# **SERIES 60P**

# **Dynapar**<sup>™</sup> brand

### Heavy Duty Rotopulser<sup>©</sup>

#### **Key Features**

- Classic Mill-Duty Foot or Face Mount Design
- MS Connector or 1/2" Conduit Entry
- **Unbreakable Code Disc**
- **NEMA 56 C-Face Housing with Feet**
- **Available with or without Purse Plugs**



#### **SPECIFICATIONS**

#### STANDARD OPERATING CHARACTERISTICS

Code: Incremental, Optical

Resolution: 1 to 2500 PPR (pulses/revolution) See

ordering information

Format: Two channel quadrature (AB) with optional

Phase Sense: A leads B for CW rotation of the

primary shaft

Minimum Free Path: Between any A and B transition (Distance D) will not be less than 12.5% of one full electrical cycle. This includes effects of jitter, phase and

symmetry shifts.

#### **ELECTRICAL**

Power Requirements: 5 to 15 VDC max. 115 mA max. plus load requirements Output: TC1428 Differential Line Driver,

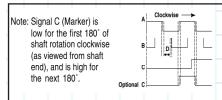
40 mA Sink/ Source

Frequency Response: 50 kHz

Mating Connector: 10- pin: style MS3106A- 18-

1S, Dynapar Part No. MCN- N6

#### **ELECTRICAL OUTPUT**



#### **ELECTRICAL CONNECTIONS**

#### Single-Ended Output

Cable #14002090010* 6 PIN Single-Ended		Cable #14004190010* 10 PIN Differential		Terminal Strip Connector	
Pin	Color	Pin	Color	No.	
В	RED	В	RED	1	
·	-	G	BLK	12	
D	BLU	D	BLU	3	
-	-	Н	BLK	11	
Α	GRN	Α	GRN	4	
-			BLK	10	
E	WHT	E	WHT	5	
С	BLK	С	BLK	2	
F	SHIELD	F	SHIELD	6	
-		J	+	7, 8, 9	
	#1400 Sing Pin B - D - A - E C	#14002099010* 6 PIN Single-Ended Pin Color B RED D BLU A GRN E WHT C BLK F SHIELD	Cable #14002090010* 6 PIN Single-Ended Diff    B RED B G G D BLU D H A GRN A I E WHT E C BLK C F SHIELD F - J J	Cable	

\*This is a mating connector/cable assembly described in the Encoder Accessories section of this catalog. Color-coding information is provided here for reference.

Dual Isolated Output

	Co	ode 4 is K	Code 4 is M*		
Function (If Used)	6 PIN Primary	10 PIN Primary	7 PIN Secondary	10 PIN Primary	10 PIN Secondary
Signal A	В	В	Α	В	В
Signal A	-	G	С	G	G
Signal B	D	D	В	D	D
Signal B	-	Н	Е	Н	Н
Signal C	Α	Α	(No Marker)	1	(No Marker)
Signal C	-	_	(No Marker)	-	(No Marker)
Primary Power	Е	Е	D	Е	E
Primary Common	С	С	F	С	С
Secondary Power		-		-	J
Secondary Common	-	-	-	-	1
Shield	F	F	G	F	F
Not Used	-	J	-	A,I,J	Α

To provide quick backup, jumper cable assembly pins E & J and C & I; then, if the primary output fails, move the connection from the primary to secondary connector.

#### MECHANICAL

Shaft Size: 5/8" nominal Slew Speed: 3600 RPM Shaft Diameter: 5/8"

Shaft Loading: Radial: 45 lbs. overhung;

Axial: 15 lbs.

Inertia: 285 gm- cm<sup>2</sup> max. Typical Starting Torque: 15 oz- in Bearings: Motor Duty Bearings Housing and Cover: Aluminum Shaft Material: Stainless Steel Disc Material: Mylar

Weight: 10 lbs.

#### **ENVIRONMENTAL**

Operating Temperature: 0 to 54 °C **Humidity:** Up to 98% (non-condensing) Enclosure Rating: NEMA 12 / IP54; NEMA 4 / IP66 with optional shaft seals



## SERIES 60P

#### **Ordering Information**

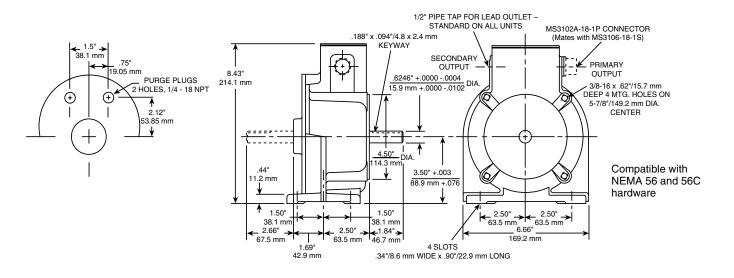
To order, complete the model number with code numbers from the table below:

Code 1: Model	Code2: Housing	Code 3: Shaft	Code 4: Output	Code 5: Voltage	Code 6: Pulses/Rev	Code 7: Wiring	Code8: Misc
6 🗌	P			F			
Bidirectional, Heavy Duty     Bidirectional with Marker, Heavy Duty	P Mill Duty	M 5/8" Dia, Single Shaft with Keyway N 5/8" Dia, Double Shaft with Keyway	D Differential E Single Ended, Dual Isolated, 6 and 7 pin connectors L Differential, Dual Isolated, 10 and 7 Pin Connectors  Available when Code 1 is 62: M Differential, Dual Isolated, 10 and 10 Pin Connectors	F 5 to 15 VDC	0001         0096         0360         0750           0002         0100         0375         0800           0004         0120         0382         0805           0005         0125         0384         0833           0006         0127         0390         0900           0010         0128         0400         1000           0012         0150         0402         1024           0015         0180         0430         1200           0018         0192         0450         1250           0020         0200         0500         1270           0025         0203         0508         1500           0040         0240         0512         1800           0045         0250         0530         2000           0050         0256         0550         2160           0060         0300         0600         2250           0064         0306         0625         2400           0090         0315         0720         2500	A MS Connector  Available when Code 4 is D or E:  T Terminal Strip	O No Purge Plugs, No Shaft Seals  A Purge Plugs, No Shaft Seals  B No Purge Plugs, Shaft Seals  C Purge Plugs and Shaft Seals

#### **DIMENSIONS** inches [mm]

#### Purge Plug Location

#### Approximate Dimensions





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