

R11WB1071

SIZE 11 BRUSHLESS RESOLVER WITH SHAFT

MICRONOR

automation components

Products

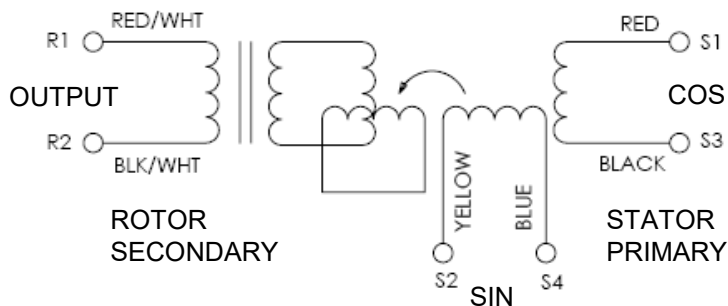
R11WB1071 is a Size 11, Control Transformer-type Brushless Resolver equivalent to Micron 73-202-881, Harowe 11BRW-300-B95A-01, and Moog 11-BHW-32F. It is a single speed resolver, optimized for 400Hz operation, TR=1.75 and ± 7 arcmin accuracy.

Customers have used this resolver as a substitute for discontinued Harowe 11BRW-300-E1. While Excitation Frequency (400Hz) are the same, this resolver has higher TR (1.75 vs 1.00) which may require adjustment on the resolver interface.



Diagram

Lead Color	Function
Red/White	Rotor 1
Black/White	Rotor 2
Red	Stator 1
Yellow	Stator 2
Black	Stator 3
Blue	Stator 4



Phasing Equation:

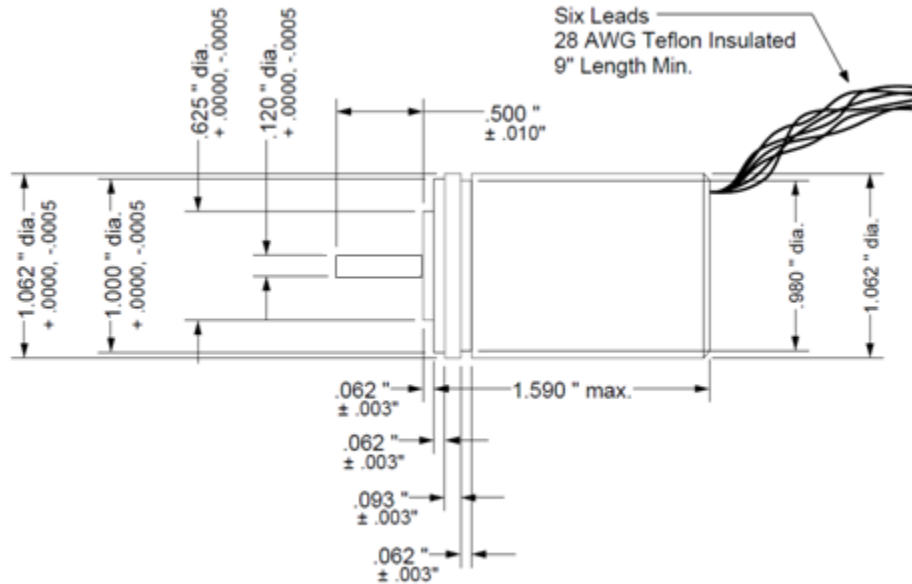
$$E(R1-R2) = K * [E(S1-S3) \cos\theta + E(S2-S4) \sin\theta]$$

Specifications

Specifications Subject To Change Without Notice

Parameters measured at 25 °C

Speed	1
Excitation Frequency	400 Hz $\pm 5\%$
Transformation Ratio (TR)	1.75 $\pm 5\%$
Input Voltage and Frequency	12.0V, 400 Hz
Input Current	17mA max.
Input Power	70mW max.
Output Voltage	21.0V
Impedances (Ohms)	
ZRO	2130 + j3840
ZRS	2666 + j1900
ZSO	460 + j770
ZSS	555 + j370
Phase Shift (Degree Leading)	+12.0°
DC Rotor Resistance (Ohms)	820 Ω
DC Stator Resistance (Ohms)	200 Ω
Total Null Voltage (mV)	20
Accuracy Max Error (at 25°C)	± 7 arcmin (0.12°)
Shaft Loading (Max.)	2 lbs. radial / 1 lbs. axial
Starting Torque	0.08 oz-in
Moment of Inertia	0.51 x 10 ⁻⁴ oz-in-sec ²
Operating Temperature	-40°C to +125°C



For Thomson Micron replacements, order:
R11WB1071

Related Items:

- R11BHW50FF533 replaces Micron 73-206-879 / Clifton 11-BHW-50F/F533B
- R11XA107 replaces Harowe 11BRCX-300-A95
- R11XC107 replaces Micron 73-204-860 / Harowe 11BRCX-300-C95/6
- R11XG1071 replaces Micron 73-205-144 / Harowe 11BRCX-300-G95/6
- R11XJ107 replaces Micron 73-204-671 / Harowe 11BRCX-300-J95C
- R11WB1071 replaces Micron 73-202-881 / Harowe 11BRW-300-B95
- R11WF103 replaces Micron 73-202-730 / Harowe 11BRW-300-F95A

For additional technical information, contact Micronor and request:

- MICRON Replacement Position Transducers Data Sheet

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