



2218F/2TDH4OR-225 ebmpapst

Brand: ebmpapst

SKU: 2218F/2TDH4OR-225

Category: Axial Fans

URL: <https://www.fansco.com/item/2218f-2tdh4or-225-ebmpapst/>

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Product Description

2218F/2TDH4OR-225 ebmpapst 48VDC 1.20CFM 74dB(A) 103W 2.15A 44Pa Ball Bearing 4 WireLeads Axial fan

2218F/2TDH4OR-225

The 2218F/2TDH4OR-225 is a DC axial fan by ebm-papst featuring ball bearings, counterclockwise rotation, and air discharge over struts with flexible mounting in any position. Its mechanical specifications include 200×200×51mm dimensions, 220mm diameter, 1.06kg weight, a metal housing with a plastic impeller, and AWG20 wires (red for +UB, blue for -GND, yellow for CONTR, white for Tacho) with plug connections. Electrical parameters cover a 36–72VDC voltage range, 76–108W power consumption, 1.5–2.1A current, and up to 6500rpm speed at 48VDC nominal voltage, supporting PWM (1–10kHz frequency, typical 2kHz) and 0–10V analog voltage speed control. It includes reverse polarity protection (residual current $\leq 5\text{mA}$), auto-restart for blocked rotor (3s/10s cycle), an inrush current limiter (2s start-up delay), and a Littelfuse 10A fast-acting fuse.

Aerodynamically, it delivers 1220m³/h max. free-air flow and 1170Pa static pressure, with an optimal point at 1200m³/h@44Pa and 74dB(A) sound pressure level. Environmental adaptability includes -20°C~65°C operation, -40°C~80°C storage, compliance with DIN EN 60068-2-30 cyclic humidity tests, pollution degree 2, and vibration/shock resistance per IEC 60068 standards. Certified for EAC, UL, VDE, CSA, and CCC with protection class I, it has >10M Ω insulation resistance and L10 service life of 70,000 hours at 40°C (117,500 hours per IPC 9591), suitable for variable-speed heat dissipation in industrial ventilation and high-heat equipment.

Technical Specifications

Attribute	Value
Moder Number	2218F/2TDH4OR
Manufacturer	ebm-papst
Voltage Rating	48 VDC
Dimensions	200x51 mm
Fan Speed	6500 RPM
Fan Type	DC
Bearing Type	Ball Bearing

Air Flow	1.20 CFM
Noise Level	74 dB(A)
Power Rating	103 W
Weight	1.06 kg
Current Rating	2.15 A
Material Blade	Plastic
Material Frame	Metal
Operating Voltage	36 ~ 72 VDC
Lifetime @ Temp	70000 Hrs @ 40°C
Air Flow CMM	0.034 m ³ /min
Approval Agency	CCC CE CSA EAC UL VDE
Operating Temperature	-4 ~ 149°F (-20 ~ 65°C)
Static Pressure Pa	44 Pa
Termination	4 Wire Leads
Subcategory	DC axial fan





