

## MDC-44

This motor was especially designed for providing motion to aerospace/military products such as servo-actuators, where high reliability and long lifetime are required, as well as durability under harsh environmental conditions. Peak torque obtained on the axis at nominal voltage of 27 V DC is 20 mNm. Conforms to MIL-STD. Temperature range: -40 ÷ +80 [°C]. Vibration toleration: according to MIL 810. This motor is available in different housings and with a shaft pinion adapted to customer's needs.



## Specifications

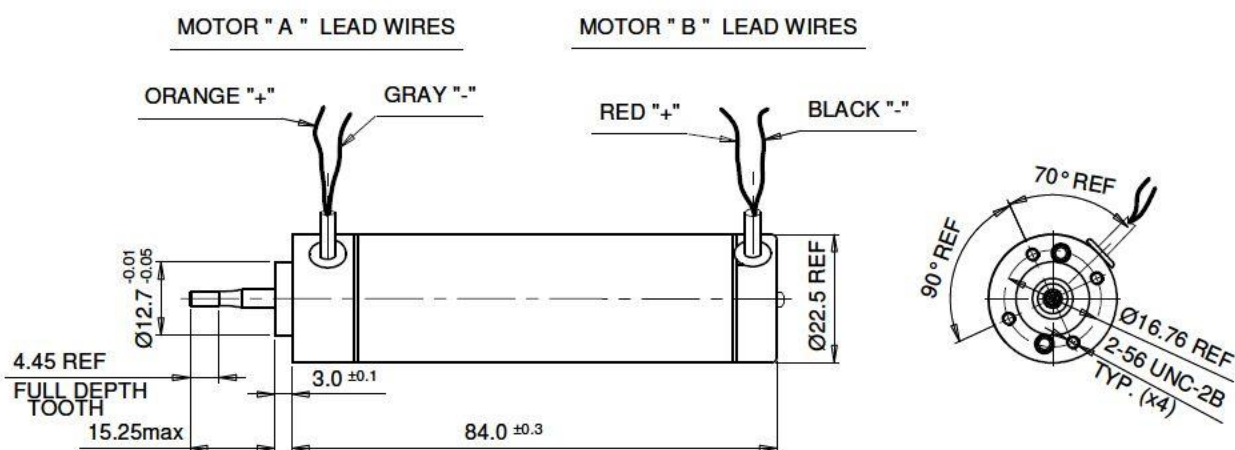
Parameter	Unit	Value	Tolerance
Nominal voltage	VDC	27	-
No load speed	RPM	10,400	±10%
Max. rated torque	mNm	18	-
Stall current	A	0.85	-
Terminal resistance	Ohm	33	±10%
Brush voltage drop (at 0.5 A current, after exposure to storage conditions per MIL-M-8609)	VDC	2	max
No load starting current	A	0.1	max
Winding temperature rating	°C	180	max
Bearing lubrication	-	Braycote 601	-
Lead wires length (#24 AWG Teflon coated cable per MIL-22759)	mm	200	±6

## MDC-11L

Shaft-pinion data		
No. of teeth	-	9
Diametrical pitch	-	120
Pressure angle	deg	20
Standard pitch dia (ref)	mm	1.905
Addendum (ref)	mm	0.211
Whole depth	mm	0.516
Circular tooth thickness on pitch dia (ref)	mm	0.333
Testing radius uncorrected master gear	mm	1.40
Total composite error	mm	0.036
Tooth to tooth composite error	mm	0.025
Measurement dia over two pins	mm	3.23 – 0.025
Pins diameter	mm	0.366
Surface roughness of active profile	-	32
AGMA Quality no.	-	0108

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### Drawing



*All dimensions are in mm*

### For Additional Information

To learn more about the MDC-44 or other MTC products, contact MTC on **+972 4 998 7772** or email **marketing@mtcind.com**