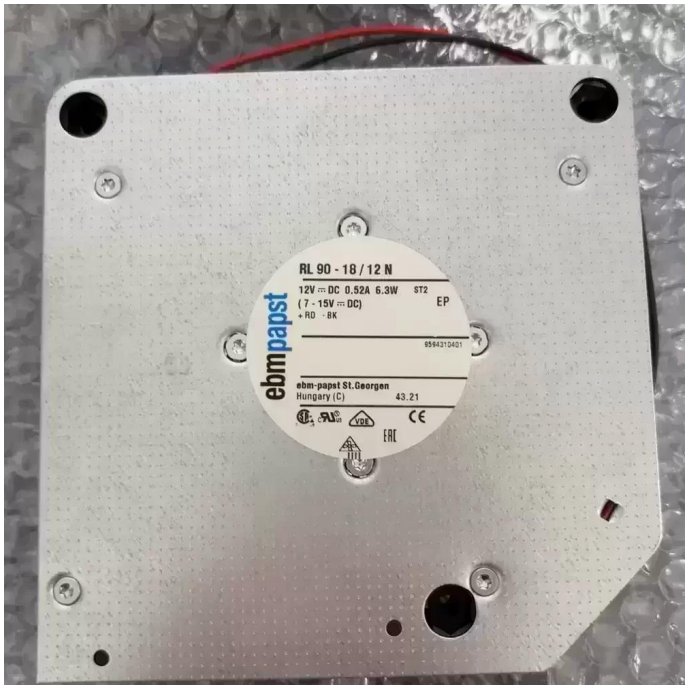
RL90-18/12N ebm-papst 12VDC 0.52A Centrifugal Blower Datasheet



Brand: ebmpapst

SKU: RL90-18/12N

Category: Axial & Centrifugal Fans

Price: **$192.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/rl90-18-12n-ebm-papst-12vdc-0-52a-centrifugal-blower

Product Description

The ebm-papst RL90-18/12N (Part Number: 9594310401) is a high-performance DC centrifugal blower engineered for rigorous thermal management. Operating at a nominal 12VDC (7-15VDC range) with a 6.3W power consumption, this compact unit delivers a precise 40 m³/h (23.5 CFM) airflow at 2500 RPM. Built with a glass-fiber reinforced plastic impeller and a robust sheet steel base, it ensures long-term reliability with a 62,500-hour L10 service life at 40°C. Advanced motor protection against reverse polarity, blocked rotor, and overloading guarantees safe operation in demanding industrial environments.

RL90-18/12N Specifications
Model Number: RL90-18/12N
Part Number: 9594310401
Brand: ebm-papst
Product Category: DC Centrifugal Fans / Radial Blowers
Nominal Voltage: 12 VDC
Operating Voltage Range: 7 to 15 VDC
Nominal Current: 0.52 A
Power Consumption: 6.3 W
Nominal Speed: 2500 RPM
Maximum Airflow: 40 m³/h (23.5 CFM)

Sound Power Level: 5.8 B (58 dBA)
Operating Temperature Range: -30°C to +75°C
Dimensions: 121 x 121 x 37 mm
Weight: 0.420 kg (420 g)
Bearing Type: Ball Bearing
Impeller Material: Glass-fiber reinforced plastic
Housing Material: Glass-fiber reinforced plastic scroll housing, sheet steel base
Airflow Direction: Axial intake, radial discharge from outlet
Service Life (L10 at 40°C): 62,500 hours
Service Life (L10 at Max Temp): 27,500 hours
Motor Protection: Reverse polarity, blocked rotor, and overload protection
Electrical Connection: 2 single leads AWG 22, TR 64 (stripped and tinned ends)
Lead Length: 310 mm
Approvals & Certifications: VDE, CSA, UL, CE, RoHS Compliant

RL90-18/12N Applications
Mandatory thermal management for variable frequency drives (VFDs), switch-mode power supplies (SMPS), and high-density telecom enclosures. Integrated directly into compact electronic chassis, industrial control cabinets, and medical analyzing equipment requiring targeted radial air exhaust and strict temperature regulation.

Supplemental Images