

MDC-BL-86

This motor was especially designed for applications where high torque to volume ratio is needed. It is a brushless DC motor with outer wound stator, rareearth/cobalt magnets rotor and Hall effect rotor position sensor. Peak torque obtained on the axis at nominal voltage of 28 V DC is 3.2 N*m (min). Available in different housings, or frameless. Is conform to MIL STD. Temperature range: $-40 \div +80$ [°C]. Vibration toleration: according to MIL 810. Available with or without tachogenerator, with sensitivity according to customer requirements.



Specifications

Parameter	Unit	Value	Tolerance
Nominal voltage	VDC	28	-
Peak torque	Nm	4.0	max.
Back EMF constant	V/rad/sec	0.09	±10%
No load speed	rad/sec	310	nom
Max. allowable winding temperature	°C	150	-
DC resistance	Ohm	0.12	±12.5%
Torque sensitivity	Nm/A	0.09	±10%
Inductance	mH	0.18	±30%
Dielectric withstanding voltage @ 50/60 Hz	VAC	250	min.
Insulation resistance @ 250 VDC	MOhm	100	min.
Temperature :			
- Operating	°C	-40 to +80	
- Storage		-54 to +100	
Weight	kg	1.600	-

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Brushless DC Motor

MDC-BL-43

Drawing



All dimensions are in mm

For Additional Information

To learn more about the MDC-BL-86 or other MTC products, contact MTC on +972 4 998 7772 or email marketing@mtcind.com

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