

BLDC Motor Driver 10-50V 15A

This brushless DC motor driver is designed for medium-power brushless motors. It is suitable for driving any three-phase brushless DC motor, Hall or no Hall sensor, with peak current below 15A and power supply voltage between DC10V~50V.



Overview

High-Performance Brushless DC Motor Driver

The NSPBLDS4815 is a high-tech brushless DC motor driver designed for medium-power applications in electrical automation, medical equipment, and food packaging. It features a large-scale integrated circuit design that ensures superior anti-interference performance and fast response times. Compatible with both sensed and sensorless three-phase BLDC motors, this driver offers versatile control options and robust protection features for reliable industrial operation.

Performance Specifications

Electrical Characteristics

Parameter	Value
Power Supply	DC10V-50V
Rated Current	15A
Rated Power	Max 720W
Insulation Resistance	>500M Ω
Insulation Strength	0.5KV, 1min

Key Metrics

50 V Max Voltage	15 A Rated Current	10000 rpm Max Speed
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Operating Environment

Conditions

- Operating Temperature: 0°C to +50°C
- Storage Temperature: -20°C to +65°C
- Humidity: <80%RH (no condensation)
- Cooling: Natural or forced air cooling

Features

Safety Functions

Over Current • Over Voltage • Under Voltage • Motor Block Protection

Control Features

Hall Sensor Support, Sensorless Support, 0-5V Analog Control, PWM Control (10Hz-500Hz), Directional Control, Enable/Disable Input

Dimensions

Physical Size	118 x 77 x 33.5 mm
Weight	0.3 kg