

MDS040 Series Smart Motor

Description

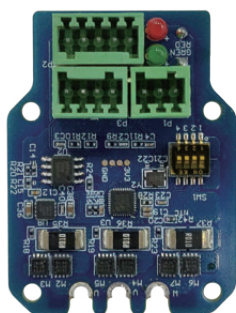
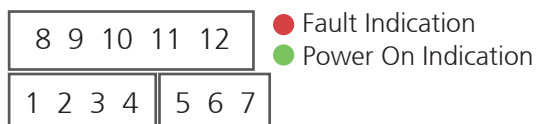
The smart motor solutions is for servo motor applications. This integrates a 40mm servo motor with a smart control module including speed mode, position mode, and torque mode. The controller provides RS485 and PULSE/DIR interface. Easy-to-use GUI software allows users to optimize the design flexibly online through the RS485 control interface. The smart motors is widely applied in AGV, Material handling, Robot and so on.



General Information

- DC18-36V Input Voltage Range
- 50, 100W Continuous Power Output
- 0.3° Position Resolution for control
- RS485 Interface and PULSE/DIR Interface
- Position, speed and torque control
- Operating Temperature: 0℃ ~ +70℃
- Selectable position, speed, and torque mode

PIN Configuration



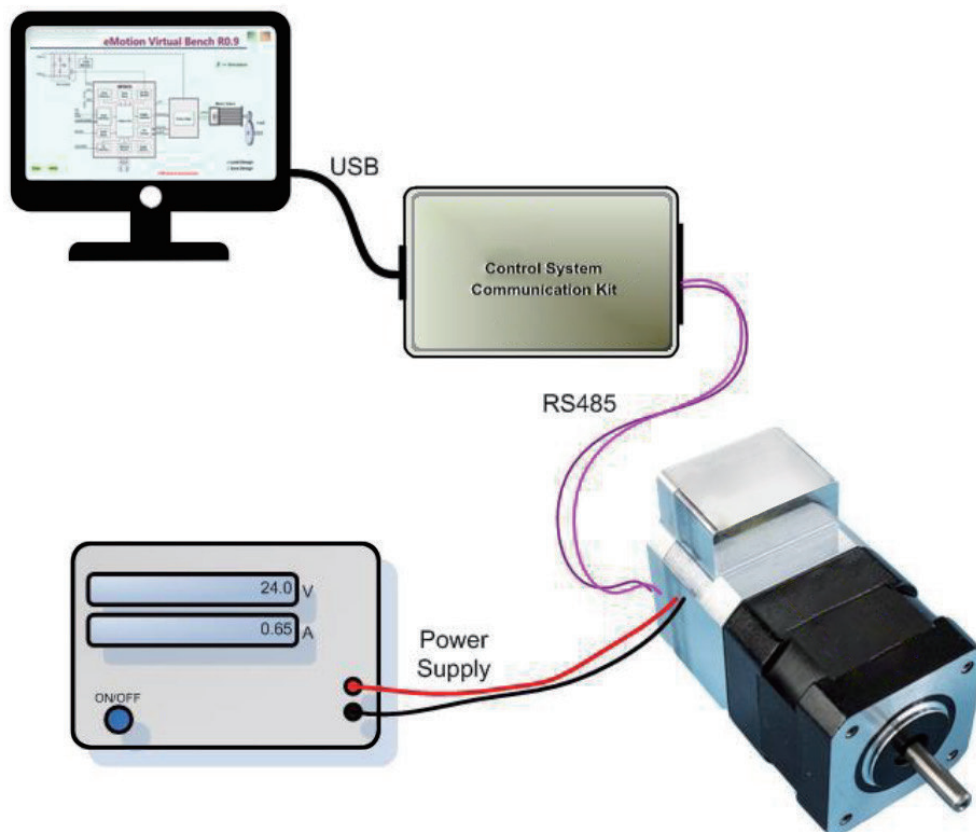
Operation Conditions

Input voltage 18V to 36 V
 Control interface voltage 0V to 5.5V
 Max pulse frequency 500kHz
 RS485 A/B voltage 0V to 5.5V
 RS485 common mode voltage ±15V
 Operation temperature..... 0℃ to 70℃
 Storage temperature -40℃ to +125℃

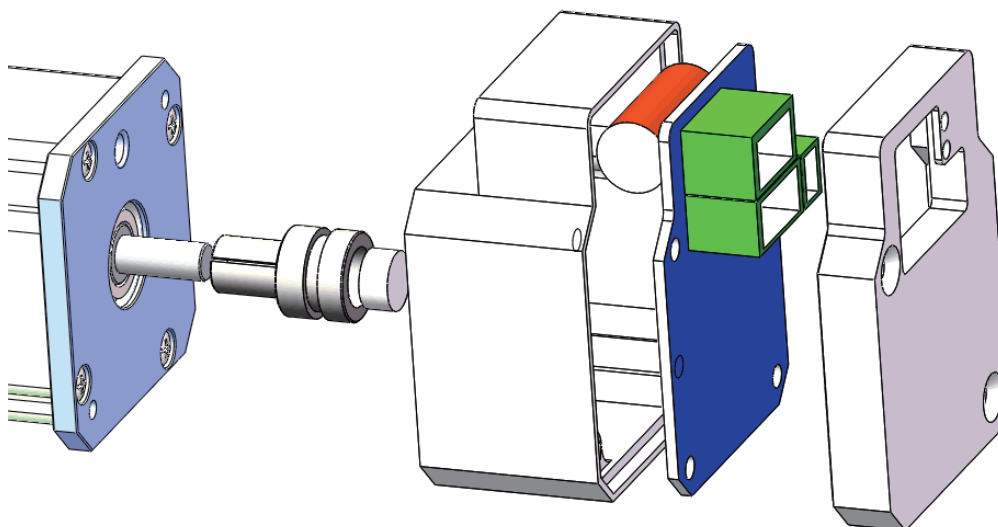
PIN	Designation	Description
RS485 Interface		
1	EXT_5V	5V Input For Firmware Programming
2	B	RS485 Node B
3	AGND	RS485 Ground
4	A	RS485 Node A
Power Interface		
5	GND	Power Ground
6	R-	Shunt Resistor Return Node
7	VIN	Input Power Supply
Control Interface		
8	COM-	Common Return
9	EN+	Enable Input
10	PEND+	Position End Output
11	PUL+	Pulse Input
12	DIR+	Direction Input

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- *Hardware connections for programming*



- *Mechanical Installation of PCB Assembly*



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Specifications

	Unit	MDS040-01	MDS040-02
Voltage	VDC	24	36
Rated Speed	RPM	3000	3000
Rated ContinuousTorque	Nm	0.16	0.32
Rated Current	A	2.8	3.8
Norminal Power	W	50	100
Length	mm	69	83

Mechanical

