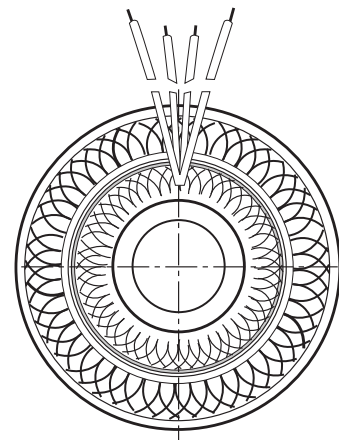
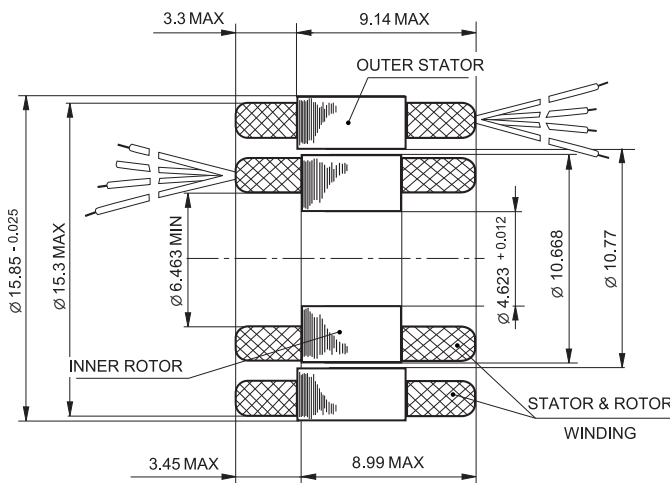
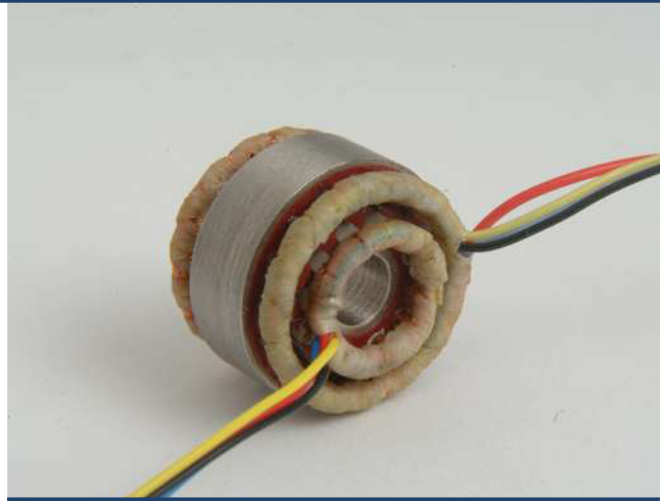
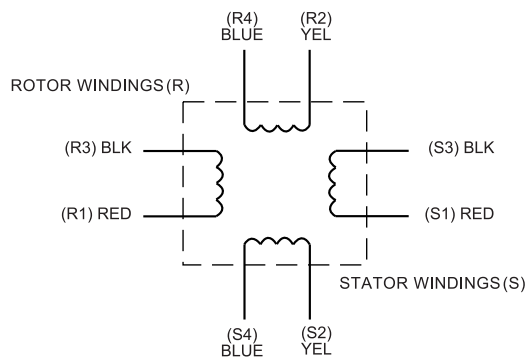


Resolver

The MR-15-12 is a highly reliable small size resolver designed for measuring accurate angular position for both aerospace/military and industrial applications.



Wiring Diagram



Phase Equations:

$$E (S1S3) = TR [E (R1R3) * \cos \theta - E (R2R4) * \sin \theta]$$

$$E (S2S4) = TR [E (R1R3) * \sin \theta + E (R2R4) * \cos \theta]$$

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

Direction of Rotation

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

Specification

Parameter	Unit	Value	Tolerance
DC Resistance :			
Rotor	Ohm	43	± 10%
Stator	Ohm	64	± 10%
Temperature coefficient	% / deg. C	0.4	-
Rated primary voltage	V (rms)	6	nom
Rated frequency	kHz	4.0	nom
Input current (with parallel capacitor $C \leq 0.015$ mF)	mA	5	max
Phase shift (PS)	deg	5	± 5°
Transformation ratio (TR) :			
TR with rotor energized	%	1.0	± 10%
Maximum difference between TR with rotor energized	%	1.0	-
TR with stator energized	%	0.85	± 10%
Maximum difference between TR with stator energized	%	1.0	-
Null voltage :			
Total null	mV	15	-
Fundamental null	mV	10	-
Electrical error (accuracy)	arc minute	45	-