SERIES R45

Dynapar[™] brand

Bearingless Ring Kit

Key Features

- 56C-face Ring Kit Motor Mounting
- Dependable Gear Tooth & Pickup Design
- Field-Replaceable Readhead for Easy Service
- Thin 5/8" Profile Saves Valuable Space



SPECIFICATIONS ELECTRICAL CONNECTIONS ENVIRONMENTAL STANDARD OPERATING CHARACTERISTICS Operating Temperature: -40 to +85 °C Code: Incremental Storage Temperature: -40 to +90 °C Resolution: 60 PPR (pulses/revolution), **Function** Wire Terminal Shock: 20 G's for 11 milliseconds duration (If Used) optional 120 PPR with X2 output Color Vibration: 5 to 2000 Hz at 2.5 G's Format: Single channel unidirectional (A), or Signal X2 ORG 1 **Humidity:** to 98% without condensation two channel quadrature (AB) outputs BRN 2 Quadrature Phasing: 90° ± 45° electrical Signal B Symmetry: 180° ± 36° electrical Signal A YEL 3 **ELECTRICAL** +V in RED 4 Input Power: (not including output loads) BLK Gear Reducer Common 5 Single ended 4.5 min. to 16.5 VDC max. at 50 Signal A WHT 6 mA max.: Motor Open collector and differential line driver: 4.5 Signal B GRN 7 min. to 26 VDC max. at 75 mA max. Signal X2 BLU 8 Outputs: Single ended with 2 k Ω pullup: 16.5 VDC max., 20 mA sink at 0.5 V max.; Open Collector: 30 VDC max., 40 mA sink max.; Flange Spacei MECHANICAL 7272 Differential Line Driver: 40 mA sink or Motor frame sizes: 56C, 143TC, 145TC, 182C DC Moto Frequency Response: 10 kHz min. and 184C Electrical Protection: Overvoltage and reverse Motor shaft/hub sizes: 5/8", 7/8" nominal voltage to 30 VDC; output short circuit Housing: Cast Aluminum, Anodized finish protected to Common or other outputs, to +V Gear: 1010 Steel (differential line driver only) Moment of Inertia: 0.0035 in-lb-sec2 Noise Immunity: Tested to EN50082-2 (Heavy Shaft Speed: 5,000 RPM max. Industrial) for Electro Static Discharge, Radio Readhead to gear gap: 0.020" nominal, 0.030 Large Frequency Interference, Electrical Fast Transients, Conducted and Magnetic Interfer-Allowable Endplay: ±0.060 ence Terminations: Wire leads: 7" long min., 18 AWG; Screw terminals: accept 22 to 14 AWG solid or stranded wires



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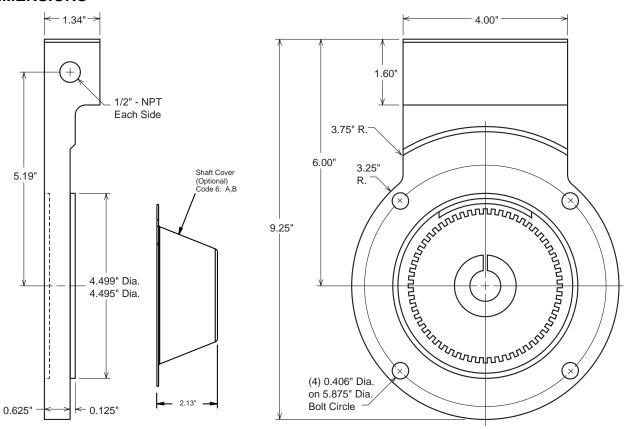
Ordering Information

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

| C | Code 1: Model | Code 2: PPR | Code 3: Gear, Bore | Code 4: Output | Code 5: Electrical | Code 6: Termination |
|--|--|-------------|---|---|--|--|
| | R45 | | | | | |
| Ordering Information | | | | | | |
| R00 | Motor Mount Ring, for NEMA 4-1/2" C-Face Motors No Ring (gear or readhead only) | 0060 | no gear, readhead only 5/8" bore (56C) 7/8" bore (143TC, 145TC, 182C, 184C) | no readhead, gear only single channel (A), unidirectional dual channel (AB), bidirectional dual channel (AB), bidirectional with unidirectional (X2) speed output | 0 no readhead, gear only Available when Code 4 is 1, 2 or 3: 1 5-15V in, 5-15V single ended out 2 5-26V in, 5-26V differential line driver out 3 5-26V in, 5-26V open collector out | O no readhead, gear only Available when Code 4 is 1, 2 or 3: wire leads Screw terminals A Same as 1, with protective cover Same as 2, wtih protective cover |
| 112122-0001 R45 protective shaft cover accessory | | | | | | |

Example Model number: 5/8" bore, gear only = R00 0060 1000

DIMENSIONS





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