## **SERIES R45**

# **Dynapar**<sup>™</sup> 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° ± 45° electrical

Symmetry: 180° ± 36° 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.

Single ended with 2 k $\Omega$  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 Interfer-

#### 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 A	WHT	6
Signal B	GRN	7
Signal 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

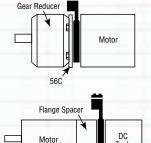
Moment of Inertia: 0.0035 in-lb-sec2 Shaft Speed: 5,000 RPM max.

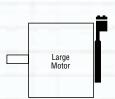
Readhead to gear gap: 0.020" nominal, 0.030

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







## **SERIES R45**

### **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							
Ordering Information								
	Motor Mount Ring, for NEMA 4-1/2" C-Face Motors No Ring (gear or readhead only)	0060	0 no gear, readhead only 1 5/8" bore (56C) 2 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	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**

