

Encoder potentiometer

Feature	Technical data	Additional information
Power rating	2 W at 70 °C	P10 position encoder
Resistance tolerance	±5 %	P10 position encoder
Standard terminal resistance	0.2 % or 1 Ω	P10 position encoder (always the higher value)
Linearity tolerance	±0.25 %	P10 position encoder

Transducer, power output

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	at ≤500 Ω load, reverse polarity protected

Transducer, voltage output

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	I _{load} ≤10 mA, reverse polarity protected

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	0 ... 70 °C	
Storage temperature	-20 ... 80 °C	
Relative humidity		condensation inadmissible
EMC	EN 61800-3, second environment	interference resistance / immission
	EN 61800-3, C3	emitted interference / emission
Protection category	IP50	EN 60529, mating connectors mounted
Shock resistance	500 m/s ² , 11 ms	EN 60068-2-27
Vibration resistance	100 m/s ² , 5 ... 150 Hz	EN 60068-2-6

Pin assignment

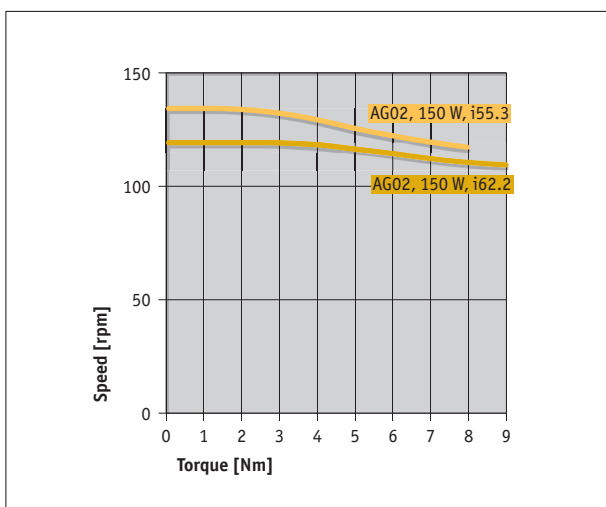
Motor

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

Potentiometer

P01/P10	MWI	MWU	PIN
Pe	I-	GND	1
Po	I+	+24 V DC	2
S	N.C.	Uout	3
N.C.	N.C.	N.C.	4-7

Performance curve



Order

Ordering table

Feature	Ordering data	Specification	Additional information
Gear ratio	55.3	i = 55.3	
	62.2	i = 62.2	
Shaft design/diameter	KR/14	clamping ring, ø14 mm	
	N/10	keyway, ø10 mm	with i=55.3, other transmissions on request
Hollow shaft type	S	blind hole	for the max. length of the stub shaft refer to the table of dimensions
	D	through	
Torque pin	B	lug	incl. elastomer bushing
	OD	without	
Position encoder	MWI	transducer 4 ... 20 mA	10-turn potentiometer
	MWU	transducer 0 ... 10 V	10-turn potentiometer
	P01	potentiometer 1 kΩ	10-turn potentiometer
	P10	potentiometer 10 kΩ	10-turn potentiometer
Potentiometer transmission	...	1 ... 128 max.	
Sense of rotation	i	clockwise ascending values	only with MWI and MWU encoders
	e	counter-clockwise ascending values	only with MWI and MWU encoders

* Calculation of potentiometer gear ratio: For example, if 120 revolutions are required for one adjustment, then a gear ratio of 12 should be indicated for the 10-turn potentiometer. To be precise: number of revolutions required/10 (10-turn potentiometer) = potentiometer gear ratio

Order key

AG02 Analog - A - 150W - B - C - D - LR - E - F - G - OMS - XX/XX - OFB

Scope of delivery: AG02 Analog, Mounting instructions

Accessories:

Cable extension KV02S0

Cable extension KV07S0

Motor control module MS02

Electronic display MA50

Mating Connector Overview

Mating connector, motor/voltage supply, 3-pole, socket

Mating connector, motor/voltage supply, 3-pole, angle socket

Mating connector, encoder/digital inputs, 7-pole, socket

Mating connector, encoder/digital inputs, 7-pole, angle socket

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