

# Actuator AG05



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**Features:**

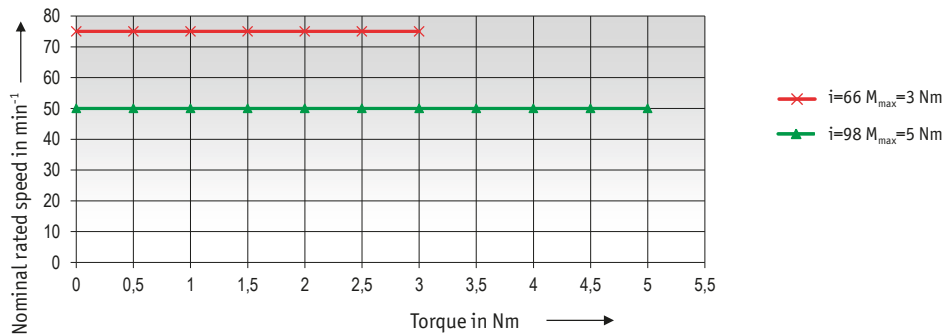
- easy mounting, no additional coupling needed
- stainless steel hollow shaft, glass fibre reinforced casing
- brushless 24 V DC motor with long life cycle
- solid absolute sensor, magnetic sensing technology
- 2-line LCD for target and position value and programming keys
- 2 LEDs for user prompting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

Feature	Order text	Additional information	
Gear ratio	98	25 % ED (on-time)	
	66	25 % ED (on-time)	
Motor power	50W	24 VDC	
Protection	IP54		
	IP65		
Hollow shaft / ø (mm)	KR/14	clamp ring / ø14 mm	
	N/10	JS9 groove according DIN 6885/1 / ø10 mm	
Torque pin	B	bolt ø10 mm, aluminium	standard
	A	bolt ø6 mm, stainless steel	
Position encoder	ABM	absolut magnetic	
Interface / protocol	S3/09	RS485/SIKONETZ5	standard
	CAN	CANopen	
Software	SW		standard

Your ordering:  -  -  -  -  -  -  -  -

## Actuator AG05

AG05-characteristics  
for gear ratio selection



### Technical data

Mechanical data:		Additional information
Shaft	stainless special steel	
Housing	plastic glass-fibre reinforced	
Clamping ring	stainless special steel	
Torque support	aluminium hard anodized	
Nominal torque/rated speed	5 Nm at 50 min <sup>-1</sup> ±10 % 3 Nm at 75 min <sup>-1</sup> ±10 %	i=98 i=66
Operating mode	duty type S3: 25 % ED, 10 min.	EN 60034-1
Weight	~0.45 kg	

### Electrical data:

Operating voltage	24 V DC ±10 % 24 V DC ±10 %	polarity protection, output stage polarity protection, control
Power input	P <sub>zu</sub> = ~58 W	Endstufe
Battery	CR2477N, 3 V lithium, 950 mAh	
Battery service life	~5 years	depending on ambient conditions
Rated current	2.2 A ±10 % <60 mA ±10 %	at max. admissible torque (output stage) at 24 V DC (control)
Display/display range	5 digits LCD 7 segment, ~7 mm height	decimal point, two lines, special signs
Special character	battery, directional arrows	
Status display	two LEDs	function description (see manual)
Keys	parametrizing, reset, inching operation, setpoint setting	
Bus connection	RS485, CANopen	no galvanic isolation
Type of connection	1x M12 connector (A coded) 2x M8 connector (A coded) earthing by contact pin 6.3 mm	4 poles, 1x pin 4 poles, 1x socket, 1x pin

### System data:

Resolution	720 increments/revolution shaft	
Travel range	±1300 turns ±1980 turns	i=98 i=66

