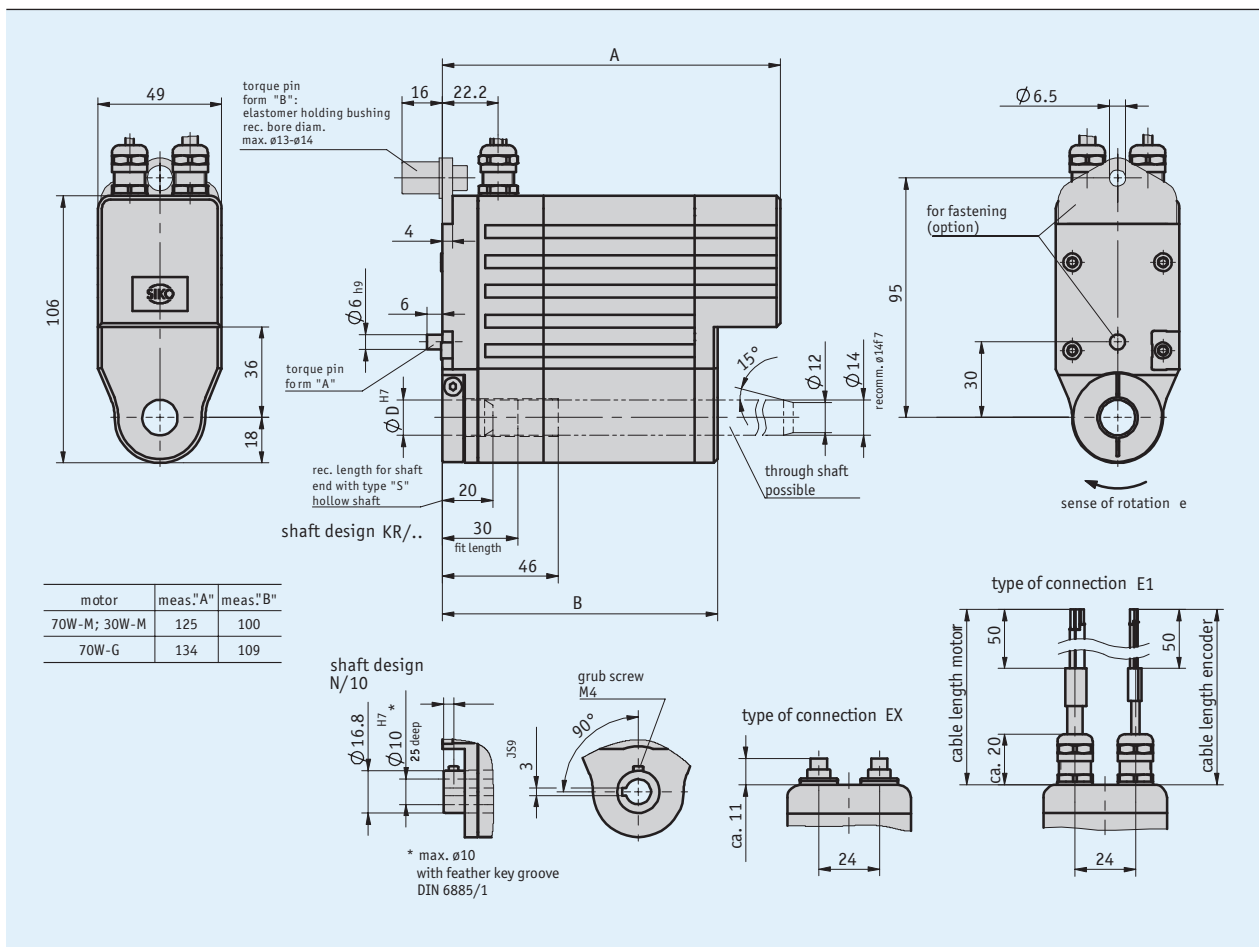


Profile

- Easy mounting
- Through hollow shafts up to max. $\varnothing 14$ mm possible
- Integrated analog absolute position encoder
- Electrical connection via cable or connector



Mechanical data

Feature	Technical data	Additional information
Shaft	black-finished steel	
Housing	aluminum, powder coated zinc die cast	
Nominal torque/rated speed	1.1 Nm at 430 rpm	i = 12.4 (70 W motors)
	2.1 Nm at 225 rpm	i = 24 (70 W motors)
	4.2 Nm at 110 rpm	i = 48 (70 W motors)
Operating mode	S3 intermittent operation: 25 % DC, 10 min.	EN 60034-1
Weight	~1.5 kg	

