

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

STANDARD OPERATING CHARACTERISTICS

Code: Incremental

Resolution: 60 PPR (pulses/revolution), optional 120 PPR with X2 output

Format: Single channel unidirectional (A), or two channel quadrature (AB) outputs

Quadrature Phasing: $90^\circ \pm 45^\circ$ electrical

Symmetry: $180^\circ \pm 36^\circ$ electrical

ELECTRICAL

Input Power: (not including output loads)
Single ended 4.5 min. to 16.5 VDC max. at 50 mA max.;

Open collector and differential line driver: 4.5 min. to 26 VDC max. at 75 mA max.

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.;

7272 Differential Line Driver: 40 mA sink or source

Frequency Response: 10 kHz min.

Electrical Protection: Overvoltage and reverse voltage to 30 VDC; output short circuit protected to Common or other outputs, to +V (differential line driver only)

Noise Immunity: Tested to EN50082-2 (Heavy Industrial) for Electro Static Discharge, Radio Frequency Interference, Electrical Fast Transients, Conducted and Magnetic Interference

Terminations:

Wire leads: 7" long min., 18 AWG;

Screw terminals: accept 22 to 14 AWG solid or stranded wires

ELECTRICAL CONNECTIONS

Function (If Used)	Wire Color	Terminal
Signal X2	ORG	1
Signal B	BRN	2
Signal A	YEL	3
+V in	RED	4
Common	BLK	5
Signal \bar{A}	WHT	6
Signal \bar{B}	GRN	7
Signal $\bar{X2}$	BLU	8

MECHANICAL

Motor frame sizes: 56C, 143TC, 145TC, 182C and 184C

Motor shaft/hub sizes: 5/8", 7/8" nominal

Housing: Cast Aluminum, chromate finish

Gear: 1010 Steel

Moment of Inertia: 0.0035 in-lb-sec²

Shaft Speed: 5,000 RPM max.

Readhead to gear gap: 0.020" nominal, 0.030 max.

Allowable Endplay: ± 0.060

ENVIRONMENTAL

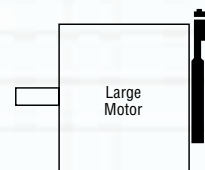
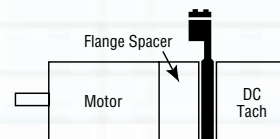
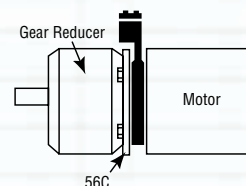
Operating Temperature: -40 to +85 °C

Storage Temperature: -40 to +90 °C

Shock: 20 G's for 11 milliseconds duration

Vibration: 5 to 2000 Hz at 2.5 G's

Humidity: to 98% without condensation



Ordering Information

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

Code 1: Model	Code 2: PPR	Code 3: Gear, Bore	Code 4: Output	Code 5: Electrical	Code 6: Termination
R45	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ordering Information					
R45 Motor Mount Ring, for NEMA 4-1/2" C-Face Motors	0060	0 no gear, readhead only 1 5/8" bore (56C) 2 7/8" bore (143TC, 145TC, 182C, 184C)	0 no readhead, gear only 1 single channel (A), unidirectional 2 dual channel (AB), bidirectional 3 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	0 no readhead, gear only Available when Code 4 is 1, 2 or 3: 1 wire leads 2 screw terminals A Same as 1, with protective cover B Same as 2, with protective cover
112122-0001 R45 protective shaft cover accessory					

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

DIMENSIONS

