

BLDC Motor with Encoder · B1647N2B-

Applications: Precision control fields like medical instrument, industrial robot and so on.

Operating Environment: -15 ~ +45

Motor Characteristics			110-6.0-EN520256-001
Voltage	U	V	6
Terminal resistance	R	Ohm	1.6
No load speed	n_0	rpm	11000
No load current	I_0	mA	15
Stall torque	T_S	mNm	19.4
Rated torque	T	mNm	5.0
Rated speed	n	rpm	8000
Rated current	I	mA	1.2
Max output power	P_{max}	W	5
Max. efficiency	η	%	61.8
Back-EMF constant	K_E	mV/rpm	0.55
Torque constant	K_T	mNm/A	5.2
Rotor inertia	J_{Rotor}	gcm^2	1.8
Weight		g	44
Length	L	mm	47
Encoder Characteristics			
Number of channels			2
Counts per turn	cpt		256
Supply voltage	V		5
Max operating frequency	kHz		60
High level output voltage	V		2.4 Min
Low level output voltage	V		0.4 Max
Phase shift	$^\circ e$		90
Z index pulse width	$^\circ e$		—
Dimension A	mm		16
Dimension B	mm		18

Options:

Lead wires length, shaft length, special coils, gearheads, bearing type, encoder channels, encoder counts per turn

Dimension (mm) · B1647N2B-110-6.0-EN520256-001:

