YASA-PMSM-720W-48V

High Efficiency PMSM Motor Driver

720W-48VDC

https://www.yasateknoloji.com

720W, 48VDC

Our innovation, the High Efficiency PMSM Motor Driver, is a powerhouse designed to elevate your applications to new heights. With a remarkable 720W output and operating at 12-48VDC with a peak current of 15 Ampere, this motor driver is engineered for optimal performance and efficiency.

Unlock the full potential of your Brushless DC (BLDC) motors with our cutting-edge driver, expertly designed to meet the demands of modern industrial and automation systems. Whether you're in robotics, manufacturing, or any field that requires precise motor control and accurate positioning, our BLDC Motor Driver is the key to achieving unmatched efficiency, reliability, and precision.

Explore the possibilities with our High Efficiency BLDC Motor Driver and take your projects to new horizons. This datasheet provides detailed specifications, features, and application insights to help you make an informed decision. Elevate your motor control experience – choose the best, choose innovation!

Input Voltage	12-48VDC
Commutation method	6-step pulse
Maximum Input Current	8A (T_A=100°C)
Circuit Working Temperature	0/+70°C (ambient)
Position sensor input	Digital Hall-Effect input(3 phase)
	Encoder (Incremental)
	Encoder (Absolute-BISS/SSI,binary)
OverTemperature Protection Limit	105°C (sensor included on power board, default)
Over Current Protection Limit	20A DC input
Data Logging	Up to 2 months via SD Card (optional, up to request) Driver Temperature, DC input current DC input voltage data storing

Key Features:

High Power Output: Generate up to 720W of power to meet the demands of your most robust applications.

Wide supply voltage : The BLDC driver can work on wide supply input voltage i.e. 12V to 48VDC.

8A Continuous Input DC Current: Experience seamless operation with a continuous current of 8Ampere, ensuring smooth and precise control.

Energy Efficiency: Our motor driver is designed to maximize energy efficiency, reducing power consumption without compromising performance.

Compact Design: A sleek and compact form factor allows for easy integration into your existing systems, saving valuable space.

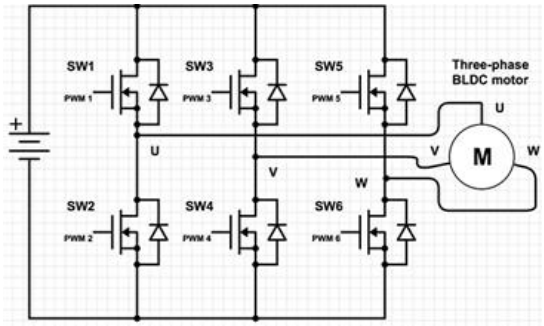
Applications:

Robotics: Perfect for high-performance robotic systems that require precision and agility.

Automation: Ideal for automated machinery, providing reliable and efficient motor control.

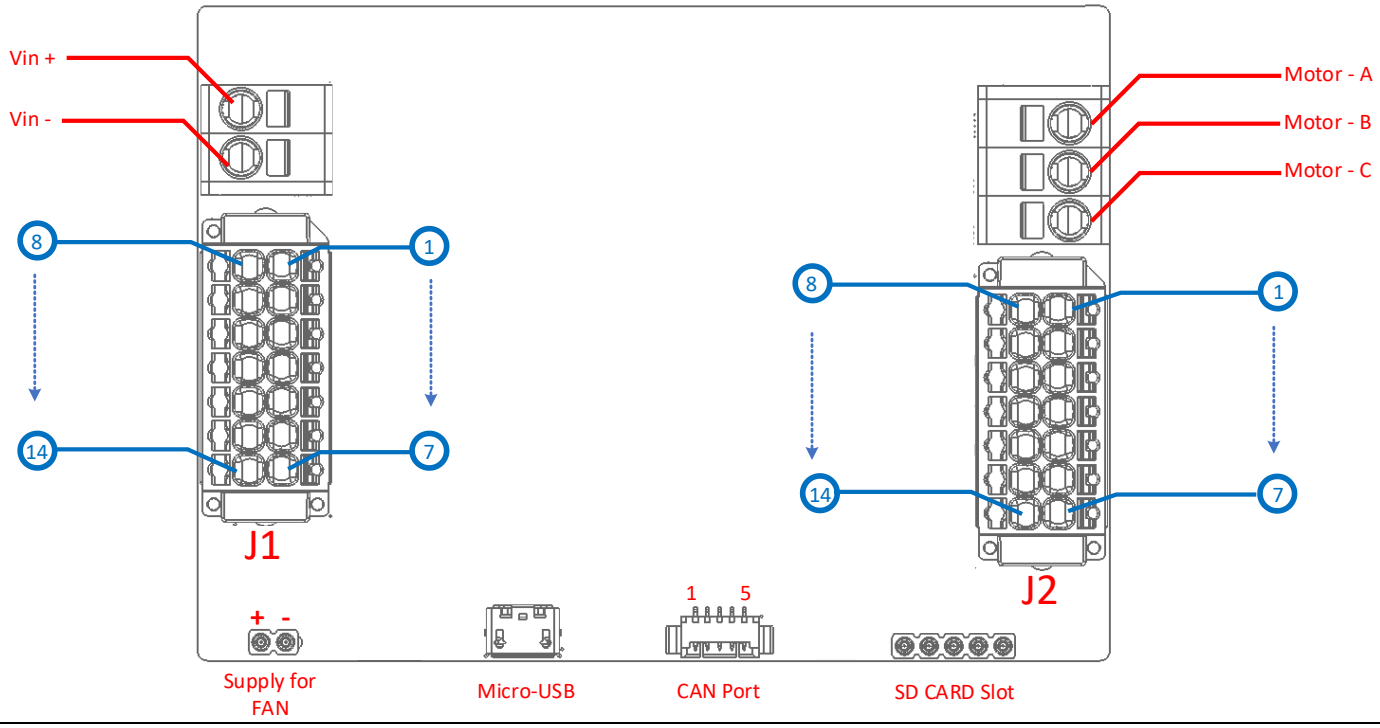
Electric Vehicles: Power electric scooters, bikes, or other small electric vehicles with confidence.

Industrial Machinery: Enhance the performance of industrial machinery and equipment with our advanced motor driver.



RoHS compliant

WIRING DIAGRAM



J1 Connector			
1848697 PHOENIX CONTACT			
1	A (Modbus)	**8**	SCL (I^2C)
2	B (Modbus)	**9**	SDA (I^2C)
3	Direction +	**10**	+5V (I^2C)
4	Direction -	**11**	GND (I^2C)
5	POT	**12**	-
6	+5V	**13**	Enable +
7	DGND	**14**	Enable -

J2 Connector			
1848697 PHOENIX CONTACT			
1	Hall-A	**8**	GND (Absolute Encoder)
2	Hall-B	**9**	D+ (Absolute Encoder)
3	Hall-C	**10**	D- (Absolute Encoder)
4	A (Incremental Encoder)	**11**	C- (Absolute Encoder)
5	B (Incremental Encoder)	**12**	C+ (Absolute Encoder)
6	Index (Incremental Encoder)	**13**	Encoder Supply (Absolute Encoder)
7	Strobe (Incremental Encoder)	**14**	+5V

CAN PORT	
53261-0571 MOLEX	
1	CAN_L
2	CAN_P
3	3.3V
4	GND
5	-

MECHANICAL DIMENSIONS