



Motor feedback systems rotary HIPERFACE
DSL®
EKS/EKM36

EKM36-OKFOA020A



Model Name > [EKM36-0KF0A020A](#)
Part No. > [1053857](#)



Illustration may differ

At a glance

- Motor feedback system with HIPERFACE DSL® interface
- Compact, robust design with 36 mm diameter
- Up to 20 bit resolution per revolution and 4,096 revolutions measurable with the multiturn system
- Facility for connecting an external temperature sensor
- E²Prom with 8 kbyte of free memory space
- SIL2-certified (only valid for EKS/EKM36-2...)
- Service life histogram

Your benefits

- Saving all analog components on the controller part through exclusively digital data transmission
- Enormous cost saving thanks to the separate encoder cable no longer being necessary, data transmitted synchronously to the controller cycle
- Minimal cabling thanks to integration of the encoder communication into the motor cable
- Optimization of the controller circuit via automatic synchronization with the controller cycle



Performance

Number of the absolute ascertainable revolutions: Multiturn
Available memory area: 8,192 Byte ¹⁾

¹⁾ If applying the electronic type label, in connection with numeric controllers, attention should be paid to Patent EP 425 912 B2; Application of the electronic type label in connection with speed regulation is exempt.

Mechanical data

Flange type/stator coupling:	Spring mounting plate, Ø 36
Moment of inertia of the rotor:	4.5 gcm ²
Operating torque:	0.2 Ncm
Start up torque:	0.3 Ncm
Permissible shaft movement, radial, static:	± 0.1 mm
Permissible shaft movement, radial, dynamic:	± 0.05 mm
Permissible shaft movement, axial, static:	± 0.5 mm
Permissible shaft movement, axial, dynamic:	± 0.1 mm
Maximum operating speed:	9,000 U/min

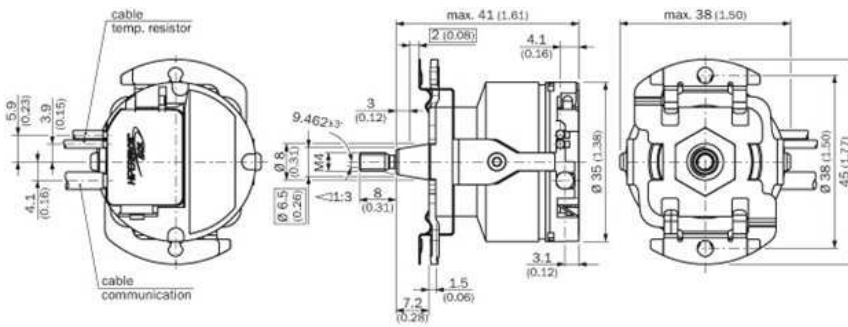
Electrical data

Electrical interface: HIPERFACE DSL

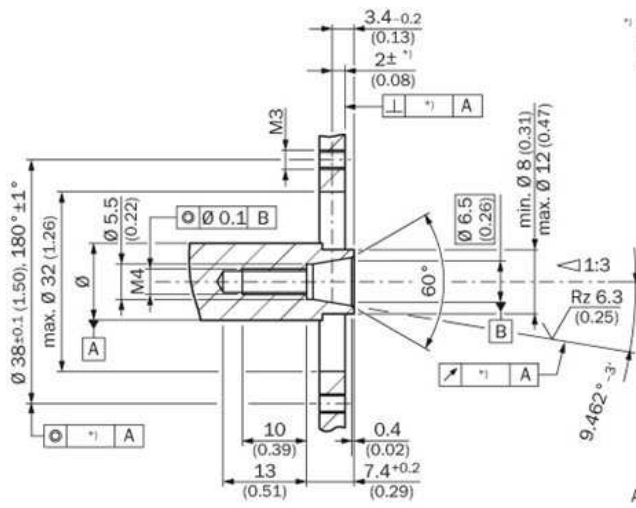
Ambient data

Working temperature range: -20 °C ... 115 °C
Storage temperature range: -40 °C ... 125 °C
Relative humidity/Condensation: Condensation not permitted
Resistance to shocks: 100 g (EN 60068-2-27)
Resistance to vibration: 50 g, 10 Hz ... 2,000 Hz (EN 60068-2-6)
Enclosure rating: IP 40

Dimensional drawing



Proposed fitting



*1 Size of tolerance reduce the allowed movement of the shaft see data sheet.

All dimensions in mm (inch)

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