

Actuator AG02

Robust and compact actuator with a high output torque and the field-proven hollow-shaft principle. High flexibility and easy integration owing to various encoder types and driving options.

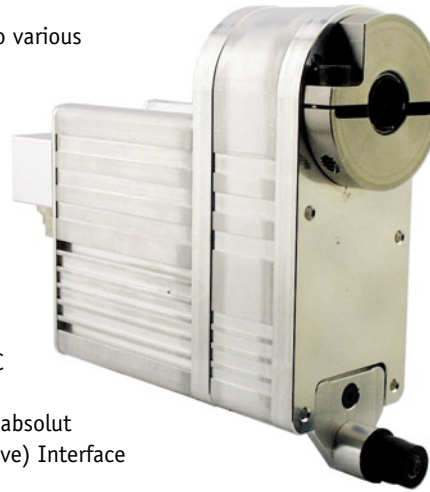


SIKO GmbH

Address
Weihermattenweg 2
79256 Buchenbach

Telephone
+49 7661 394-0
Fax
+49 7661 394-388

eMail
info@siko.de
Internet
www.siko.de



Features:

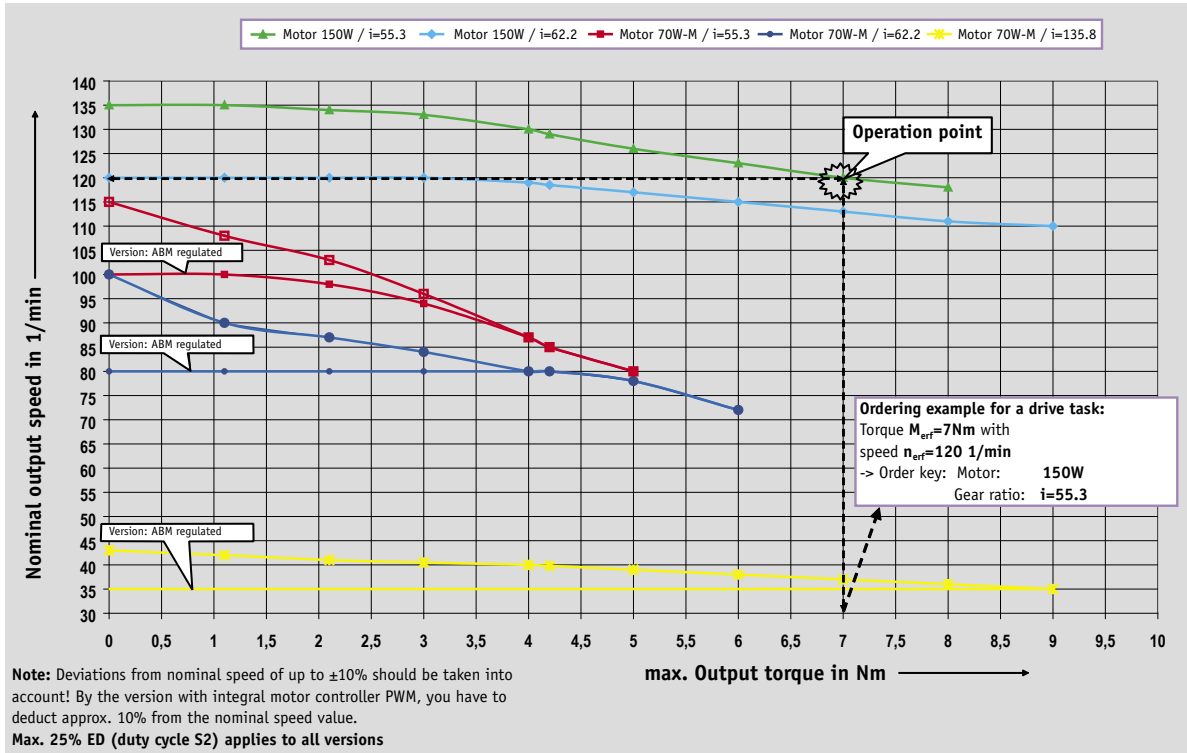
- easy mounting
- through hollow shaft up to max. \varnothing 14mm
- high-performance motor 150W or 70W, 24VDC
- various output speeds
- with integral position transducer: magnetic/ absolut
- with integral CANopen / Profibus-DP (Profidrive) Interface
- integrated motor controller
- RS232 / RS485 service interface

