

NMB 3110KL-05W-B50-PQ1

80 mm 24 VDC Ball-Bearing Axial Cooling Fan



The NMB (Minebea, NMB-MAT) 3110KL-05W-B50-PQ1 is an 80 x 80 x 25 mm brushless DC axial cooling fan running on 24 VDC. It uses long-life dual ball bearings to deliver 38.8 CFM of airflow at 3250 RPM with a low 34 dB(A) noise level, and is widely fitted as the cooling fan in variable-frequency drives (including ABB ACS510 / ACS550 inverters), industrial control panels, power supplies and telecom / networking equipment.

General / Identification

Product Type	DC axial cooling fan (tube-axial, brushless)
Manufacturer	NMB / Minebea (NMB-MAT)
Model	3110KL-05W-B50-PQ1
Frame Size	80 x 80 x 25 mm
Bearing Type	Ball bearing (dual)
Expected Life	50,000 hours at 25 C (L10)

Electrical

Nominal Voltage	24 VDC
Operating Voltage Range	10.0 - 27.6 VDC
Rated Current	0.15 A
Input Power	2.9 W
Motor Protection	Auto-restart / reverse-polarity protection
Locked-Rotor Protection	Protected up to 72 hours
Insulation Resistance	10 M ohm min. at DC 500 V
Dielectric Withstand	AC 700 V, 1 second

Performance / Airflow

Fan Speed	3250 RPM
Max. Air Flow	38.8 CFM (1.10 m3/min)
Max. Static Pressure	37.2 Pa (0.15 in H2O)
Noise Level	34 dB(A)

Mechanical & Environmental

Casing Material	Plastic, black, UL94V-0
Impeller Material	Plastic, black, UL94V-0
Net Weight	95 g
Operating Temperature	-10 C to +70 C
Storage Temperature	-40 C to +70 C

Connections & Compliance

Connection	2-wire lead, AWG24
Polarity	+ Red / - Black
Compliance	UL, CE, RoHS

Typical applications: variable-frequency / inverter drives (ABB ACS510, ACS550), control cabinets, switch-mode power supplies, telecom and networking hardware, office and industrial equipment cooling.

Specifications are taken from the manufacturer's published data and are subject to change without notice. Confirm against the current manufacturer manual before rated or safety-critical use.