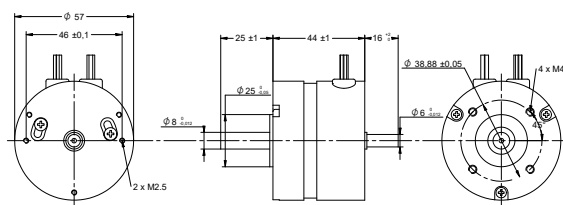


DRAWING (mm)



PHOTO

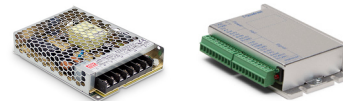


MODEL NO. DESIGNATION

BR5743 - VOLTAGE

Example: BR5743-12

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		BR5743-12	BR5743-24	C
Nominal voltage	V	12	24	
Commutator hall voltage	V	5 ~ 24	5 ~ 24	
No load speed	rpm	5800	5900	
No load current	A	1.2	0.32	
Nominal speed	rpm	4000	4000	
Nominal torque	mNm	55	55	
Nominal current	A	3.1	1.6	
Start/Stall torque	mNm	170	170	
Efficiency	%	63	61	
Nominal power	W	23	23	
Terminal resistance	Ω	0.56	2.1	
Terminal inductance	mH	1.1	4.1	
Torque constant	mNm/A	18	35	
Rotor inertia	gcm ²	30	30	
Bearing type		Ball bearing		
Axial play at axial load < 3.5 N	mm	0.025		
Axial play at axial load > 3.5 N	mm	0.025		
Radial play	mm	0.025		
Max. dynamic axial load	N	15		
Max. radial load ¹	N	75		

NOTES

1. 10 mm from flange.

OTHER BRUSHLESS DC MOTOR DATA		BR5743-12	BR5743-24	C
Number of pole pairs		2		
Number of phases		3		
Weight	g	350	250	
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	330		
Power harness		UL1430 AWG20		
Hall sensors harness		UL1430 AWG26		
Shaft length from flange	mm	25 ●		
Shaft diameter ø	mm	8		
Service life	h	10000		
Manufacturing standard		ISO9001 ISO14001 TS16949		

CABLE AND PIN CONFIGURATION				C
Power		Hall		
Phase	Cable color	Phase	Cable color	
U	YEL	HU	BLU	
V	RED	HV	GRN	
W	BLK	HW	WHT	
		+5V	RED	
		GND	BLK	