

# BLDC Motor · B2040N2B- · $\varnothing$ 20 mm

**Specifications** Please consult your authorized sales representative for custom specifications.

Type			124-12.0-001	143-12.0-001
Rated voltage	U	V	12	12
Terminal resistance	R	Ohm	1.44	2.56
No load speed	$n_0$	rpm	12400	14340
No load current	$I_0$	mA	260	140
Stall torque	$T_s$	mNm	72.7	35.27
Rated torque	T	mNm	12	5.9
Rated speed	n	rpm	9000	10700
Rated current	I	mA	1570	1300
Power	$P_{max.}$	W	11	7.4
Max. efficiency	$\eta$	%	68	68
Back-EMF constant	$K_E$	mV/rpm	0.94	0.81
Torque constant	$K_T$	mNm/A	9	7.756
Rotor inertia	$J_{Rotor}$	gcm <sup>2</sup>	1.87	1.87
Speed regulation constant	$\Delta n / \Delta T$	rpm/mNm	169.8	406.4
Weight		g	62	62
Length	L	mm	40	40
<b>Operational conditions*</b>				
Temperature range	T	°C	-20 ~ +100	
Axial force dynamic	$F_{Adyn}$	N	2	
Axial force static	$F_{St}$	N	20	
Radial force at 3 mm from mounting face	$F_R$	N	3	

\* at 25°C

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

## Dimension (mm) · B2040N2B:

