

ADD-A-PHASE®

TYPE K-DUO PHASE CONVERTER

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 two 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.

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 208V output
- L: Operate 3 motors (trio)
- Q: Operate 4 motors (quad)
- N: Operate 5 motors (penta)



APPLICATIONS

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

SPECIFICATIONS

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

1Ø FULL-LOAD AMP RATING*

Converter** Horsepower	Load Motor Horsepower	Type 2K	Type 3K	Type 4K
3 HP	2x1.5 HP	14A	14A	8A
4 HP	2x2 HP	18A	18A	12A
6 HP	2x3 HP	26A	26A	14A
10 HP	2x5 HP	40A	40A	20A
15 HP	2x7.5 HP	60A	60A	30A
20 HP	2x10 HP	80A	80A	40A
30 HP	2x15 HP	120A	120A	60A
40 HP	2x20 HP	160A	160A	80A
50 HP	2x25 HP	190A	190A	96A
60 HP	2x30 HP	230A	230A	116A
80 HP	2x40 HP	300A	300A	150A

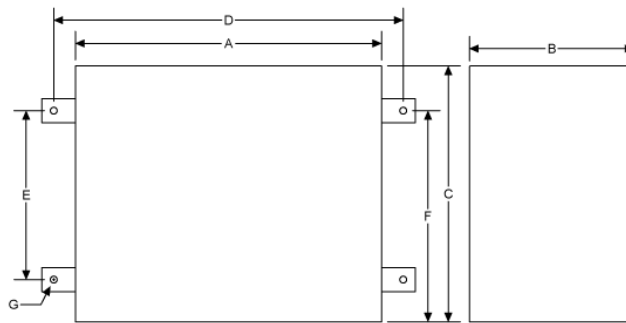
* 3Ø motor starter must be a full-amperage across-the-line start without 3Ø voltage monitoring

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

ENCLOSURE SIZE & APPROXIMATE SHIPPING WEIGHT

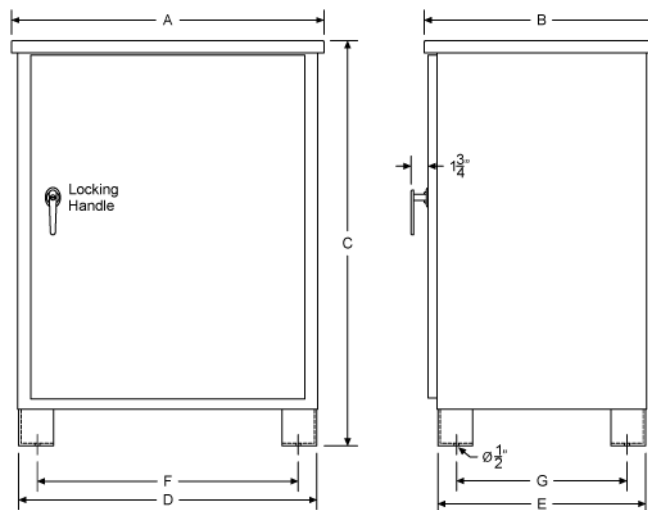
Enclosure	Horsepower	Type 2K Weight	Type 3K Weight	Type 4K Weight
107	3	90 lbs.	115 lbs.	100 lbs.
	4	140 lbs.	162 lbs.	150 lbs.
	6	170 lbs.	195 lbs.	180 lbs.
115	10	205 lbs.	245 lbs.	210 lbs.
	15	270 lbs.	310 lbs.	290 lbs.
130	20	321 lbs.	365 lbs.	325 lbs.
	30	388 lbs.		420 lbs.
	30		550 lbs.	
150	40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

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 (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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