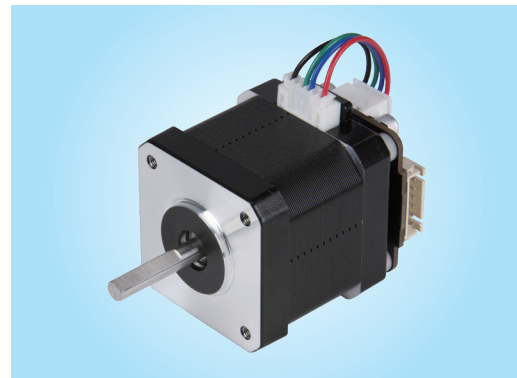


EMP42 Stepper motor with control

Description

EMP042NB series integrated 32-bit DSP control and the Angle control technology, the motor performance and efficiency can be improved. the temperature rise and vibration are lower. Them can be used in wire stripper, marking machine, cutting machine, plotter, medical equipment and automation equipment and instruments.



General Information

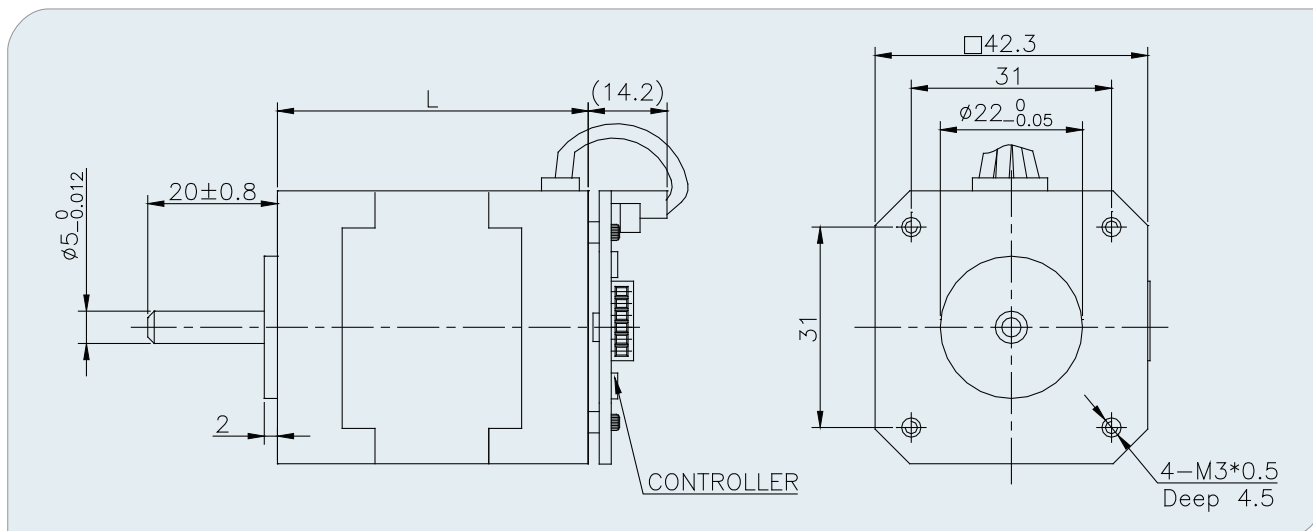
- Voltage range DC12-30V
- 32-bit DSP technology
- 200KHz maximum pulse response frequency
- Meet 3000RPM speed max.
- PU/DR control
- Over/under voltage, over current and other protection functions
- Compact design
- Easy mounting

Controller Parameter

Specification	EMP42-P			
	Unit	Min	Normal	Max
Continuous output current	A	0.8	/	3
Input voltage	V	12	24	30
Logic input current	mA	10	10	50
Logic input voltage	V	/	5	5
Pulse frequency	KHz	0	/	200
Insulation resistance	MΩ	100	/	/

EMP42 Stepper motor with control

● Motor Mechanical



● Motor parameter

Part No	Phase Current (A)	Phase Resistance (Ohms)	Phase Inductance (mH)	Holding Torque (Ncm)	Rotor Inertia (g.cm ²)	Length (mm)
EMP42NB301	1.7	1.5	3.2	44	40	40
EMP42NB501	1	4.6	4	33.3	68	48
EMP42NB502	1.5	3.15	6.15	49	68	48
EMP42NB503	2.5	1.25	1.8	48	68	48
EMP42NB601	1.2	12	35	75	68	60
EMP42NB602	1.2	6	15.6	80	114	60

● Operating Conditions

Operation ambient	Condition	No dust, no oil, no corrosive gas, Without strong vibration
	Temperature	0 - 50°C
	Humidity	40-90%RH
	Vibration	10-55Hz / 0.15mm
Storage temperature	-20°C - +80°C	