Feature	Order text	Additional information
Gear ratio	55,3	only with encoder ABM (70W/M)
	62,2	
	135,8	
Motor power	150W	25%ED (duty cycle) at short time operation S2
	70W/M	25%ED (duty cycle) at short time operation S2
Shaft type / \varnothing (mm)	KR/14	clamp ring / \varnothing 14mm
	N/10	JS9 DIN 6885/1
Hollow shaft type	S	blind hole
	D	through all
Torque support (form)	B	bracket I
	OD	without
Outlet electrical connection	LR	radial
	LA	axial
Position transducer	LD24	incremental encoder 1000 pulses
	LD5	incremental encoder 1000 pulses
	OP	push pull with inversion
	P10	potentiometer 10K Ω
	MWI	transducer 4...20mA
	MWU	transducer 0...10V
	ABM	absolut magnetic
0	without	
Gear ratio of potentiometer	1 ... 128max.	only with encoder P10, MWI or MWU
Sense of rotation	i	clockwise increasing values
	e	counter-clockwise increasing values
Motor control module PWM	OMS	without
	SD	digital
	SUP	analogue unipolar 0 ... 10V
	SBP	analogue bipolar -10 ... +10V
Interface / protocol	XX/XX	without
	S1/00	RS232/standard
	S3/00	RS485/standard
Fieldbus	OFB	without
	PB	Profibus-DP
	CAN	CANopen
Software	SW	standard

Your ordering: AG02 - A - B - C L - M - N

Actuator AG02

AG02-Drive-Line Selection guide



Technical data

Mechanical data

Hollow shaft	steel blue	
Housing	Aluminium	
Torque (max.) / speed (nom.)	at i=55,3 at i=62,2 at i=135,8	8Nm at 120min ⁻¹ (motor 150W) 9Nm at 110min ⁻¹ (motor 150W) 9Nm at 35min ⁻¹ (Motor 70W/M)
Shock resistance	50g /11ms	
Vibration resistance axial / radial	10g / 50Hz	

Additional information

Electrical data motor

Supply voltage	0 ... 24VDC	
Power consumption	P _{zu} = 150W or P _{zu} = 70W	
Rated current	5.8A±4% (150W) 2.9A±4% (70W/M) 2.1A±4% (70W/M)	max. load current at i=62.2 / i=55.3 max. load current at i=62.2 / i=55.3 max. load current at i=135.8
No-load current (with gear)	500mA ±20%	

Electrical data encoder

	LD5	LD24	OP
Supply voltage	5VDC±5%	24VDC±20%	24VDC±20%
Power consumption	≤ 50mA	≤ 25mA	≤25mA
Output circuit	Line Driver (RS422)	Line Driver (RS422)	Push Pull (OP)
Output signals	A, B, /I, /A, /B, I	A, B, /I, /A, /B, I	A, B, /I, /A, /B, I
Resolution absolute encoder (ABM)	1600 steps per revolution (singleturn)		±6250 revolution (multiturn)

Electrical data potentiometer:

Resistance tolerance	± 5%	
Linearity tolerance	± 0.25%	
Load capacity	2W bei 40°C	Potentiometer
Standard residual end point resistance deviation	0.5% or 1Ω	(whichever value is higher)

Environmental conditions:

Operating temperature (condensation not permitted)	-10°C ... +80°C (general)	0°C ... +70°C (with transducer)	0°C ... +50°C (absolut magnetic)
Protection	IP50		
Operating mode	short-time operation S2 (25%ED)		
Certification / protection class	conforms to CE		

Accessory:

82182	Mating connector for motor / network	3pins circular cableconnector	81363	Mating connector for motor / network	3pins angle cableconnector
76141	Mating connector for encoder	7pins circular cableconnector	76572	Mating connector for encoder	12pins circular cableconnector
79666	Mating connector for encoder	12pins angle cableconnector	81351	Mating connector for PWM	8pins circular cableconnector
82804	Mating connector for Profibus IN	5pins angle cableconnector	82805	Mating connector for Profibus OUT	5pins angle cableconnector
83006	Mating connector for CANopen IN	5pins angle cableconnector	83007	Mating connector for CANopen OUT	5pins angle cableconnector
82816	Bus terminator Profibus	5pins straight connector	82815	Bus terminator CANopen	5pins straight connector

Actuator AG02

Notes: