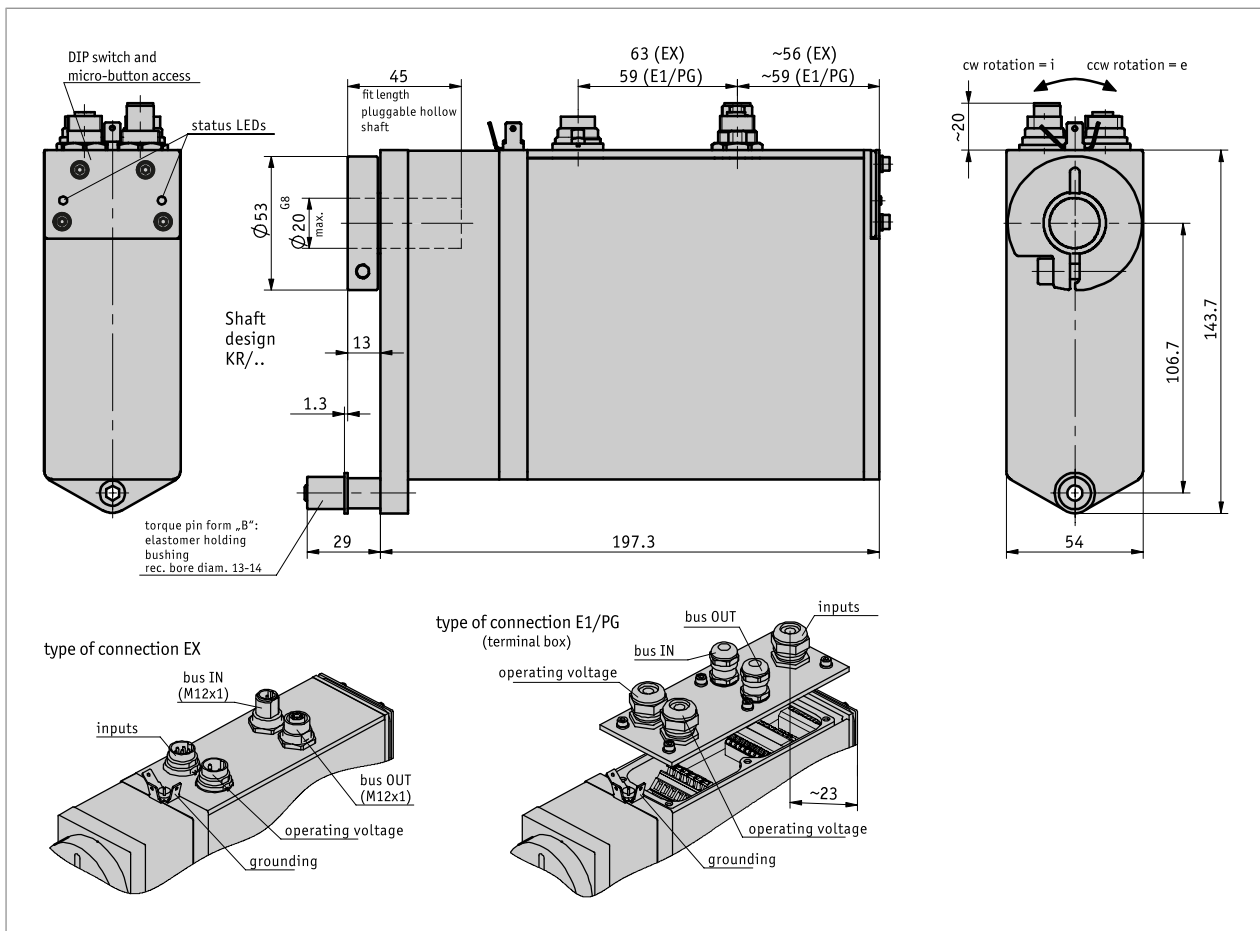


Profile

- Easy mounting
- Stainless steel hollow shaft up to max. $\varnothing 20$ mm
- " " "manual" " traveling without control unit by means of operator keys"
- Brushless 160 W, 24 V DC motor with long service life
- Integrated absolute position encoder on the output shaft
- Electrical connection via spring terminals or connector
- Integrated positioning controller
- Integrated fieldbus interface
- Integrated spring-operated brake (option)



Mechanical data

Feature	Technical data	Additional information
shaft	rustproof stainless steel	
Housing	aluminum	
Nominal torque/rated speed	6 Nm at 150 min ⁻¹ ($\pm 10\%$)	i = 30.6 (max. adm. operating point)
	10 Nm at 90 min ⁻¹ ($\pm 10\%$)	i = 50 (max. adm. operating point)
	14 Nm at 64 min ⁻¹ ($\pm 10\%$)	i = 70.8 (max. adm. operating point)
Operating mode	S3 intermittent operation: 25 % DC, 10 min.	EN 60034-1
Weight	~3.2 kg	

