

Actuator AG12



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Features:

- DC drive 77 W
- epicyclic gear
- easy mounting
- cost-reducing
- space saving
- max. torque = 15 Nm (with $n = 21 \text{ min}^{-1}$)
- max. speed = 1600 min^{-1} (with $M = 0,35 \text{ Nm}$)
- encoder with 25 pulses/revolution (motor shaft)

Feature	Order text	Additional information
Gear ratio	45,56 A	standard ($M_N = 4,2 \text{ Nm}$ at 140 min^{-1})
Connection type	EX B	standard

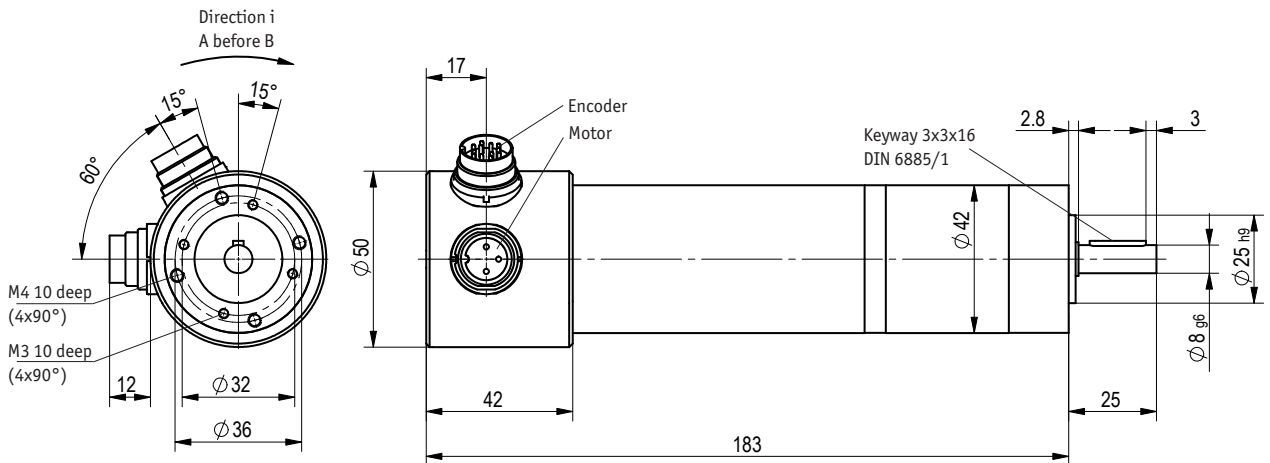
Calculation of the pulse number/revolution on the output shaft:

$$\text{pulses/revolution} = i \times 25$$

i = gear ratio

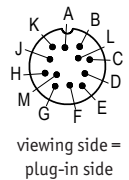
Your ordering: - -

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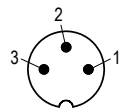
Pin assignment encoder

Pin	A	B	C	D	E	F	G	H	J	K	L	M
Signal	/B	+SUB (Sensor)	N.C.	N.C.	A	/A	N.C.	B	N.C.	GND	SGND (Sensor)	+UB



Pin assignment motor

Pin	1	2	3
Signal	+	N.C.	-



viewing side =
plug-in side

Technical Data

Mechanical data		Additional information
Gear efficiency	ca. 0,8	
Reversion backlash (max.)	0,9°	
Nominal torque	4,2 Nm	
Output speed (n)	140 min ⁻¹	
Load capacity of shaft axial / radial	80 N / 230 N	
Shaft	Steel	
Housing	Steel / aluminium	
Flanges	Aluminium	
Shock resistance	50 g / 11 ms	DIN-IEC 68-2-27
Vibration resistance axial / radial	10 g / 50 Hz	DIN-IEC 68-2-6

Elektrical data

Motor supply voltage	0 ... 24 VDC	
Encoder supply voltage	24 VDC ±20 %	use terminal resistors ≥ 470 Ω
Power consumption	P ₂₄ = 77 W	
Power rating	59 W	
Rated current	4,6 A ±20 %	
No-load current (with gear)	900 mA ±10 %	
Encoder	magnetic	25 pulses/revolution (motor shaft)
Power consumption encoder	< 70 mA	
Output circuit	Line Driver (A, B, /A, /B)	LD 24 V

Environmental conditions

Operating temperature	-10 °C ... +80 °C	condensation not permitted
Protection	IP 40	according to DIN VDE 0470
Operating mode	duty type S3: 25 % ED, 10 min.	according to DIN 57530 / VDE 0530 Part 1

Accessory

KV02S0	cable prolagation motor	angle cableconnector
KV12S0	cable prolagation encoder	angle or circular cableconnector
81363	Mating connector for motor	3 pins angle cableconnector
79666	Mating connector for encoder	12 pins angle cableconnector
76572	Mating connector for encoder	12 pins circular cableconnector