DR580

Direct Replacement Encoder For Dynapar H23 on Magnetek Vector/Inverter Motors



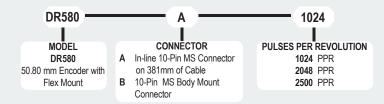


Features:

- Rugged 50.8mm (2") industrial encoder with 57.15mm flex mount and 5/8" bore
- Able to withstand temperatures up to 100° C
- · Quadrature with index
- Line Driver output
- 5 to 28 VDC
- 10-pin inline or body mount MS connectors
- Frequency up to 200 kHZ
- Sealing of IP64

The Direct Replacement Encoder DR580 is an exact substitute for the Dynapar H23 used on Magnetek Vector/Inverter Duty motors. Available with PPR's of 1024 or 2048, the DR580 is a heavy duty, rugged industrial encoder capable of withstanding higher temperatures and shock than the Dynapar H23. With either a body mount, or in-line connector option, the DR580 will provide a simple direct fit installation with superior performance for your motor mount application.

ORDER GUIDE:-



ACCU>CODER

The Accu-Coder[™] Advantage

- Get this encoder FAST!
- · Huge savings in price!
- The accuracy, reliability, and quality that only come from an Accu-Coder[™]
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Call +44(0)1978 262100 and our Technical Sales Department will cross-reference your encoder to the correct BEPC model.

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DR580 Specifications

Electrical

Input Voltage. .4.75 to 28 VCC max for temperatures up to 70° C 100 mA max with no output load Input Current... Input Ripple100 mV peak-to-peak at 0 to 100 kHz Output FormatIncremental- Two square waves in quadrature with channel A leading B for clockwise shaft rotation, as viewed from the encoder mounting face. See Waveform Diagrams below. Line Driver- 20 mA max per channel Output Types. (Meets RS 422 at 5 VCC supply) . Occurs once per revolution.

See Waveform Diagrams below. Freq Response........Up to 200 Khz.

Freq Response.......Up to 200 Khz.

Noise Immunity.......Tested to BS EN61000-4-2; IEC801-

3; BS EN61000-4-4; DDENV 50141; DDENV 50204; BS EN55022 (with European compliance option); BS

Rise Time.....Less than 1 microsecond

Accuracy.....Instrument and Quadrature Error:

0.017° mechanical (1.0 arc minutes)
from one cycle to any other cycle. (Total
Optical Encoder Error = Instrument +
Quadrature + Interpolation)

Mechanical

Max Shaft Speed......8000 RPM. Higher shaft speeds may be achievable, contact Customer Service.

Shaft Size0.625" User Shaft Tolerances

Radial Runout......0.17 max Axial Endplay.....+/- 0.7 Max

Starting Torque7.0615 x 10⁻³ Nm typical with IP64 seal

Max Acceleration 1 x 10⁵ rad/sec²

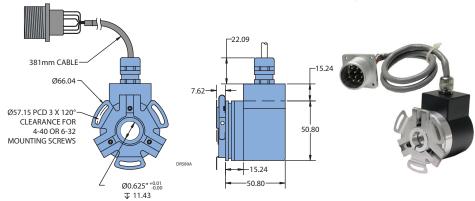
Connector Type10 Pin MS on 381mm of cable, or body

mount

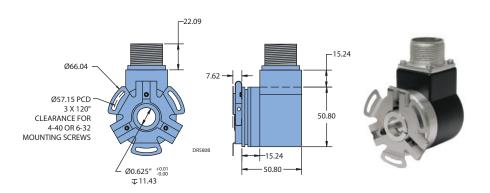
Housing.....Black non-corrosive finish
Bearings....Precision ABEC ball bearings
Mounting....57.15mm Flex Mount
Weight......311g typical

Environmental

DR580 Dimensions



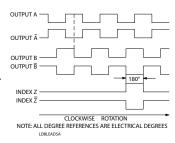
All dimensions are in mm with a tolerance of ±0.127mm or ±0.254 unless otherwise specified



Waveform Diagram

Line Driver

The Line Driver output waveform is shown in the figure to the right. Output B leads Output A for clockwise rotation, as viewed from the encoder mounting face.



Wiring Table •

Pin	Function	Cable Color
Α	Α	Violet
В	В	Brown
С	Z	Orange
D	+VDC	Red
E	Shield	Black Tube
F	COM	Black
G	Case	Green
Н	Α'	Blue
1	B'	White
J	Z'	Yellow