (Type 3K) 40 HP – 50 HP (Types 2K & 4K)	32 in.	22-7/8 in.	40-7/8 in.	30 in.	21 in.	27-1/2 in.	18-1/2 in.
175	50 HP – 80 HP (Type 3K) 60 HP – 80 HP (Types 2K & 4K)	38 in.	28-7/8 in.	40-7/8 in.	36 in.	27 in.	33-1/2 in.	24-1/2 in.

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