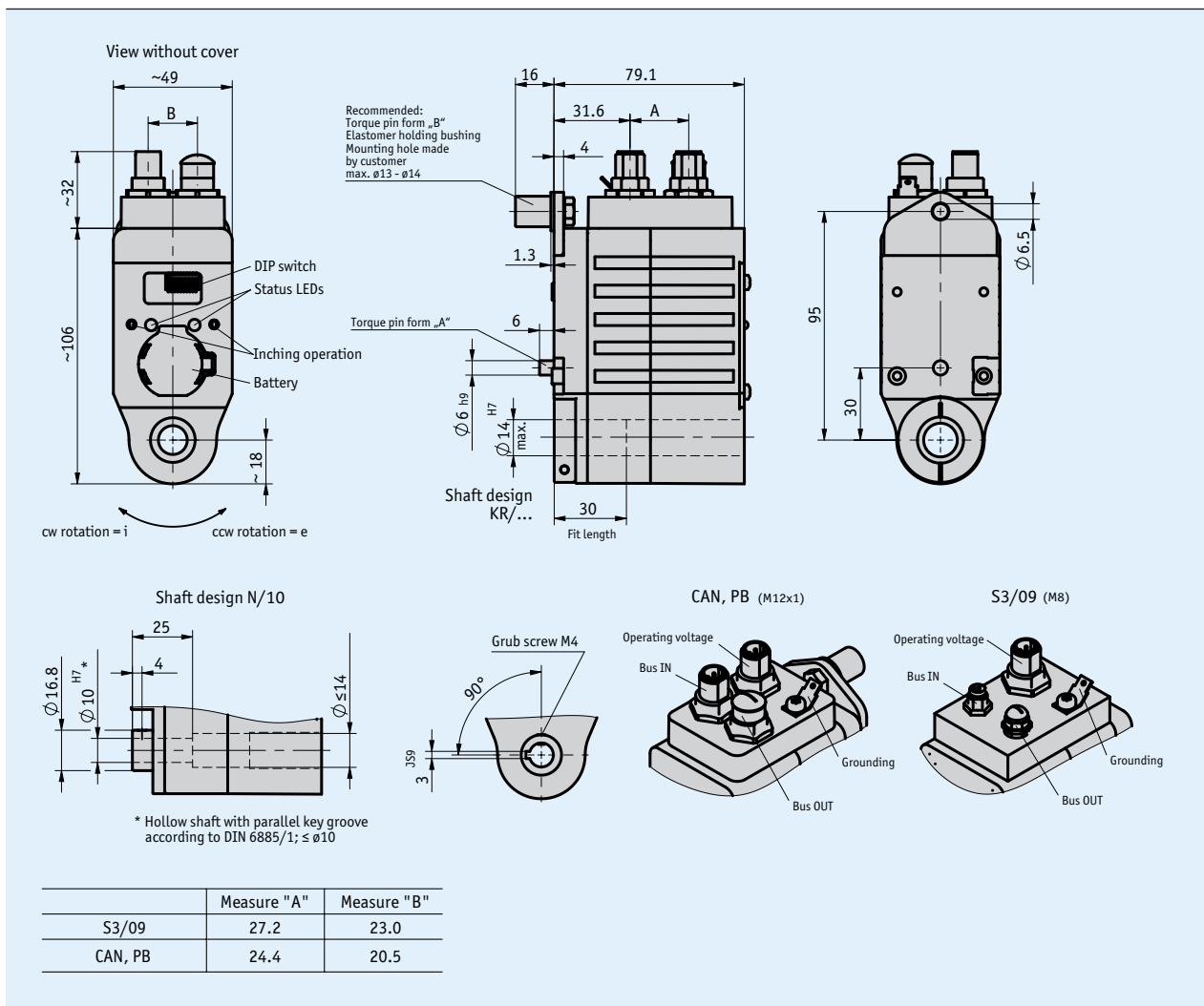


Profile

- Space-saving, easy mounting
- Through hollow shafts up to max. $\varnothing 14$ mm
- Brushless 50 W, 24 V EC motor with long service life
- Integrated power and control electronics with inverse polarity and overload protection
- Integrated absolute position encoder on the output shaft
- Integrated CANopen or Profibus-DP with M12 component mounting technology
- Integrated RS458/SIKONETZ5 interface with M8 component mounting technology



Mechanical data

Feature	Technical data	Additional information
Shaft	black-finished steel	
Housing	aluminum/zinc die cast	anodized / powder-coated
Nominal torque/rated speed	3.2 Nm at 100 rpm	i = 48
	1.6 Nm at 200 rpm	i = 24
Operating mode	S3 intermittent operation: 25 % DC, 10 min.	EN 60034-1

