

DMR-26-03

Multispeed Pancake Resolver

The high accuracy multispeed (X16) pancake resolver was designed, developed and produced for military as well as special industrial applications. Transformation ratio can vary according to customer specifications.



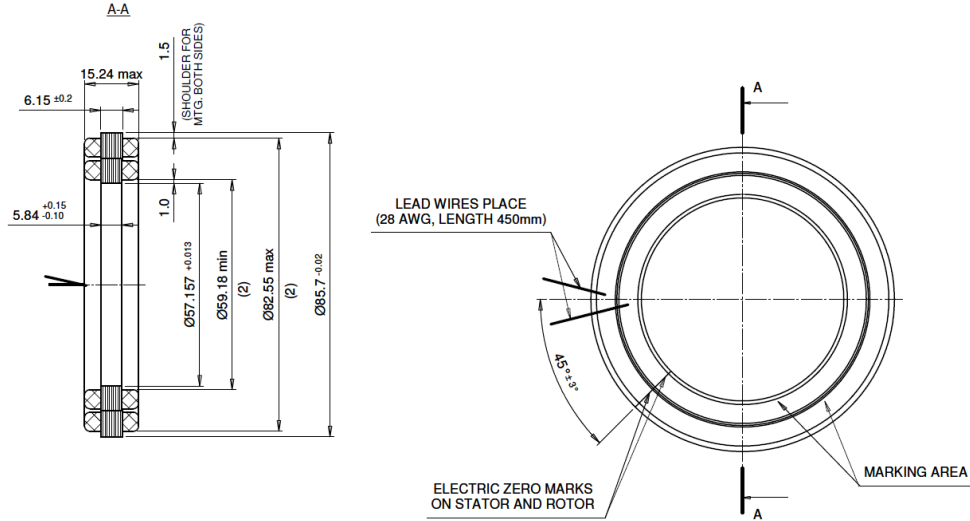
Specifications

Motor Data

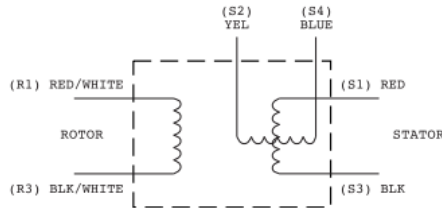
Parameters	Units	Values	Tolerances
Input Voltage	V(rms)	4.4	± 5%
Frequency	kHz	2	± 1.5%
DC resistance:			
Rotor	Ohm	295	± 35%
Stator	Ohm	315	± 35%
Rotor Impedance Z _{ro} - with stator open circuited	Ohm	350 + j820	R± 35%
Stator Impedance Z _{ss} - with rotor short circuited	Ohm	410 + j1210	X ±25%
Transformation ratio at RT and 10MΩ/ 20pF output load	-	0.45	± 10%
Phase shift	deg	0 ÷ 7.5	-
Null Voltage:	mV	20	max
Accuracy	arc sec	± 20	-
Primary current	mA	2.9	Max
Resolver Speed	-	X16	-
Weight	Gr.	167	± 5

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Wiring Diagram



Phase Equations:

$$E(S1S3) = TR * [E(R1R3) * \cos(16 * \theta)]$$

$$E(S2S4) = TR * [E(R1R3) * \sin(16 * \theta)]$$

where: TR - transformation ratio
 θ - measured angle, deg.

Direction of rotation

θ is positive for a CCW rotation of the rotor as viewed from the rotor lead wires exit side.

For Additional Information

To learn more about the MDC-26 DC Brush Motor Control Manifold or other MTC products, contact MTC on +972 4 998 7772 or email marketing@mtcind.com