Hysteresis-free performance and accuracy in arcseconds for even the most demanding applications.

System Data

	GMI-ANG-180
Type	Axial, frameless, true absolute Giant Magneto Impedance encoder GMITechnology-FLUX GmbH proprietary
Standard Resolution	24 bits
ENOB in entire mounting tolerance range	22 bits
High Accuracy	±5.5", 0.001°, ±26µrad
Standard Accuracy	±7", 0.002°, ±35µrad
Thickness	10.80
Hysteresis	none
Repeatability	1 resolution count
Position update rate and signal latency	Real-time
Power-up Time	max. 0.8 sec

Electrical Data

Supply voltage	OptionAV:min.4.35Vdc.max.36Vdc Option5V:min.4.35Vdc.max.6Vdc Option24V:min.6Vdc.Max.30Vdc

Reverse polarity protection	yes
Current Consumption	max. 150 mA @ 25 Vdc, max. 140 mA @ 24 Vdc

Mechanical Data

Stator Base Material	Stainless steel CTE ~ 10 ppm/°C
Stator Weight	520.00 g
Rotor Base Material	Stainless steel CTE ~ 10 ppm/°C
Rotor Weight	320.00 g
Vibration	EN 60068-2-6, 20 g, 55 .. 2000 Hz
Shock	EN 60068-2-27, 200 g, 6 ms

Mounting Tolerances

Nominal Axial (air-gap)	0.30 mm
Axial Tolerance	0.25 mm
Radial Tolerances	0.20 mm

Environmental Data

Temperature Range - Standard Operating	-20°C .. +85°C
Temperature Range - Standard Storage	-20°C .. +85°C
Temperature Range - Extended Operating	-40°C .. +105°C
Temperature Range - Extended Storage	-55°C .. +125°C
Ingress Protection	IP67
EMC Immunity	complies with EN IEC 61000-6-2
EMC Emission	complies with EN IEC 61000-6-4

Advantages

- Plug-n-play
- No field calibration required
- Wide mounting tolerances
- High accuracy

Benefits

- Low installation cost
- Low integration effort
- Easy installation

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