

# 3115RL-05W-B60-ER2 NMB 24V 80mm IP68 DC Axial Fan

**SKU:** 3115RL-05W-B60-ER2

**Price:** \$17.00

**Categories:** Fans

**Tags:** NMB

**Product Link:**

<https://www.electspares.com/product/3115rl-05w-b60-er2-nmb-24v-80mm-ip68-dc-axial-fan/>

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## Product Description

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The NMB 3115RL-05W-B60-ER2 is an ultra-high-performance industrial DC Axial Fan with dimensions of 80 x 80 x 38 mm. Driven by a high-torque 4-pole Brushless DC Motor, this 3115RL series model is specifically engineered as a primary inverter cooling fan operating on a nominal 24 VDC. It delivers an intensified airflow performance driven by a rated current of 0.17 A and a power input of 12.0 W. This specialized version is fully IP68-rated, featuring a completely encapsulated motor and PCB to provide total protection against dust ingress and continuous immersion in water. With a specialized 9-blade aerodynamic design, it is optimized to generate extreme static pressure to overcome high-resistance airflow paths. Equipped with a premium dual-ball bearing system and a robust two-wire termination, the 3115RL-05W-B60-ER2 provides mission-critical thermal management and ultimate environmental durability for ruggedized frequency inverters and outdoor automation systems.

3115RL-05W-B60-ER2 Fan Parameters

Manufacturer: NMB (MinebeaMitsumi)

Model Number: 3115RL-05W-B60-ER2

Motor Design: Brushless DC Motor (4-Pole)

Type: DC Axial Fan (High-Torque Inverter Series)

Dimensions: 80 x 80 x 38 mm

Impeller Size: 74 mm

Nominal Voltage: 24 VDC

Operating Voltage Range: 10.0 to 27.6 VDC

Starting Voltage: 10.0 VDC

Speed: 5400 RPM

Power Input: 12.0 W

Rated Current: 0.50 A  
Max. Airflow: 78.5 CFM (133.4 m<sup>3</sup>/h)  
Max. Static Pressure: 175 Pa (0.70 inAq)  
Noise Level: 52.0 dB(A)  
Weight: 195 g  
Termination: 2 Wire Leads (Red: +, Black: -)  
Lead Wire Length: 300 mm (24 AWG)  
Bearing Type: Dual Ball Bearing  
Housing Material: Plastic (PBT, Black, UL 94V-0)  
Impeller Material: Plastic (PBT, Black, UL 94V-0)  
Number of Blades: 9  
Direction of Rotation: Clockwise (viewed toward rotor)  
Direction of Airflow: Struts Side Out (Exhaust)  
Degree of Protection: IP68 (Waterproof and Dustproof)  
Insulation Class: E  
Dielectric Strength: 500 VAC / 1 min / 5mA  
Insulation Resistance: 10M  $\Omega$  or over with a DC500V Megger  
Operating Temp. Range: -10 °C to +70 °C  
Storage Temp. Range: -40 °C to +70 °C  
Life Expectancy (L10) at 40 °C: 70,000 h  
Safety Protections: Auto-restart, Polarity protection, Locked-rotor protection  
Approvals: CE, UL, CSA, TUV, VDE

#### Application

The 3115RL-05W-B60-ER2 is primarily engineered as a high-reliability inverter cooling fan for harsh environments, essential for the forced-air thermal regulation of high-power IGBT modules in outdoor or wash-down conditions. Featuring an IP68 rating, this 3115RL-05W-B60-ER2 model is the definitive choice for outdoor solar inverters, wind turbine control cabinets, and ruggedized motor drives where exposure to rain, humidity, or fine dust is frequent. Within the confined housing of a frequency inverter (VFD), the 3115RL-05W-B60-ER2 utilizes its deep 38mm frame and 9-blade high-torque design to force airflow through dense heat sink fins, maintaining operational stability even in chemically aggressive or wet industrial settings. Its combination of high 0.50A power and extreme environmental protection ensures fail-safe cooling for mission-critical 24V industrial automation and maritime electronic systems.

