SERIES RF25

NorthStar[™] brand

Heavy Duty Resolver

Key Features

- Flange Mount Rugged Housing Immune to Oil, Salt, Water & Dust
- Spaced Bearings for up to 10x the Life of **Traditional Duplex Bearings**
- Withstands 200g Shock and 40g Vibration
- **Shaft Seal Standard**





SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

MECHANICAL

Bearing Life: 2x108 Revs at rated shaft load

Shaft Size: 3/8"

Shaft Material: 416 SS

Max Radial Shaft Load: 60 lbs. Max Axial Shaft Load: 40 lbs.

Max Continuous Speed: 20,000 RPM Moment of Inertia: .004 oz-in-sec2

Mounting Type: Square Flange Connector: 10pin MS3112E-18-11P

Weight: 1.6 lbs.

ELECTRICAL

Sensing Method: Resolver, Sine/Cosine;

1X speed

Excitation: 26VAC rms, 2.4kHz Input Current: 22ma max. Null Voltage: 25mv max.

Electrical Error: 10 Arc min. spread Transformation Ratio: 0.454 ±5% Phase Shift: 6 degrees nominal Dielectric Strength: 500VAC to case,

250VAC phase-to-phase

Mating Connector: 10 pin MS3116F-18-11S

ELECTRICAL CONNECTIONS

Signal	Pin	Color	
R1 – Rotor Hi	Α	Red w/White	
R2 – Rotor Hi	В	Yellow w/White	
S1 – Cos Hi	D	Red	
S3 – Cos Lo	F	Black	
S2 – Sin Lo	G	Blue	
S4 – Sin Hi	Е	Yellow	

ENVIRONMENTAL

Operating Temperature: -55 to +125°C Storage Temperature: -55 to +125°C

Shock: 200G at 11 milliseconds time duration. Half sine waveform per Mil-S-81963

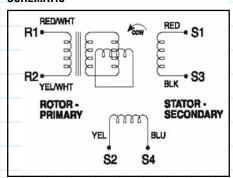
Vibration: 40G at .06 inch double amplitude at

10-2000 Hz per Mil-S-81963

Humidity: to 98% without condensation

Enclosure: Immune to oil, salt, water and dust

SCHEMATIC





Customer Service:

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Harowe[™]

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SERIES RF25

Ordering Information

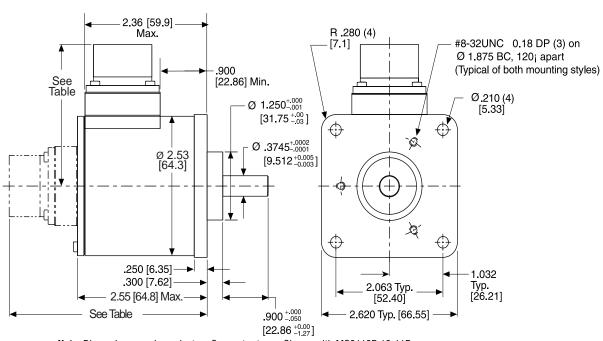
To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: Resolver Speed	Code 3: Shaft	Code 4: Termination	Code 5: Connector Exit		
RF25	11					
Ordering Information						
RF25 Heavy Duty Flange Mount Resolver	1	R Round F Round with Flat W Round with Two Flats @ 90 Degrees	 B MS3202E-16S-1P C MS3202E-18-1P F Flying Leads G MS3112E-10-6P L MS3112-18-11P P PT02E-14-19P 	R Rear Exit S Side Exit		

DIMENSIONS inches [mm]

CONNECTOR LOCATION

Connector Code	Connector Type	Side Location	Rear Location
В	7 Pin Screw Type	2.51 inch	3.74 inch
С	10 Pin Screw Type	2.90 inch	4.12 inch
G	6 PinTwist & Lock	2.32 inch	3.54 inch
L	11 PinTwist & Lock	2.29 inch	3.55 inch
P	19 PinTwist & Lock	2.40 inch	3.62 inch



Note: Dimensions are dependent on Connector type - Shown with MS3112E-18-11P

SHAFT WITH FLAT

-.800 - .3747 .3744

SHAFT WITH 2 FLATS

