

## MDC – BLW - 3240

### Brushless Dual Motor

MDC-BLW-3240 is a Redundant DC Brushless Motor that consists of two motors in one body, sharing one rotor.

Peak torque of each motor at nominal voltage 28 VDC is 100mNm.

The important characteristic of this motor is the low Cogging Torque value - 10mNm (max).

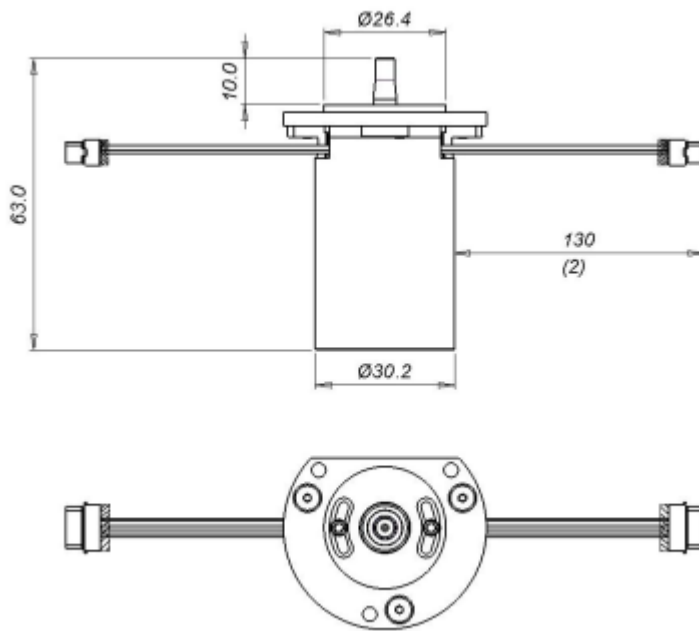
Operating temperature range of -40°- +80° C.

Vibration level according to Mil-STD-810



## Specifications

Parameter	Motor A	Motor B
Voltage	28 V	28 V
Torque Sensitivity , Kt	0.018 ± 12% Nm/A	0.018 ± 12% Nm/A
Back EMF constant , Ke	0.025 ± 10% (V/rad/Sec)	0.025 ± 10% (V/rad/Sec)
Terminal Resistance , R	4.5 ± 12% ( Ω )	4.5 ± 12% ( Ω )
Inductance , Lm	160± 30% ( μH)	160± 30% ( μH)
No load speed of rotation , no	11000 RPM	11000 RPM
Current @ no load, I <sub>o</sub>	0. 85 (A)	0.85 (A)
$\tau_e$ Electrical time constant ,	3.5 × 10 <sup>-5</sup> ± 12% (sec)	3.5 × 10 <sup>-5</sup> ± 12% (sec)
Peak Torque , T <sub>p</sub>	0.1 (Nm) max.	0.1 (Nm) max.
Current @ T <sub>p</sub>	5.5 (A) max.	5.5 (A) max.
Continuous torque	0.024 (Nm)	0.024 (Nm)
Speed of rotation @continuous torque	9500 RPM	9500 RPM
Current @continuous torque	1. 5 (A) max.	1. 5 (A) max.
Cogging torque	0.01 (Nm) max.	
Rotor moment of inertia	5.86 × 10 <sup>-6</sup> kg m <sup>2</sup>	

**MDC – BLW - 3240 (continued)****Drawing****For Additional Information**

To learn more about MDC-BLW-3240 or other MTC products, contact MTC on **+972 4 998 7772** or email **marketing@mtcind.com**