ECN 1313

- Rotary Encoders with Integral Bearings for Integration in Motors
- Mounted stator coupling
- Installation diameter 65 mm
- Taper shaft

Specifications: ECN 1313

Size	65 mm
Bearing	With integral bearing
Measuring Methods	Absolute (Singleturn)
Electrical connection	Via PCB connector
Version	12-pin
Mounting	Mounted stator coupling
Data interface	EnDat 2.2
Positions per revolution	8192 (13 bit)
Electrically permissible speed at accuracy	5000 min^{-1}/± 1 LSB 12000 min^{-1}/± 100 LSB
Processing time t_{cal}	⩽ 0,25 µs µs
Incremental signals	1 V_{SS}
Line counts	512
Cutoff frequency (-3dB) Scanning frequency Edge separation a	⩾ 100 kHz - -
System accuracy	± 60"
Power supply	5 V ± 5%
Max. current consumption (w/o load)	⩽ 160 mA
Shaft	Taper shaft; taper 1:10
Shaft diameter	9.25 mm
Mech. permissible speed n	⩽ 15000 min^{-1}
Starting torque at 20 °C	⩽ 0.01 Nm
Moment of inertia of rotor	2.6 x 10^{-6} kgm²
Permissible axial motion of measured shaft	± 0.5 mm
Vibration (55 to 2000 Hz)	⩽ 300 m/s² (EN 60068-2-6)

Shock (6 ms)	⩽ 1000 m/s² (EN 60068-2-27)
Max. operating temperature	115 °C
Min. operating temperature	-40
Protection (IEC 60 529)	IP 40 when mounted
Weight (approx.)	Approx. 0.25 kg (0.55 lb)