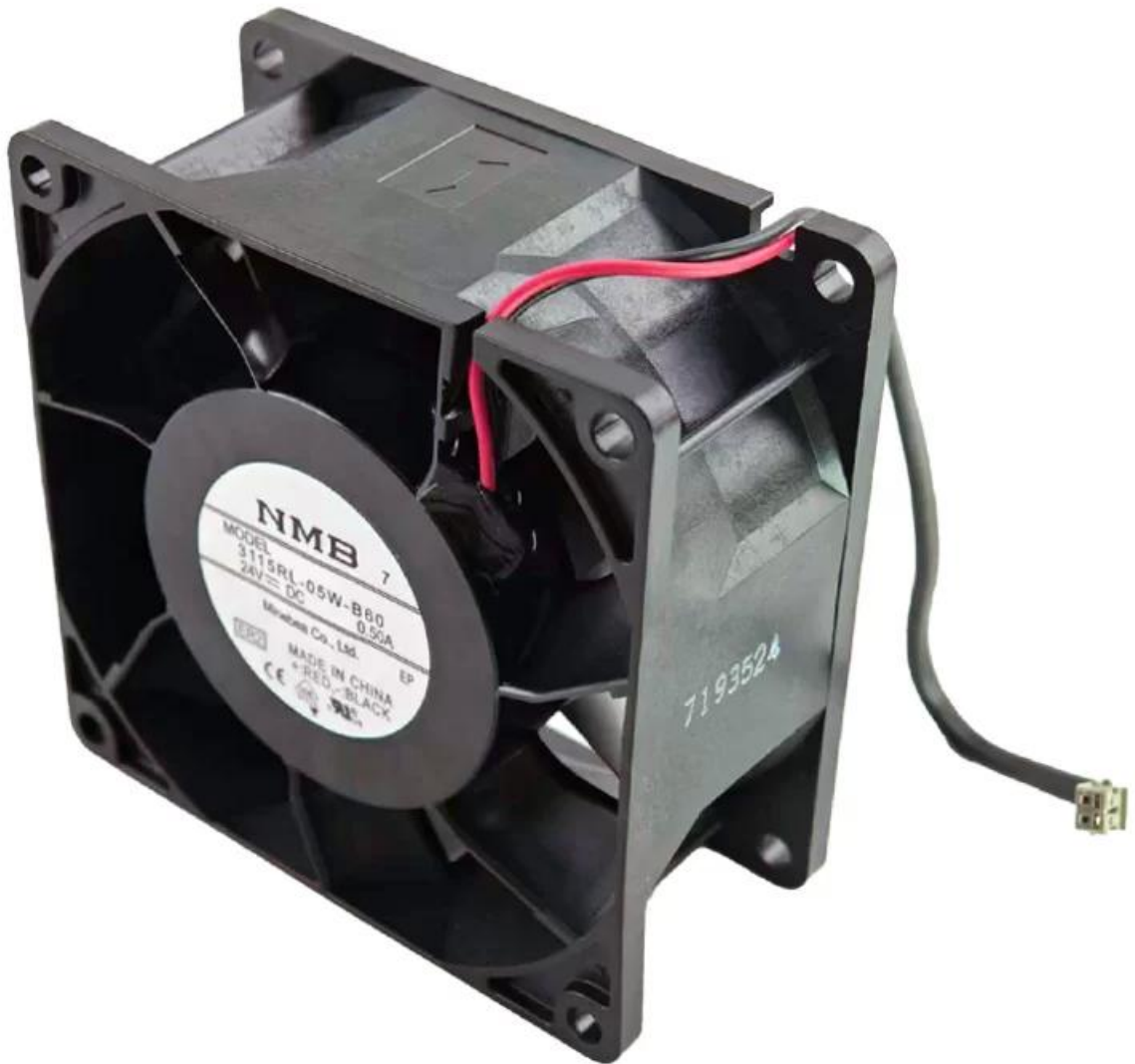
## Product Images

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