

# P2 Series Variable Frequency Drive Datasheet

Model: P2-46400-3H04N-T

**40 HP (30 kW), 41 A, 500-600 V, 3PH**  
**IP55 Variable Frequency Drive with TFT Display**

## Input Ratings

Supply Voltage	500-600 V
Input Phases	3
Supply Current Continuous	49.5 A
Supply Fuse or MCB (Type B)	63 A

## Output Ratings

Motor Output Rating	40 HP (30 kW)
Output Voltage	0 to Supply Voltage
Output Current	41 A

## Cable Information

Max Supply Cable Size	6 AWG (16 mm <sup>2</sup> )
Max Motor Cable Size	6 AWG (16 mm <sup>2</sup> )
Max Motor Cable Length	328 ft (100 m)

## Factory Build Options

EMC Filter	No Internal EMC
Brake Transistor	Internal
Minimum Brake Resistance	22 Ω
Enclosure	NEMA 12 (IP55)
Display	TFT Display
PCB Coating	Standard

## Drive Dimensions

Size	4
Height	17.72 in (450mm)
Width	6.73 in (171mm)
Depth	9.92 in (252 mm)
Weight	25.35 lbs (11.5 kg)
Fixings	4 x M8

## Packaged Dimensions

Height	20.08 in (510mm)
Width	9.45 in (240mm)
Depth	12.99 in (330mm)
Weight	29.76 lbs (13.5 kg)

Drive color depicted doesn't reflect actual drive color  
Black Outershell - RAL Name: Jet Black | RAL Number: 9005 | Hex Code #0A0A0A  
Gray Door - RAL Name: Traffic White | RAL Number: 9016 | Hex Code #F6F6F6



## Environmental Ratings

Humidity	14 - 104°F (-10 - 40°C) With Derating: 104 - 122°F (40 - 50°C)
Altitude	<= 1000m With Derating: <= 4000m