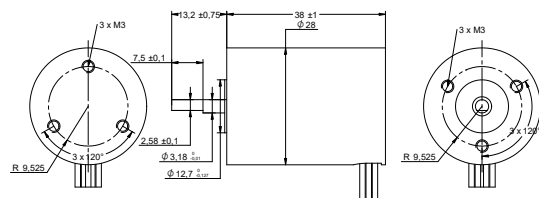


DRAWING (mm)



MODEL NO. DESIGNATION

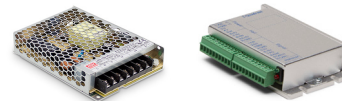
BR2838 - VOLTAGE

Example: BR2838-12

PHOTO



ACCESSORIES



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

BRUSHLESS DC MOTOR DATA		BR2838-12	BR2838-24	C
Nominal voltage	V	12	24	
Commutator hall voltage	V	5 ~ 24	5 ~ 24	
No load speed	rpm	13000	14000	
No load current	A	0.3	0.3	
Nominal speed	rpm	10000	10000	
Nominal torque	mNm	14	14	
Nominal current	A	1.4	0.9	
Start/Stall torque	mNm	45	45	
Efficiency	%	89	69	
Nominal power	W	15	15	
Terminal resistance	Ω	1.1	4.2	
Terminal inductance	mH	0.4	1.7	
Torque constant	mNm/A	10	16	
Rotor inertia	gcm ²	2.1	3.7	
Bearing type		Ball bearing		
Axial play at axial load < 3.5 N	mm	0.14		
Axial play at axial load > 3.5 N	mm	0.14		
Radial play	mm	0.02		
Max. dynamic axial load	N	2		
Max. radial load ¹	N	10		

NOTES

1. 10 mm from flange.

OTHER BRUSHLESS DC MOTOR DATA		BR2838-12	BR2838-24	C
Number of pole pairs		2	4	
Number of phases		3		
Weight	g	82		
Operating temperature	°C	-20 to 50		
Max. winding temperature	°C	130		
Motor insulation class		B		
IP rating		IP40		
Hall sensors and power harness length	mm	200		●
Power harness		UL1007 AWG26		●
Hall sensors harness		UL1007 AWG26		●
Shaft length from flange	mm	13.22		●
Shaft diameter ø	mm	3.175		
Service life	h	10000		
Manufacturing standard		ISO9001 ISO14001 TS16949		

CABLE AND PIN CONFIGURATION

Power		Hall		C
Phase	Cable color	Phase	Cable color	
U	GRN	HU	BLU	
V	RED	HV	ORG	
W	BLK	HW	BRN	
		+5V	YEL	
		GND	WHT	