Electrical data

Feature	Technical data	Additional information
Operating voltage	24 V DC $\pm 10\%$	reverse polarity protection
Power input	~ 160 W	
Parameter storage	10^5 cycles	also applies to calibration operations
Rated current	6 A $\pm 5\%$	
No-load current	350 mA $\pm 20\%$	(with transmission)
Type of connection	5x PG9, terminal strip	0.13 ... 2.5 mm ² or 0.25 ... 1.5 mm ² (E1/PG)
	2x M16 plug connectors	3-pole, 1x pin; 7-pole, 1x pin (EX)
	2x M12 plug connectors (B-coded)	5-pole, 1x pin, 1x socket (EX)
	grounding via flat connector 6.3 mm	

System data

Feature	Technical data	Additional information
Resolution	1024 Increment(s)	singleturn / 10 bit
Travel range	254 rotation(s)	8 bit multiturn (rounded)
	4094 rotation(s)	12 bit multiturn (rounded)

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	0 ... 45 °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 / IP54 / IP65	EN 60529, with mating connector fitted
Shock resistance	500 m/s ² , 11 ms	EN 60068-2-27
Vibration resistance	≤ 100 m/s ² , 5 ... 150 Hz	EN 60068-2-6

pin assignment

■ Operating voltage

Signal	EX	E1 (terminal)
+UB	1	X1.1 X1.2
Enable	2	X3.5
GND	3	X1.3 X1.4
Shield		X1.5 X1.6

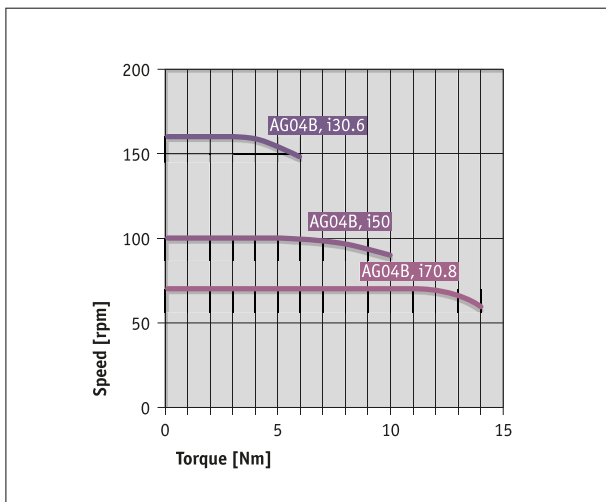
■ fieldbus

Signal	EX	E1 (terminal)
BUS A	2	X2.2, X2.9
BUS B	4	X2.1, X2.10
Do not connect!	1, 3, 5	X2.3, X2.4, X2.5, X2.6, X2.7, X2.8

■ Inputs

Signal	EX	E1 (terminal)
Limit switch 1	1	X3.1
Limit switch 2	2	X3.2
Input 1	3	X3.3
Input 2	4	X3.4
nc	5-7	
Enable		X3.5
EXT_GND		X3.6
GND		X3.7

Performance curve



Order

■ Ordering table

Feature	Ordering data	Spezifikation	Additional information
Gear ratio	A 70.8 50 30.6	i = 70.8 i = 50.0 i = 30.6 others on request	
motor/brake	B 160W/MB 160W/OB	160 W EC motor with brake 160 W EC motor without brake	
Protection category	C IP50 IP54 IP65	IP50 IP54 IP65	
shaft design/diameter	D KR/20 KR/14	clamping ring, ø20 mm clamping ring ø14 mm others on request	
Type of connection	E EX E1/PG	industrial connector terminal box	without mains outlet with mains outlet
number of revolutions	F 254 4094	8 bit (rounded) 12 bits (rounded)	254 revolutions 4094 revolutions

■ Order key

AG04B - - - - - **B** - - - **PB** - **SW**

A
B
C
D
E
F

**Scope of delivery:**

AG04B, Quick Start Guide

**Accessories you can find:**

Cable extension KV03S1	www.siko-global.com
Cable extension KV07S0	www.siko-global.com
Programming software ProTool DL	www.siko-global.com
Overview, Mating connector	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, Profibus IN, 5-pole, angle socket	Order key 82804
Mating connector, Profibus OUT, 5-pole, angular pin	Order key 82805
Mating connector, Profibus IN, 5-pole, socket	Order key 83991
Mating connector, Profibus OUT, 5-pole, pin	Order key 83992
Mating connector, Operating voltage, 3-pole, socket	Order key 85057
Mating connector, Operating voltage, 3-pole, angle socket	Order key 85058