

3214JH3-195 ebmpapst 24V DC Axial Fan

SKU: 3214JH3-195

Price: \$76.25

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/3214jh3-195-ebmpapst-24v-dc-axial-fan/>

Product Description

The ebmpapst 3214JH3-195 is a compact DC axial fan measuring 92x92x38mm. It is equipped with ball bearings and designed for air outlet over struts, rotating clockwise when viewed toward the rotor. This fan operates on a nominal voltage of 24VDC, with a broad operating voltage range from 18VDC to 26VDC. At its nominal 24VDC, it achieves a speed of 10500RPM, with a power consumption of 32W, a current draw of 1350mA, and provides a maximum free-air flow of 230m³/h. The maximum static pressure is 550Pa.

The fan's housing and impeller are both constructed from plastic. It generates a sound power level of 7.5bel(A) at its optimal operating point (120m³/h @ 218Pa) and a sound pressure level of 66.0dB(A) at free air. The 3214JH3-195 features a 2-wire electrical connection, speed-controlled electronic functions, reversed polarity protection via a rectifying diode, and auto-restart locked rotor protection. The fan is designed for operation within ambient temperatures ranging from -20°C to 55°C, and its transport/storage temperature range is -40°C to 80°C. Electrical connection is made via wires, with a lead length of 310mm, using AWG 24 wires with 1.55mm insulation diameter. It has a Protection Class III and is approved by CE, EAC, UL (UL507), and CSA (C22.2 No. 113). The expected service life (L10) is 45000 hours at 40°C and 30000 hours at maximum temperature. This fan is ideal for demanding cooling applications in compact electronic enclosures and industrial systems requiring high airflow and static pressure, particularly well-suited for cooling telecommunications equipment, servers, networking devices, power supplies, and industrial control cabinets in environments with controlled temperature and humidity, where direct water exposure is avoided.

3214JH3-195 Fan Parameters

Model: 3214JH3-195

Manufacturer: ebmpapst

Fan type: Fan

Voltage range: 18 V .. 26 V

Nominal voltage: 24.0 V
Power consumption (at 24V): 32 W
Current consumption (at 24V): 1350 mA
Speed (at 24V): 10.500 1/min
Starting current consumption: ≤ 5.000 mA
Electronic function: Speed-Controlled
Reversed polarity protection: Rectifying diode, $I_F \leq 10$ mA
Locked rotor protection: Auto restart
Locked rotor current at U_n : approx. 3.500 mA
Clock signal t_3/t_4 at locked rotor: Typical: 0.3 s / 10.0 s
Electrical connection: 2 wires
Lead wire length: 310 mm
Lead wire length tolerance: ± 10.0 mm
Wire size (AWG): 24
Insulation diameter: 1.55 mm
Wire 1 color: Red
Wire 1 operation: + UB
Wire 2 color: Blue
Wire 2 operation: GND
Rotating direction looking at rotor: Clockwise
Airflow direction: Air outlet over struts
Bearing system: Ball bearing
Mounting position: Any
Width: 92.0 mm
Height: 92.0 mm
Depth: 38.0 mm
Mass: 0.240 kg
Housing material: Plastic
Impeller material: Plastic
Max. torque when mounted across both mounting flanges: 30 Ncm (wire outlet corner and remaining corners)
Screw size: ISO 4762-M4 degreased, without an additional brace and without washer
Max. free-air flow: 230.0 m³/h
Max. static pressure: 550 Pa
Optimal operating point: 120.0 m³/h @ 218 Pa
Sound power level at the optimal operating point: 7.5 bel(A)
Sound pressure level at free air flow: 66.0 dB(A)
Min. permitted ambient temperature T_U min.: -20 °C
Max. permitted ambient temperature T_U max.: 55 °C
Min. permitted storage temperature T_L min.: -40 °C
Max. permitted storage temperature T_L max.: 80 °C
Humidity requirements: humid heat, constant; according to DIN EN 60068-2-78, 14 days

Pollution degree: 1 (according DIN EN 60664-1)

Dielectric strength (Type test): 500 VAC/1 Min.

Dielectric strength (Routine test): 500 VAC/1 Sec.

Isolation resistance: > 10 MOhm

Clearance / creepage distance: 1.0 mm / 1.2 mm

Protection class: III

Life expectancy L10 at TU = 40 °C: 45.000 h

Life expectancy L10 at TU max.: 30.000 h

Approval: CE; EAC; UL (UL507, Electric Fans); CSA (CSA audited by UL according to C22.2 No. 113 Fans and Ventilators)

Weight: 0.240 kg

Application: Ideal for demanding cooling applications in compact electronic enclosures and industrial systems requiring high airflow and static pressure. This fan is particularly well-suited for cooling telecommunications equipment, servers, networking devices, power supplies, and industrial control cabinets in environments with controlled temperature and humidity, where direct water exposure is avoided.

Product Images







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