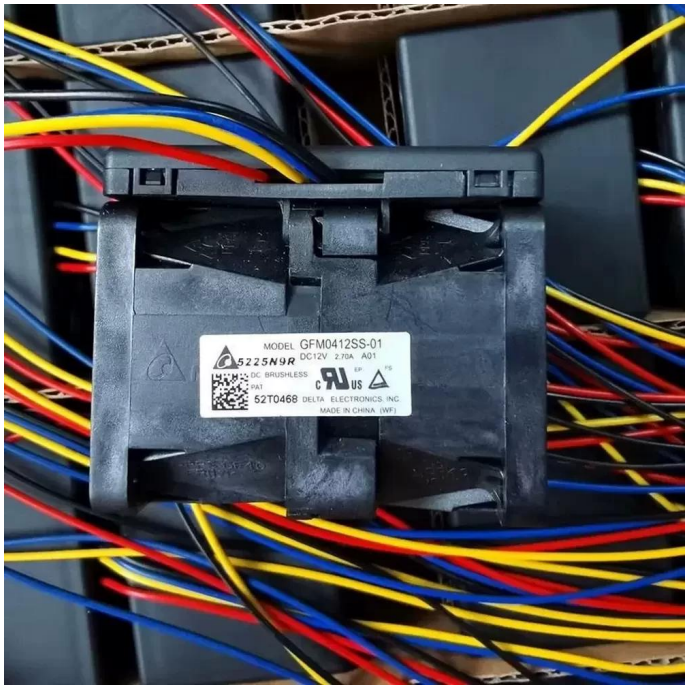
GFM0412SS-01 Delta 12VDC 40x40x56mm Counter-Rotating Fan Datasheet



Brand: Delta

SKU: 990928194353

Category: Axial & Centrifugal Fans

Price: **$14.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/gfm0412ss-01-delta-12vdc-40x40x56mm-counter-rotating-fan

