

# PHASE



# OMEGA



SINGLE-PHASE INPUT & OUTPUT | 120 V & 240 V  
NEMA 3R OUTDOOR ENCLOSURE | 1/3-2 HP



## Physical / Environmental

|                             |                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature Range | -18 °C – 50 °C (0 °F – 122°F)<br>*Heater in enclosure is required below -18 °C and 0 °F, de-rating required above 40 °C |
| Storage Temperature Range   | -25 °C to 74 °C (-13 °F to 165 °F)                                                                                      |
| Enclosure                   | NEMA Type 3R: Outdoor   Rainproof                                                                                       |
| Altitude                    | Derate by 5 °C every 2000 ft over 5500 ft of elevation                                                                  |

## Input Power

|                     |                                 |
|---------------------|---------------------------------|
| Input Phase         | Single-Phase                    |
| Input Voltage       | 120   240 VAC                   |
| Input Voltage Range | 90 V to 160 V<br>180 V to 260 V |
| Max Input Current   | 24 A                            |
| Input Frequency     | 60 Hz                           |

## Output Power

|                     |                |
|---------------------|----------------|
| Output Phase        | Single-Phase   |
| Output Voltage      | Equal to Input |
| Output Frequency    | 5 Hz – 120 Hz  |
| Horsepower          | 1/3 HP - 2HP   |
| Max Output Current  | 14 A           |
| Output Power        | 1.5 kW         |
| Switching Frequency | 2 kHz – 8 kHz  |
| Output              | V/f control    |

## Electrical

|                                |                            |
|--------------------------------|----------------------------|
| Short Circuit Withstand Rating | 25 kA RMS Symmetrical Amps |
| Efficiency                     | > 98%                      |
| Startup Ramp Time              | 1 – 120 s                  |
| Shutdown Ramp Time             | 1 – 120 s or Coast to Stop |
| Overload Capacity              | 150% for 2s                |



## Analog Inputs

|                     |                        |
|---------------------|------------------------|
| Quantity            | (3) Programmable       |
| Current Reference   | 4-20 mA, (2) Inputs    |
| Voltage Reference   | 0 to 10 VDC, (1) Input |
| Terminal Block Size | 26 to 16 AWG           |

## Digital Inputs

|                     |                              |
|---------------------|------------------------------|
| Quantity            | (2) Programmable             |
| Ratings             | < 5 V, galvanically isolated |
| Terminal Block Size | 26 - 16 AWG                  |

## Relay Outputs

|                     |                               |
|---------------------|-------------------------------|
| Quantity            | (2) Programmable              |
| Ratings             | 30 VDC or 277 VAC, 10 A Relay |
| Terminal Block Size | 26 - 16 AWG                   |



## 120 V

120 V

| Motor Horsepower | Rated Current | Fuse/Circuit Breaker Rating<br>(Recommended) |
|------------------|---------------|----------------------------------------------|
| 1/3              | 8 A           | 10 A                                         |
| 1/2              | 12 A          | 15 A                                         |
| 1                | 24 A          | 25 A                                         |

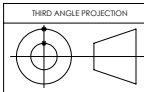
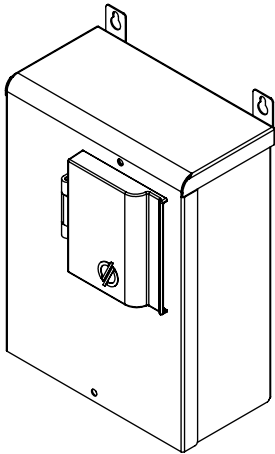
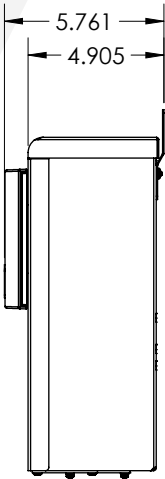
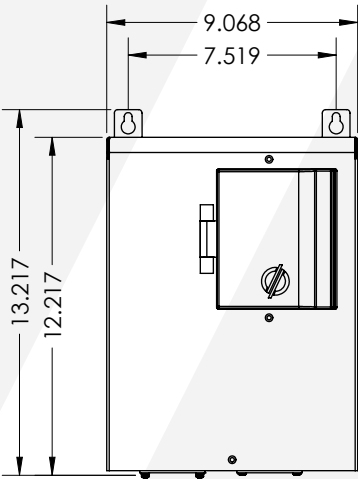
## 240 V

240 V

| Motor Horsepower | Rated Current | Fuse/Circuit Breaker Rating<br>(Recommended) |
|------------------|---------------|----------------------------------------------|
| 1/2              | 6 A           | 10 A                                         |
| 3/4              | 9 A           | 15 A                                         |
| 1                | 12 A          | 15 A                                         |
| 1.5              | 18 A          | 25 A                                         |
| 2                | 24 A          | 30 A                                         |



Omega Drive 1/3 - 2 HP



MASS = 0.000lb

Drawing Title:

Omega Drive

Part Number:

Revision:

0

Material:

Finish:

None

Drawn by:

JK (Marketing)

Checked/Approved by:

Scale:

1:8

Sheet:

1 of 1

Date:

12/05/2025

Units:

IN

UNLESS OTHERWISE SPECIFIED:  
NO DIM,  $\pm 0.060$ " TO MODEL  
0.XX:  $\pm 0.02$ " 0.XXX:  $\pm 0.010$ "  
ANGLES:  $\pm 1^\circ$   
HOLE  $\varnothing$ :  $\pm 0.020$ " TO MODEL  
HOLE  $\varnothing$ :  $\pm 0.010$ " TO MODEL



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INTUITIVELY ENGINEERED



**DIGITAL PHASE  
CONVERTERS**

**VARIABLE  
FREQUENCY  
DRIVES**

**MOTOR  
PROTECTION**

**SOFT  
STARTER**

**508A  
PANEL  
SHOP**

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