Electrical data

Motor

Feature	Technical data	Additional information
Operating voltage	0 ... 24 V DC	70 W motors
Power input	70 W	
Rated current	2.9 A $\pm 10\%$ (70W-M)	3.2 A max. load current
	4.1 A $\pm 10\%$ (70W-G)	4.5 A max. load current
Type of connection	2x M9 plug connectors	4-pole, 1x pin; 3-pole, 1x pin

Encoder potentiometer

Feature	Technical data	Additional information
Power rating	2 W at 70 °C	P10 position encoder
Resistance tolerance	$\pm 5\%$	P10 position encoder
Standard terminal resistance	0.2 Ω or 1 Ω	P10 position encoder (always the higher value)
Linearity tolerance	$\pm 0.25\%$	P10 position encoder

Transducer, power output

Feature	Technical data	Additional information
Operating voltage	24 V DC $\pm 20\%$	at $\leq 500\ \Omega$ load

Transducer, voltage output

Feature	Technical data	Additional information
Operating voltage	24 V DC $\pm 20\%$	$I_{load} \leq 10\text{ mA}$

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	0 ... 70 °C	
Storage temperature	-20 ... 80 °C	
Relative humidity		condensation inadmissible
EMC	EN 61800-3, second environment	interference resistance / immission
	EN 61800-3, C3	emitted interference / emission
Protection category	IP63	EN 60529, with mating connectors mounted
Shock resistance	500 m/s ² , 11 ms	EN 60068-2-27
Vibration resistance	$\leq 100\text{ m/s}^2$, 5 ... 150 Hz	EN 60068-2-6

Pin assignment

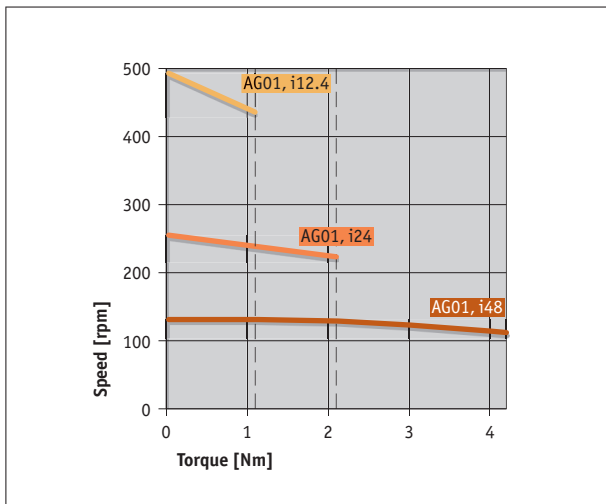
■ Motor

Signal	EX	E1
+	1	M1, white imprinted
+	2	
-	3	M2, white imprinted
-	4	

■ Potentiometer

Signal	MWU	MWI	EX	E1
Po	+24 V DC	I+	1	brown
S	Uout		2	green
Pe	GND	I-	3	white

Performance curve



Order

Ordering table

Feature	Ordering data	Specification	Additional information
Gear ratio	48	i = 48	
	24	i = 24	
	12.4	i = 12.4	
Motor performance	70W-M	24 V DC	
	70W-G	24 V DC	
		others on request	
Shaft design/diameter	KR/14	clamping ring, ø14 mm	
	KR/12	clamping ring, ø12 mm	
	N/10	keyway	only for type S hollow shaft
Hollow shaft type	S	blind hole	
	D	full-length	
Torque pin	A	bolt, ø6 mm	
	B	lug I	incl. elastomer bushing
Type of connection	E1	open cable	
	EX	socket on the device	
Motor cable length	02.0	in m	
		others on request	
Encoder cable length	02.0	in m	
		others on request	
Position encoder	P10	potentiometer 10 kΩ	10 helipot potentiometer
	MWI	transducer 4 ... 20 mA	10 helipot potentiometer
	MWU	transducer 0 ... 10 V	10 helipot potentiometer
		others on request	
Potentiometer transmission	...	1 ... 128 max.	only for P10, MWI and MWU encoders
		others on request	
Sense of rotation	i	clockwise ascending values	only for MWI or MWU encoders
	e	counter-clockwise ascending values	only for MWI or MWU encoders

* Calculation of potentiometer transmission ratio: for instance, if 120 revolutions are required for one adjustment, then the transmission ratio of 12 must be indicated for the 10 helipot potentiometer. In practice: number of necessary revolutions/10 (10 helipot potentiometer) = potentiometer transmission ratio

Order key

AG01 Analog - - - - - - - - - - - -

A B C D E F G H I J K

Scope of delivery: AG01 Analog, Quick Start Guide

Accessories you can find:

- Cable extension KV0350
- Cable extension KV0450
- Motor control module MS02
- Electronic display MA50
- Mating Connector Overview
- Mating connector, motor, 4-pole, socket
- Mating connector, potentiometer, 3-pole, socket
- Mating connector, potentiometer, 3-pole, angle socket

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