

# P2 Series Variable Frequency Drive Datasheet

Model: P2-46300-3H042-T

**30 HP (22 kW), 34 A, 500-600 V, 3PH**  
**IP20 Variable Frequency Drive with TFT Display**

## Input Ratings

Supply Voltage	500-600 V
Input Phases	3
Supply Current Continuous	41.2 A
Supply Fuse or MCB (Type B)	50 A

## Output Ratings

Motor Output Rating	30 HP (22 kW)
Output Voltage	0 to Supply Voltage
Output Current	34 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	IP20
Display	TFT Display
PCB Coating	Standard

## Drive Dimensions

Size	4
Height	16.46 in (418mm)
Width	6.77 in (172mm)
Depth	9.45 in (240 mm)
Weight	20.28 lbs (9.2 kg)
Fixings	4 x M8

## Packaged Dimensions

Height	13.39 in (340mm)
Width	11.02 in (280mm)
Depth	22.05 in (560mm)
Weight	24.69 lbs (11.2 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 - 122°F (-10 - 50°C)
Altitude	<= 1000m With Derating: <= 4000m