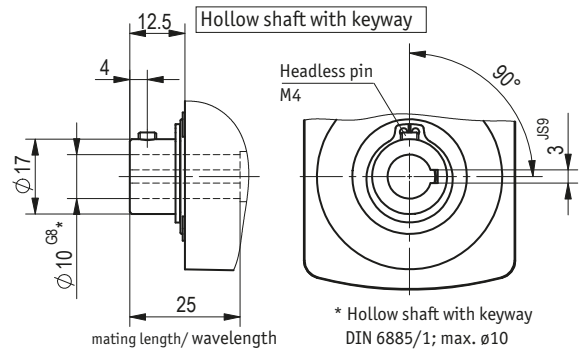
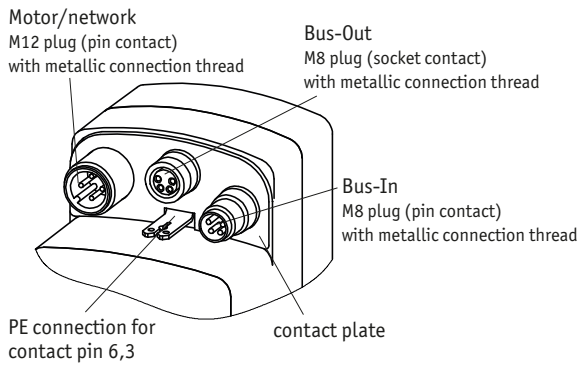
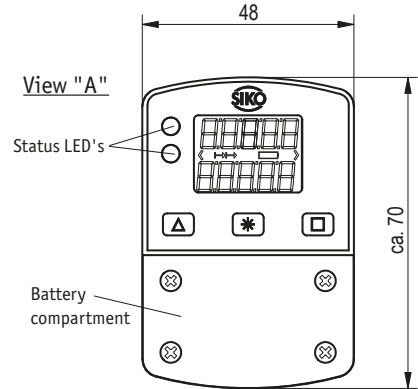
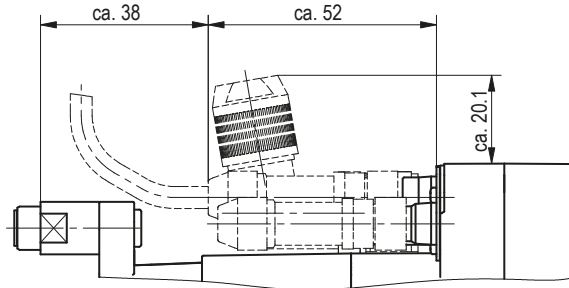
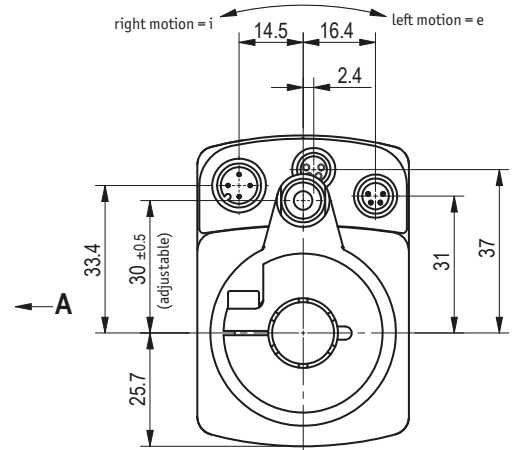
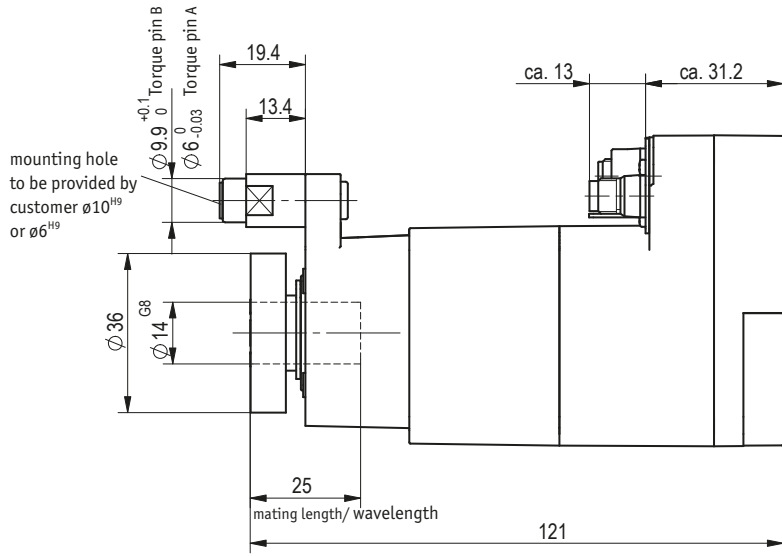
### Ambient conditions:

Operating temperature	0 ... 45 °C	
Storage temperature	0 ... 50 °C	
Relative humidity		condensation not permitted
EMC	EN 61800-3, second environment EN 61800-3, C3	interference resistance / immission emitted interference / emission
Protection category	IP54, IP65	EN 60529, only with mating connectors
Shock resistance	500 m/s <sup>2</sup> , 8 ms	EN 60068-2-27
Vibration resistance	<100 m/s <sup>2</sup> , 5 ... 150 Hz	EN 60068-2-6

### Accessory

BAS-0005	bus termination connector	
KV04S1	cable extension	bus-out/bus-in
KV04S2	cable extension	motor/network
83091	Mating connector motor/network	4pins angle cableconnector, M12 can be shielded
84210	Mating connector bus Out	4pins circular cableconnector, M8 can be shielded
84209	Mating connector bus In	4pins circular cableconnector, M8 can be shielded

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## Pin assignment

### Motor/network M12 (4 pole)

Pin	Signal
1	+UB (output stage)
2	+UB (control)
3	GND (output stage)*
4	GND (control)*

### Bus-In/Out M8 (4 pole)

Pin	Signal
1	DÜB/TxRx-/CANL
2	DÜA/TxRx+/CANH
3	reserved, internally linked
4	SGND *

\* internally linked

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Notes: