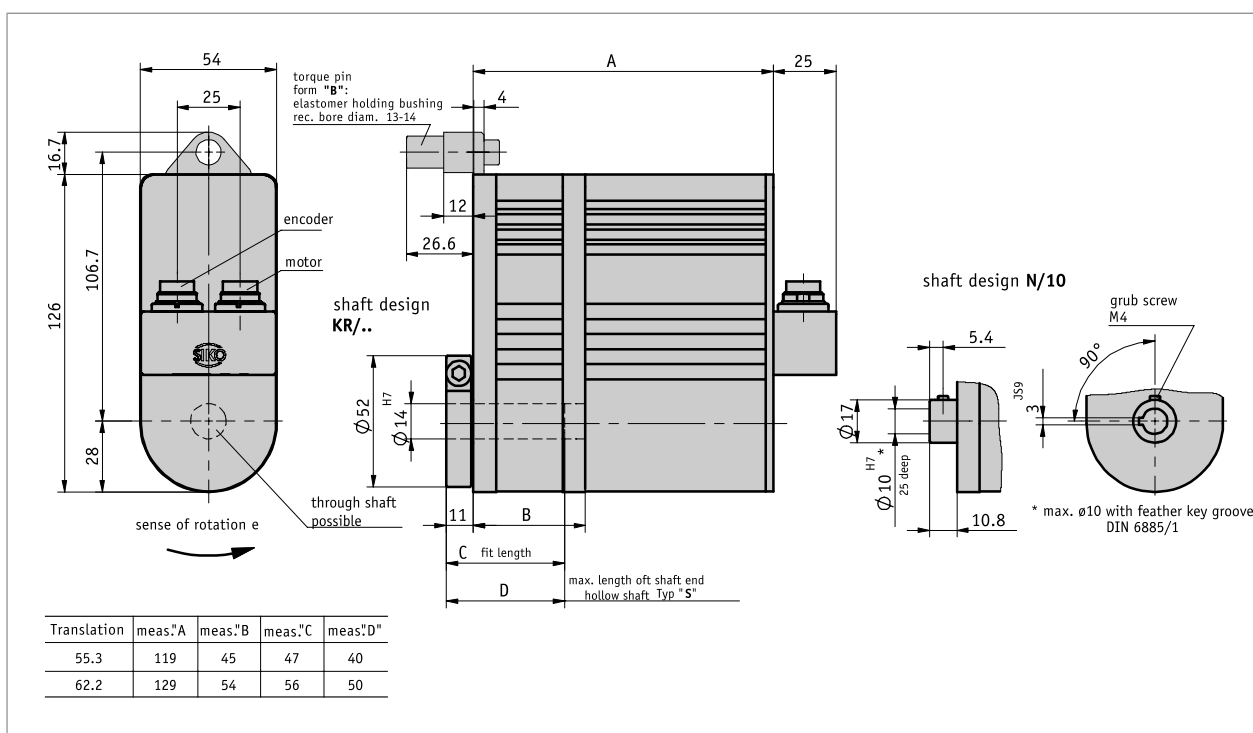


### Profile

- Easy mounting
- Optional through hollow shafts up to max.  $\varnothing$  14 mm
- Integrated analog absolute position encoder



### Mechanical data

Feature	Technical data	Additional information
shaft	black-finished steel	
Housing	aluminum	
Nominal torque/rated speed	8 Nm at 120 min <sup>-1</sup>	i = 55.3 (150 W motor)
	9 Nm at 110 min <sup>-1</sup>	i = 62.2 (150 W motor)
Operating mode	S3 intermittent operation: 25 % DC, 10 min.	EN 60034-1
Weight	~1.8 kg	(analog)

### Electrical data

#### ■ Motor

Feature	Technical data	Additional information
Operating voltage	0 ... 24 V DC	without motor control PWM
Power input	150 W	
Rated current	5.8 A ±4 %, (150 W motor)	max. load current $i = 55.3 / i = 62.2$
Type of connection	2x M16 plug connectors	3-pole, 1x pin; 7-pole, 1x pin

