

# P2 Series Variable Frequency Drive Datasheet

Model: P2-56050-3H04N-T

**50 HP (37 kW), 54 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	62.2 A
Supply Fuse or MCB (Type B)	80 A

## Output Ratings

Motor Output Rating	50 HP (37 kW)
Output Voltage	0 to Supply Voltage
Output Current	54 A

## Cable Information

Max Supply Cable Size	2 AWG (35 mm <sup>2</sup> )
Max Motor Cable Size	2 AWG (35 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	16 Ω
Enclosure	NEMA 12 (IP55)
Display	TFT Display
PCB Coating	Standard
DC Choke	Included

## Drive Dimensions

Size	5
Height	21.26 in (540mm)
Width	9.25 in (235mm)
Depth	10.63 in (270 mm)
Weight	50.71 lbs (23 kg)
Fixings	4 x M8

## Packaged Dimensions

Height	23.43 in (595mm)
Width	13.78 in (350mm)
Depth	14.76 in (375mm)
Weight	55.12 lbs (25 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