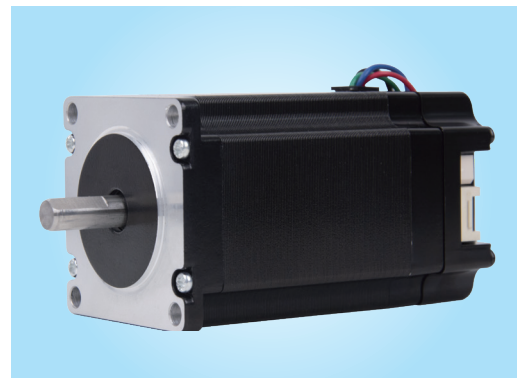


EMP57 Driver Integrated Stepper Motor



● Description

IRS57E integrated RS485 closed-loop stepper driver is the latest digital hybrid stepper servo driver with serial port debugging function, integrating MODBUS-RTU standard protocol specifications, the power supply interface adopts XH2.54-2P header, the communication interface adopts PHB2.0-2×6P header. Users can set various parameters such as subdivision, current, speed, working mode and so on through the host computer software. It greatly enriches the practical functions of the product and can meet the application requirement of most occasions.

● General Information

- DC power supply, input voltage range: DC12V~50V
- 32-bit DSP technology, with good stability, strong compatibility
- Support open and closed loop mode switching
- Support speed mode, position mode, multi-segment position mode and back to origin mode
- Parameters such as current, lock current, subdivision, PI and so on can be set and acquired through the master station
- RS485 interface with isolation, support standard MODBUS-RTU protocol
- DIP code SW1-4 sets the driver communication address, which can support 16 devices, and more can be set by the master station
- 3 optoelectronic isolation programmable input interfaces, receiving external control signals, realizing driver enablement, start and stop, limit and other functions
- Alarm protection functions such as over-current (reservation), over-voltage, under-voltage, phase loss, out-of-tolerance, etc.

● Controller Parameter

Specification	IRS57E			
	Unit	Min	Normal	Max.
Continuous output current	A	0	/	6
Input voltage	V	12	24	50
Control signal input current	mA	7	10	16
Insulation resistance	MΩ	50	/	/

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● Motor Parameter

EMP057NB							
Part No	Frame Size (mm)	Phase Current (A)	Phase Resistance (Ohms)	Phase Inductance (mH)	Holding Torque (Ncm)	Rotor Inertia (g.cm ²)	Length (mm)
EMP057NB024	57	2	1.2	3.2	55	135	60
EMP057NB222	57	2.8	0.83	2.2	100	275	69
EMP057NB331	57	1.4	3.6	10.8	117	300	75
EMP057NB417	57	2.1	2	6.5	161	480	97

● Operating Conditions

Operation ambient	Condition	No dust, no oil, no corrosive gas, Without strong vibration
	Temperature	-25°C ~ +50°C
	Humidity	40-90%RH
	Vibration	10-55Hz/0.15mm
Storage temperature		-25°C ~ +65°C

● Mechanical