#### ■ Encoder potentiometer

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

#### ■ Transducer, power output

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 % at load 500 Ω	reverse polarity protection

#### ■ Transducer, voltage output

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	$I_{Load} \leq 10$ mA reverse-polarity protected

### 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	IP50 (IP65 optional) with mounted mating connectors	EN 60529
Shock resistance	500 m/s <sup>2</sup> , 11 ms	EN 60068-2-27
Vibration resistance	≤100 m/s <sup>2</sup> , 5 ... 150 Hz	EN 60068-2-6

### pin assignment

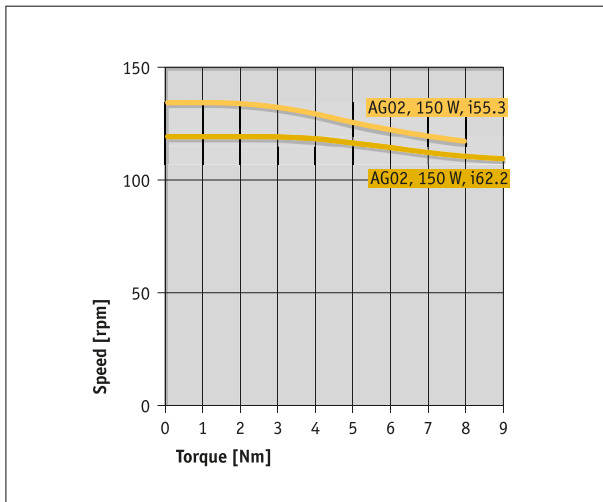
#### ■ Motor

Signal	PIN
"Motor +"	1
nc	2
Motor -	3

#### ■ potentiometer

P01/P10	MWI	MWU	PIN
Pe	I-	GND	1
Po	I+	+24 V DC	2
S	nc	Uout	3
nc	nc	nc	4-7

### Performance curve



### Order

#### Ordering table

Feature	Ordering data	Spezifikation	Additional information
Gear ratio	<b>A</b> 55.3 62.2	i = 55.3 i = 62.2	
shaft design/diameter	<b>B</b> KR/14 N/10	clamping ring ø14 mm keyway, ø10 mm	with i=55.3, other transmissions on request
hollow shaft type	<b>C</b> S D	blind hole full-length	for the max. length of the stub shaft refer to the table of dimensions
Torque pin	<b>D</b> B OD	lug without	incl. elastomer bushing
position encoder	<b>E</b> MWI MWU P01 P10	transducer 4 ... 20 mA transducer 0 ... 10 V potentiometer 1 kΩ potentiometer 10 kΩ others on request	10 helipot potentiometer 10 helipot potentiometer 10 helipot potentiometer 10 helipot potentiometer
potentiometer transmission*	<b>F</b> ...	1 ... 128 max.	
Sense of rotation	<b>G</b> i e	clockwise ascending values counter-clockwise ascending values	nur bei Geber MWI und MWU nur bei Geber MWI und MWU

\* Calculation of potentiometer gear ratio: For example, if 120 revolutions are required for one adjustment, then a gear ratio of 12 should be indicated for the 10-turn potentiometer. To be precise: number of revolutions required/10 (10-turn potentiometer) = potentiometer gear ratio

#### Order key

AG02 analog



**Scope of delivery:**

AG02 analog, Quick Start Guide

**Accessories you can find:**

Cable extension KV02S0

[www.siko-global.com](http://www.siko-global.com)

Cable extension KV07S0

[www.siko-global.com](http://www.siko-global.com)

Motor control module MS02

[www.siko-global.com](http://www.siko-global.com)

Overview, Mating connector

[www.siko-global.com](http://www.siko-global.com)

Mating connector, encoder/digital inputs, 7-pole, socket

Order key 76141

Mating connector, encoder/digital inputs, 7-pole, angle socket

Order key 78088

Mating connector, Motor/voltage supply, 3-pole, angle socket

Order key 81363

Mating connector, Motor/voltage supply, 3-pole, socket

Order key 82182