W2D225-EB14-01 ebm-papst 400/480VAC 225mm Axial Fan Datasheet

Brand: ebmpapst

SKU: 1001179519433

Category: Axial & Centrifugal Fans

Price: **$985.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/w2d225-eb14-01-ebm-papst-400-480vac-225mm-axial-fan

Product Description

ebm-papst W2D225-EB14-01 is a 400/480VAC 225mm Axial Fan optimized for high-performance thermal management in industrial drive systems and power electronics. This unit features a robust external rotor motor design with an integrated capacitor-run induction system, ensuring high structural rigidity and reduced thermal impedance during continuous operation. The aerodynamic profile of the seven-blade impeller is engineered to minimize turbulence while maintaining high static pressure. Operating at 2630RPM (50Hz) and 3070RPM (60Hz), it delivers significant airflow to dissipate heat from high-density enclosures. The IP55 rating ensures protection against dust and moisture ingress, making it a reliable solution for demanding environments requiring 80W to 125W of cooling power.

Model Number: W2D225-EB14-01
Brand: ebm-papst
Product Type: Axial Fan
Rated Voltage: 400VAC / 480VAC
Voltage Range: 380 - 480 VAC
Frequency: 50 / 60 Hz
Rated Current: 0.17A / 0.20A
Power: 80W / 125W
Rated Speed: 2630 RPM / 3070 RPM

Bearing Type: Ball Bearing
Max. Air Flow: 1200 m^3/h (706 CFM)
Max. Static Pressure: 140 Pa (0.56 inH_2O)
Dimensions: 225mm Diameter
Weight: 2.1 kg
Life Expectancy: 40,000 hours at 40°C
Ingress Protection: IP55
Insulation Class: F
Motor Type: M2D068-DF
Number of Blades: 7
Blade Material: Sheet steel, painted black
Housing Material: Die-cast aluminum
Mounting Orientation: Any
Operating Temperature: -25°C to +70°C
Certifications: CE, VDE, UL, CSA
Protection Features: Thermal overload protector (TOP) wired internally

W2D225-EB14-01 Applications
1. VFD Spindle Inverters: High static pressure capability allows for efficient heat extraction through the dense fin structures of industrial frequency converters.
2. Industrial Control Cabinets: The IP55 rating and high-voltage compatibility make it an ideal replacement fan for ruggedized electrical enclosures in harsh manufacturing environments.
3. Power Transformer Cooling: Optimized for overcoming high system impedance in confined transformer housings to prevent thermal derating.

Supplemental Images