Product Description

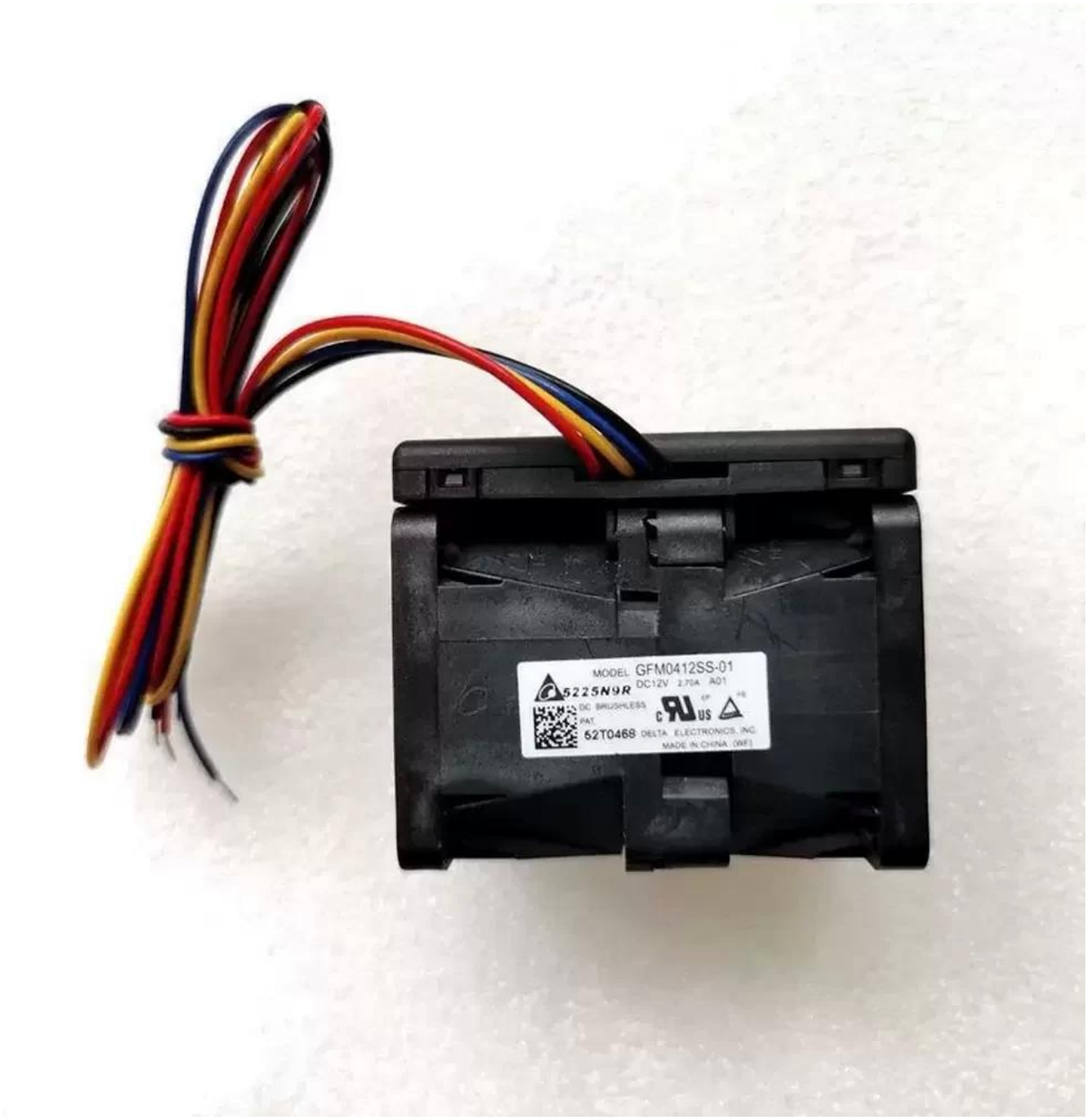
The Delta GFM0412SS-01 is a high-performance counter-rotating axial fan engineered for environments demanding exceptional static pressure and airflow density. Designed with a dual-rotor architecture within a compact 40x56mm frame, this unit utilizes contra-rotating impellers to straighten airflow trajectories, significantly reducing vortex losses and maximizing aerodynamic efficiency. The robust brushless DC motor assembly ensures structural rigidity and consistent operation under high-speed conditions, while the precision ball bearing system manages thermal impedance effectively. This configuration is specifically optimized to overcome high system resistance in dense electronic enclosures.

Model Number: GFM0412SS-01
Brand: Delta Electronics
Product Type: Counter-Rotating DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 10.8 - 13.2 VDC
Rated Current: 2.70 A
Power Consumption: 32.40 W
Rated Speed: 16000 RPM (Inlet) / 13000 RPM (Outlet)
Bearing Type: Dual Ball Bearing
Max. Air Flow: 32.5 CFM (55.2 m^3/h / 0.92 m^3/min)

Max. Static Pressure: 88.9 mmH_2O (871 Pa / 3.50 inH_2O)
Dimensions: 40 x 40 x 56 mm
Weight: 85 g
Life Expectancy: 70,000 Hours at 40°C
Termination: 5-Wire Interface
Wire Configuration: Red (+), Black (-), Blue (PWM), Yellow (Sensor), Orange (Sensor 2)
Housing Material: Reinforced Plastic PBT (UL94V-0)
Impeller Material: Reinforced Plastic PBT (UL94V-0)
Noise Level: 62.5 dB(A)
Ingress Protection: IP20
Insulation Class: Class A
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Safety Certifications: UL, cUL, TUV, CE

The GFM0412SS-01 is critical for thermal management in high-density server racks and blade chassis systems where back pressure is a significant challenge. Its compact yet powerful design allows it to drive air through dense heatsink fins in 1U servers and telecommunications equipment. Additionally, the GFM0412SS-01 is suitable for industrial automation components and precision medical devices that require sustained, high-velocity airflow to maintain optimal operating temperatures.

Supplemental Images


MODEL GFM0412SS-01
5225N9R DC12V 2.70A A01
DC BRUSHLESS FAN
52T0468 DELTA ELECTRONICS, INC.
MADE IN CHINA