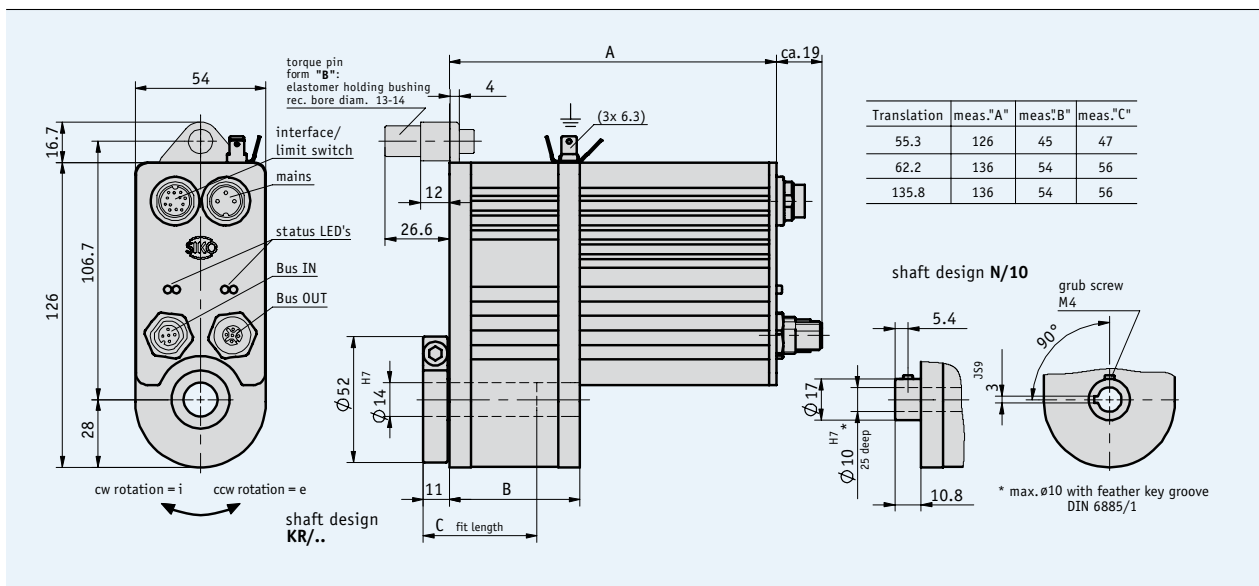


## Profile

- Easy mounting
- Through hollow shafts up to max.  $\varnothing$  14 mm
- Integrated magnetic absolute position encoder on the output shaft
- Integrated positioning controller
- Integrated fieldbus interface (option)



## 4.1



## Mechanical data

Feature	Technical data	Additional information
Hollow shaft	browned steel	
Housing	aluminum	
Nominal torque	5 Nm, 80 rpm (motor 70 W/M) 6 Nm, 70 rpm (motor 70 W/M) 9 Nm, 30 rpm (motor 70 W/M)	with i = 55.3 with i = 62.2 with i = 135.8
Shock resistance	50 g, 11 ms	DIN EN 60068-2-27
Vibration resistance axial, radial	10 g, 50 Hz	DIN EN 60068-2-6
Operating temperature	0 ... +50 °C	condensation inadmissible
Operating mode	short-time operation S2, 25 % duty cycle	according to DIN 57530, VDE 0530, part 1
Interference protection class	acc. to EN 61000-6-2 and EN 61000-6-4	
Protection category	IP50, others on request	according to DIN VDE 0470
Weight	approx. 1.2 kg	

## Electrical data

### Motor/voltage supply data

Feature	Technical data	Additional information
Voltage supply	24 V DC $\pm 10\%$	
Power consumption, fed	70 W	
Max. load current	2.9 A $\pm 4\%$	with $i = 55.3$ , $i = 62.2$
	2.1 A $\pm 4\%$	with $i = 135.8$

### Encoder data

Feature	Technical data	Additional information
Resolution absolute encoder (ABM)	$\pm 6250$ revolutions 1600 steps per revolution	

## Pin assignment

### Voltage supply

Signal	PIN
+Ub	1
N.C.	2
-	3

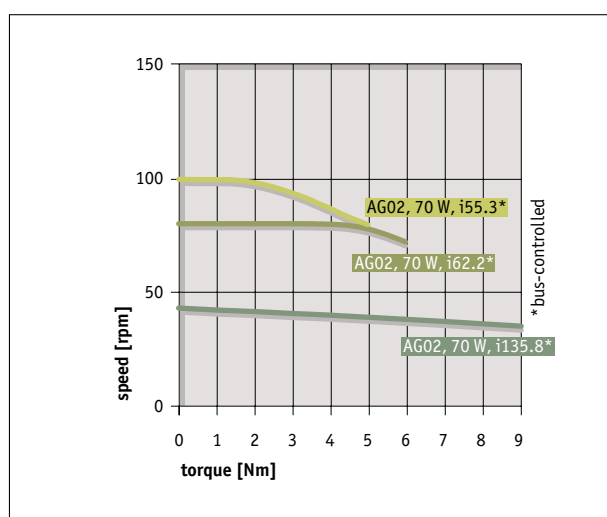
### Fieldbus

Profibus-DP	CANopen	PIN
+5 V DC	N.C.	1
BUS A	N.C.	2
GND	CAN_GND	3
BUS B	CAN_H	4
N.C.	CAN_L	5

### Interface/limit switch

Signal	PIN
ES1	A
ES2	B
Enable (24 V DC)	C
RXD/ DÜA	G
TXD/ DÜB	H
GND/ serial interface	J
GND (ES1, ES2, Emergency-off, CAL)	K
CAL	L
N.C.	D-F, M

## Performance curve



## Order

### Order table

Feature	Order text	Specification	Additional information
Gear ratio	55.3	i = 55.3	
	62.2	i = 62.2	
	135.8	i = 135.8	
Shaft design	KR/14	clamp ring, Ø 14 mm	
	N/10	keyway, Ø 10 mm	only with gear ratio 55.3 or 62.2
		others on request	
Torque support (form)	B	lug I	incl. elastomer bushing
	OD	without	
Interface/protocol	S1/00	RS232, standard, electronic controller	
	S3/00	RS485, standard, electronic controller	
Fieldbus	OFB	without fieldbus	
	PB	Profibus-DP	
	CAN	CANopen	

### Order code

AG02 -  - 70W -  - D -  - LA - ABM - OMS -  -  - SW

**Scope of delivery:** AG02, User information  
CD (manual, GDS and EDS files)

#### Accessories:

Mating connectors Page 48  
 Cable extension Page 50  
 Programming tool PT232 Page 44  
 Programming tool PT485 Page 46  
 S7 module on request

#### Additional information:

General information and areas of application Page 4 cont.