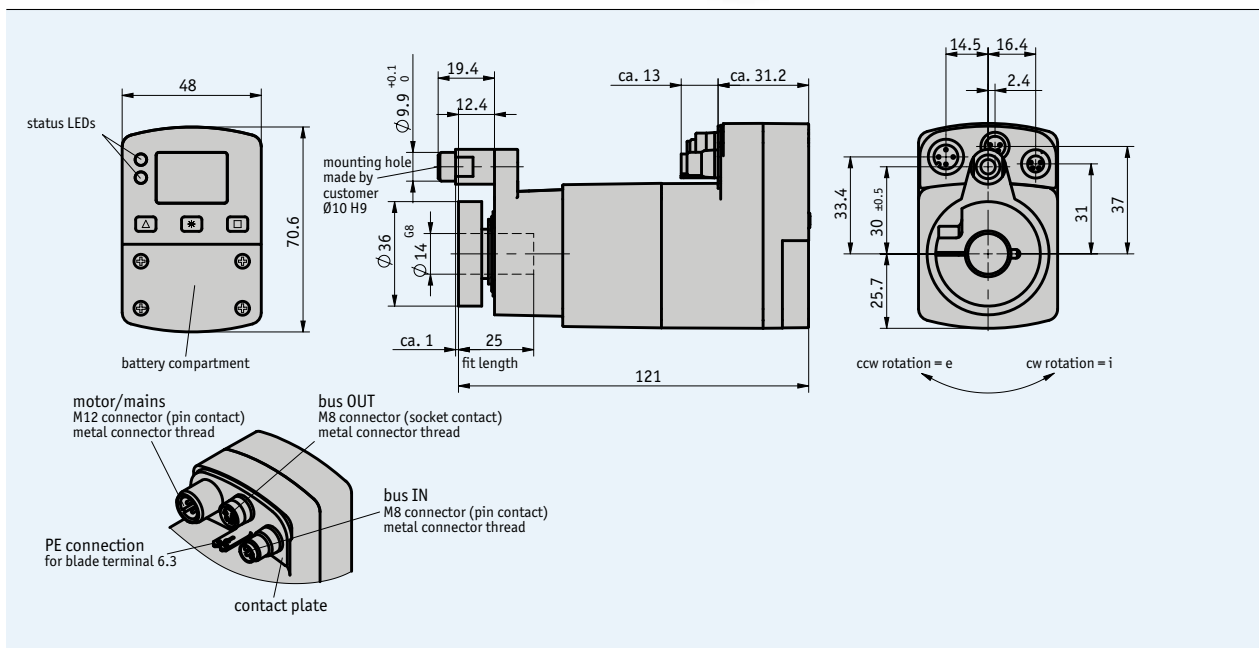


Profile

- easy mounting, no additional coupling needed
- stainless steel 14 mm hollow shaft, glass fibre reinforced casing
- brushless 24 VDC motor with long life cycle
- solid absolute sensor, magnetic sensing technology
- 2-line LCD for target and position value and programming keys
- 2 LEDs for user prompting
- integral RS485 or CANopen interface
- integral position controller
- M8 + M12 component mounting technology



4.1



Mechanical data

Feature	Technical data	Additional information
Pluggable hollow shaft	stainless steel	
Clamping ring/torque pin	aluminium hard anodized	
Housing	glass fiber reinforced plastic	
Nominal torque (max.), nominal rated speed	3 Nm, 26 min ⁻¹ ± 10 %, with i = 98	25 % ED-S2, DIN 57530-1, basis time 10 min
	5 Nm, 16 min ⁻¹ ± 10 %, with i = 173	25 % ED-S2, DIN 57530-1, basis time 10 min
Shock resistance	50 g, 8 ms	DIN EN 60068-2-27
Vibration resistance axial, radial	max. 10 g, 5 ... 150 Hz	DIN EN 60068-2-6
Ambient temperature	0 ... +45 °C	
Storage temperature	0 ... +50 °C	
Humidity	condensation inadmissible	
Interference protection class	category C1	EN 61800-3
Protection category	IP54, IP65	DIN VDE 0470, with mounted mating connectors
Weight	~0.45 kg	
Display	LCD	7-segment plus decimal; two lines each with 5 digits, special signs
Special signs	battery, directional arrows	
Display signs	~7mm high	double display
Signal display	two LEDs	function description (see manual)
Keyboard	parametrizing, reset, inching operation, setpoint setting	

Electrical data

Motor/voltage supply data

Feature	Technical data	Additional information
Operating voltage	24 V DC \pm 10 % reverse-polarity protection	
Power input	~ 26 W	
Rated current, power	1 A \pm 10 %	with maximum torque
Maximum current draw	1.1 A	with output value 100 %
Battery service life	~ 5 years	depending on ambient conditions
Type of connection	1x M12, 2x M8 connector	4-pin, 1xsocket, 2xplug, earthing via flat connector 6.3 mm
Bus connection	RS485	no galvanic isolation

Encoder data

Feature	Technical data	Additional information
Resolution	720 increments/revolution	
Anzahl Umdrehungen	\pm 1300 revolution, with $i=98$ \pm 750 revolution, with $i=173$	

Pin assignment

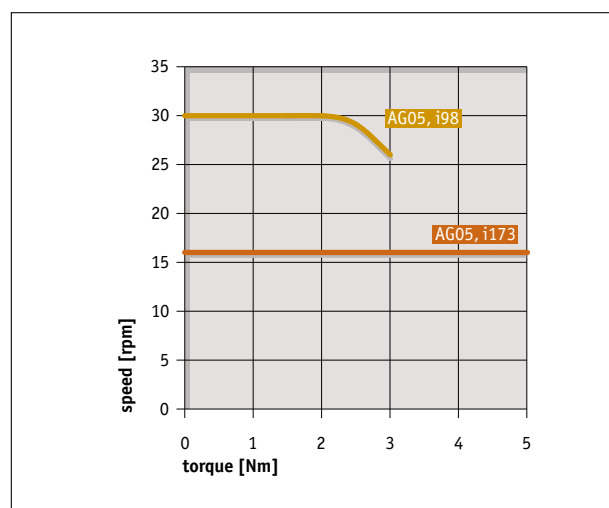
Power/electronics M12 (A encoded)

Signal	PIN
+24 V power/output stage	1
+24 V control unit	2
GND power/output stage	3
GND control unit	4

Interfaces M8

Signal	PIN
TxRx-/DÜB	1
TxRx+/DÜA	2
N.C.	3
GND	4

Performance curve



Order

Order table

Feature	Order data	Specification	Additional information
Gear ratio	98	i = 98	~ 3 Nm, 26 rpm
	173	i = 173	~ 5 Nm, 16 rpm
Protection category	IP54	on request	
	IP65		
Shaft design/diameter	KR/14	clamping ring Ø 14 mm	
		others on request	
Interface/protocol	S5/00	RS485	
	CAN	CANopen	

Order code

AG05 - - 30W - - - ABM -

4.1

Scope of delivery: AG05, Mounting instructions,
CD (manual, EDS file)

Accessories:

Mating connectors
Cable extension

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Additional information:

General information and areas of application

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