

BLDC Motor · B1230N2B- · \varnothing 12 mm

Specifications Please consult your authorized sales representative for custom specifications.

Type			500-12.0-001	150-14.0-001
Rated voltage	U	V	12	14
Terminal resistance	R	Ohm	0.6	8.2
No load speed	n_0	rpm	50000	15000
No load current	I_0	mA	430	100
Stall torque	T_s	mNm	43.8	12.8
Rated torque	T	mNm	10	3.4
Rated speed	n	rpm	38400	11000
Rated current	I	mA	5000	500
Power	P_{max}	W	68	3.4
Max. efficiency	η	%	73	57
Back-EMF constant	K_E	mV/rpm	0.234	0.88
Torque constant	K_T	mNm/A	2.24	8.4
Rotor inertia	J_{Rotor}	gcm ²	0.21	0.21
Speed regulation constant	$\Delta n / \Delta T$	rpm/mNm	1142	1164
Weight		g	18	18
Length	L	mm	30	30
Operational conditions*				
Temperature range	T	°C	-20 ~ +100	
Axial force dynamic	F_{Adyn}	N	0.3	
Axial force static	F_{St}	N	10	
Radial force at 3 mm from mounting face	F_R	N	0.3	

* at 25° C

Commutation	sensorless / Hall sensor as option
Max. winding temperature	130 °C
Protection class	IP 40
Bearings	2 Ball bearings

Dimension (mm) · B1230N2B:

