The Accu-Coder™ Direct Replacement Encoder DR580 is an exact substitute for the Dynapar H23 used on Magnetek Vector/Inverter Duty motors. Available with CPR'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.

Features:
- Rugged 2” industrial encoder with 2.25” 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 in-line or body mount MS connectors
- Frequency up to 200 kHZ
- Sealing of IP64

Typical Price: for Comparable Encoder: $525 - $650

**DR580 Price: $490**

Additional discounts available for volume orders.

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**The Accu-Coder™ Advantage**

- Get this encoder FAST — you’ll get your encoders in days, not weeks.
- Huge savings in price comparison — the DR580 is your economical solution
- The accuracy, reliability, and quality that only come from an Accu-Coder™
- Industry Best 3-year warranty!
DR580
Direct Replacement Encoder for Dynapar H23 on Magnetek Vector/Invertor Motors

Model DR580 Specifications

Electrical
Input Voltage........... 4.75 to 28 VDC max for temperatures up to 70°C; 4.75 to 24 VDC for temperatures between 70°C to 100°C
Input Current............. 100 mA max with no output load
Input Ripple............. 100 mV peak-to-peak at 0 to 100 kHz
Output Format............. Incremental- Two square waves in quadrature with channel B leading A for clockwise shaft rotation, as viewed from the encoder mounting face. See Waveform Diagrams below.
Output Type............. Line Driver- 20 mA max per channel (Meets RS 422 at 5 VDC supply)
Index .................... Occurs once per revolution. See Waveform Diagram below.
Freq Response............. 200 kHz
Noise Immunity .......... Tested to BS EN61000-4-2; IEC801-3; BS EN61000-4-4; DDENV 50141; DDENV 50204; BS EN50081-2
Symmetry ................. 180° (±18°) electrical at 100 kHz output
Quad Phasing .......... 90° (±22.5°) electrical at 100 kHz output
Min Edge Separation ....... 67.5° electrical at 100 kHz output
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.
Bore Size ................. 0.625"
Bore Tolerance .......... +.0006" / -.0000"
User Shaft Tolerances
Radial Runout .............. 0.0067" max
Axial Endplay .......... ±0.003" max
Starting Torque .......... 1.0 oz-in. typical with IP64 seal
Moment of Inertia ........ 5.2 x 10-3 oz-in-sec2
Max Acceleration .......... 1 x 105 rad/sec2
Electrical Conn .......... 10-pin MS on 15" of cable, or body mount
Housing ................. All metal construction with black protective coating
Bearings ................. Precision ABEC ball bearings
Mounting ................. 2.25" Flex mount
Weight .................. 0.625 oz typical

Environmental
Operating Temp ........... 0° to 100°C
Storage Temp .............. -25° to +85°C
Humidity ................. 98% RH non-condensing
Vibration ................. 20 g @ 58 to 500 Hz
Shock ..................... 75 g @ 11 ms duration
Sealing .................. IP64

DR580 Dimensions

DR580 Waveform Diagrams

DR580 Wiring Tables

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Cable Color</th>
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<tbody>
<tr>
<td>A</td>
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</tr>
<tr>
<td>C</td>
<td>Z</td>
<td>Orange</td>
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<td>D</td>
<td>+VDC</td>
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