

SKM36-HZA0-S04

SKS/SKM36

MOTOR FEEDBACK SYSTEMS





Ordering information

Туре	Part no.
SKM36-HZA0-S04	1054076

Other models and accessories → www.sick.com/SKS_SKM36

Illustration may differ



Detailed technical data

Features

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Special device	✓
Specialty	Customized stator coupling with 37 mm hole circle diameter
Standard reference device	SKM36-HFA0-K02, 1034094

Performance

Sine/cosine periods per revolution	128
Number of the absolute ascertainable revolutions	4,096
Total number of steps	16,777,216
Measuring step	$2.5{\rm ''}$ For interpolation of the sine/cosine signals with, e. g., 12 bits
Integral non-linearity	\pm 80 $^{\prime\prime}$, Error limits for evaluating sine/cosine period
Differential non-linearity	± 40 ", Non-linearity within a sine/cosine period
Operating speed	\leq 9,000 min ⁻¹ , up to which the absolute position can be reliably produced
Available memory area	1,792 Byte
System accuracy	± 120 "

Interfaces

Type of code for the absolute value	Binary
Code sequence	Increasing, when turning the shaft For clockwise rotation, looking in direction "A" (see dimensional drawing), For clockwise shaft rotation, looking in direction "A" (see dimensional drawing)
Communication interface	HIPERFACE [®]

Electrical data

Connection type	Male connector, 8-pin, radial
Supply voltage	7 V DC 12 V DC
Recommended supply voltage	8 V DC
Current consumption	60 mA ¹⁾
Output frequency for sine/cosine signals	≤ 65 kHz

¹⁾ Without load.

Mechanical data

Shaft version	Tapered shaft

Flange type / stator coupling	Spring mounting plate, stator coupling
Dimensions	See dimensional drawing
Weight	≤ 0.07 kg
Moment of inertia of the rotor	4.5 gcm ²
Operating speed	9,000 min ⁻¹
Angular acceleration	≤ 500,000 rad/s²
Operating torque	0.2 Ncm
Start up torque	+ 0.3 Ncm
Permissible movement static	± 0.1 mm, - 0.4 mm, + 0.2 mm radial, axial
Permissible movement dynamic	± 0.05 mm radial ± 0.1 mm axial
Life of ball bearings	3.6 x 10 ⁹ revolutions

Ambient data

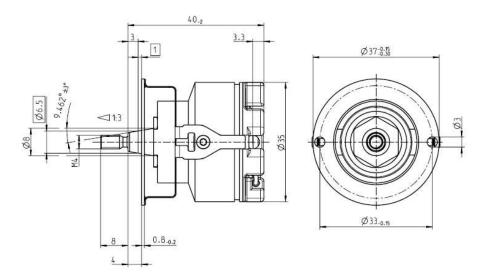
Operating temperature range	-20 °C +110 °C
Storage temperature range	-40 °C +125 °C, without package
Relative humidity/condensation	90 %, Condensation not permitted
Resistance to shocks	100 g, 6 ms, 6 ms (according to EN 60068-2-27)
Frequency range of resistance to vibrations	50 g, 10 Hz 2,000 Hz (EN 60068-2-6)
EMC	According to EN 61000-6-2 and EN 61000-6-3 $^{1)}$
Enclosure rating	IP50, with mating connector inserted and closed cover (IEC 60529)

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. The GND-(0 V) connection of the supply voltage is also grounded here. If other shielding concepts are used, users must perform their own tests.

Classifications

ECLASS 5.0	27270590
ECLASS 5.1.4	27270590
ECLASS 6.0	27270590
ECLASS 6.2	27270590
ECLASS 7.0	27270590
ECLASS 8.0	27270590
ECLASS 8.1	27270590
ECLASS 9.0	27270590
ECLASS 10.0	27273805
ECLASS 11.0	27273901
ECLASS 12.0	27273901
ETIM 5.0	EC001486
ETIM 6.0	EC001486
ETIM 7.0	EC001486
ETIM 8.0	EC001486
UNSPSC 16.0901	41112113

Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

Other models and accessories → www.sick.com/SKS_SKM36

	Brief description	Туре	Part no.
Programming	and configuration tools		
[00.10]	SVip® LAN programming tool for all motor feedback systems	PGT-11-S LAN	1057324

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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