Motor feedback systems rotary HIPERFACE® SRS/SRM50

SRM50-HAA0-K22







Model Name> SRM50-HAA0-K22Part No.> 1037064



At a glance

- · Motor feedback systems for the top performance range
- 1,024 sine/ cosine periods per revolution
- Absolute position with a resolution of 32,768 increments per revolution and 4,096 revolutions with the multiturn system
- HIPERFACE® interface: Programming of the position value and electronic type label
- · Insert shaft or tapered shaft with various torque supports
- Integrated version, mounted version or stand-alone design
- Certified according to SIL2/PL d (only valid for SRS50S/SRM50S...)
- · Conforms to RoHs

Your benefits

- Motor feedback system with HIPERFACE® interface
- High shock/vibration resistance thanks to built-in metal code disk
- Consistent motor design due to identical size of single and multiturn design
- To use of a motor feedback system certified to SIL2/PL d makes it easier to have your system certified.
- · Very smooth running thanks to maximum ball bearing distance



Performance

ultiturn) 728 lar seconds at interpolation of the sine/cosine signals with e.g. 12 lar seconds (Non-linearity within a sine/cosine period)
lar seconds at interpolation of the sine/cosine signals with e.g. 12
lar seconds (Non-linearity within a sine/cosine period)
an accords (Non includity within a sincressine period)
in, up to which the absolute position can be reliably produced
te, 1,792 Byte (E2PROM 2048)
ular seconds (Error limits for evaluating sine/cosine period) nechanical tension of the stator coupling

Shaft diameter:	7 mm
Flange type/stator coupling:	Rubber support
Dimensions:	See dimensional drawing
Moment of inertia of the rotor:	10 gcm ²
Maximum operating speed:	12,000 /min

Illustration may differ

Electrical interface:	
Electrical data	
GEWICHT01:	0.2 kg
Angular motion perpendicular to the rotational axis, dynamic:	± 0.002 mm/mm
Angular motion perpendicular to the rotational axis, static:	± 0.005 mm/mm
Shaft version:	Plug-in shaft
Connection type:	Connector, 8-pin
Life of ball bearings:	3.6 x 10^9 revolutions
Permissible shaft movement, axial, dynamic:	± 0.2 mm
Permissible shaft movement, axial, static:	± 0.75 mm
Permissible shaft movement, radial, dynamic:	± 0.1 mm
Permissible shaft movement, radial, static:	± 0.5 mm
Start up torque:	0.4 Ncm
Operating torque:	0.2 Ncm
Maximum angular acceleration:	200,000 rad/s ²

HIPERFACE
7 V DC 12 V DC
8 V DC
0 kHz 200 kHz 80 mA ¹⁾
80 mA ¹⁾

1) Without load

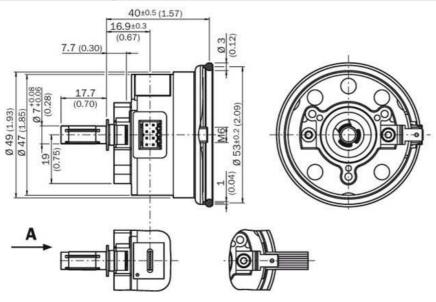
Interfaces

Type of code for the absolute value:	Binary
Code sequence:	Increasing, for clockwise shaft rotation, looking in direction "A" (see dimensional drawing)
Interface signals:	Parameter channel RS 485: digital, Process data channel SIN, REFSIN, COS, REFCOS: analog, differential
Ambient data	
Working temperature range:	-30 °C +115 °C
Storage temperature range:	-40 °C +125 °C, without package
Relative humidity/Condensation:	90 %, Condensation not permitted
Resistance to shocks:	100 g/10 ms/according to EN 60068-2-27
Resistance to vibration:	20 g/10 Hz/2,000 Hz/according to EN 60068-2-6
EMC:	(according to EN 61000-6-2 and EN 61000-6-3) 1)
Enclosure rating:	IP 40 (according to IEC 60529), with mating connector inserted

¹⁾ The EMC according to the standards quoted is achieved when the motor feedback system is mounted in an electrically conductive housing, which is connected to the central earthing point of the motor controller via a cable screen. This is also where the GND (0 V) connection of the power supply voltage is linked to earth. Users must

perform their own tests when other screen designs are used.

Dimensional drawing



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