Electrical data

Feature	Technical data	Additional information
Operating voltage	24 V DC $\pm 10\%$	reverse polarity protected, output stage
	24 V DC $\pm 10\%$	reverse polarity protected, control (only CAN, PB, S3/09)
Power input	58 W	output stage
Battery	CR2477N, 3 V lithium, 950 mAh	
Battery service life	~5 year(s)	depending on ambient conditions
Rated current	2.4 A $\pm 10\%$	at max. adm. torque (output stage)
	<100 mA	at 24 V DC (control), only CAN, PB, S3/09
Status display	two LEDs	
Keys	touch keys	for setting-up mode
Bus connection	CANopen, Profibus-DP, SIKONETZ5	galvanic isolation
	Profibus-DP	galvanic isolation
	SIKONETZ5	galvanic isolation
Type of connection	2x M12-plug connectors (A-coded)	5-pole, 1x socket, 1x pin (CAN)
	2x M12 plug connectors (B-coded)	5-pole, 1x socket, 1x pin (PB)
	2x M8-plug connectors	4-pole, 1 x socket, 1 x pin (S3/09)
	1x M12-plug connector (A-coded)	4-pole, 1x pin (CAN + PB + S3/09)
	grounding via flat connector 6.3 mm	

System data

Feature	Technical data	Additional information
Resolution	1600 increments/revolution	
System accuracy	$\pm 0.8^\circ$	unidirectional
Repeat accuracy	± 1 increment(s)	unidirectional / bidirectional
Travel range	± 8192 revolution(s)	

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	0 ... 45 °C	
Storage temperature	-20 ... 60 °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, mating connectors mounted
Shock resistance	500 m/s ² , 8 ms	EN 60068-2-27
Vibration resistance	≤ 100 m/s ² , 5 ... 150 Hz	EN 60068-2-6

Pin assignment

■ Operating voltage

CAN, PB, S3/09	PIN
+UB (output stage)	1
+UB (control)	2
GND (output stage + control)	3
N.C.	4

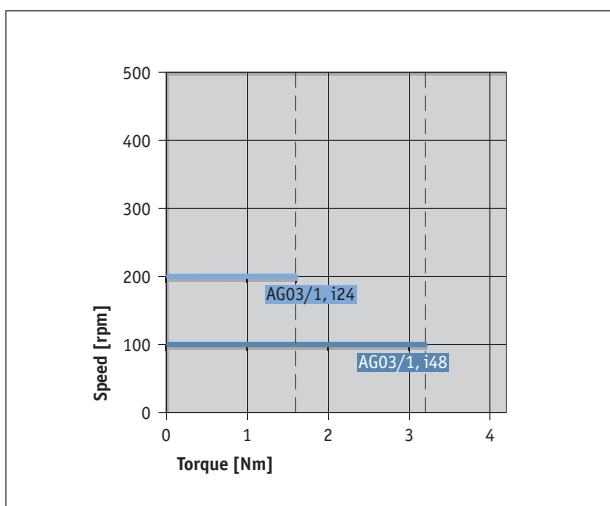
■ Fieldbus S3/09

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

■ Fieldbus PB, CAN

PB	CAN	PIN
N.C.	N.C.	1
BUS A	N.C.	2
N.C.	CAN_GND	3
BUS B	CAN_H	4
N.C.	CAN_L	5

Performance curve



Order

Ordering table

Feature	Ordering data	Specification	Additional information
Gear ratio	48	i = 48	
	24	i = 24	
Protection category	IP50	IP50	
	IP54	IP54	
	IP65	IP65	
Shaft design/diameter	KR/14	clamping ring ø14 mm	
	KR/12	clamping ring ø12 mm	
	N/10	keyway JS9 DIN 6885/1 ø10 mm	
Torque pin	A	bolt, ø6 mm	
	B	lug I	
Fieldbus	CAN	CANopen	
	PB	Profibus-DP	Profidrive
	S3/09	RS485 / SIKONETZ5	

Order key

AG03/1 Fieldbus - A - B - C - D - ABM - E - SW

Scope of delivery: AG03/1 Fieldbus, Mounting instructions, Documentation on CD

Accessories:

Cable extension KV04S1

Cable extension KV04S2

Easy Touch Control ETC5000

Programming software ProTool DL

Mating Connector Overview

Mating connector, operating voltage, 4-pole, socket

Mating connector, operating voltage, 4-pole, angle socket

Mating connector, Profibus IN, 5-pole, angle socket

Mating connector, Profibus IN, 5-pole, socket

Mating connector, Profibus OUT, 5-pole, angular pin

Mating connector, Profibus OUT, 5-pole, pin

Mating connector, CANopen IN, 5-pole, angle socket

Mating connector, CANopen IN, 5-pole, socket

Mating connector, CANopen OUT, 5-pole, angular pin

Mating connector, CANopen OUT, 5-pole, pin

Mating connector, bus IN, 4-pole, socket

Mating connector, bus OUT, 4-pole, pin

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