

DRIVECOD

Positioning unit

Series

RD12A



- Integrated positioning unit
- High performance brushless motor
- RS232 service interface for easy setup
- Real absolute multi turn encoder
- Integrated motor brake for enhanced halt functions
- General purpose I/O
- Limit switch inputs
- Additional jog +/- buttons for easy calibration



RD12A

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	0°C +60°C (32°F +140°F)
Storage temperature range:	-20°C +80°C (-4°F +176°F) (98% R.H. without condensation)
Protection:	IP54

MECHANICAL SPECIFICATIONS

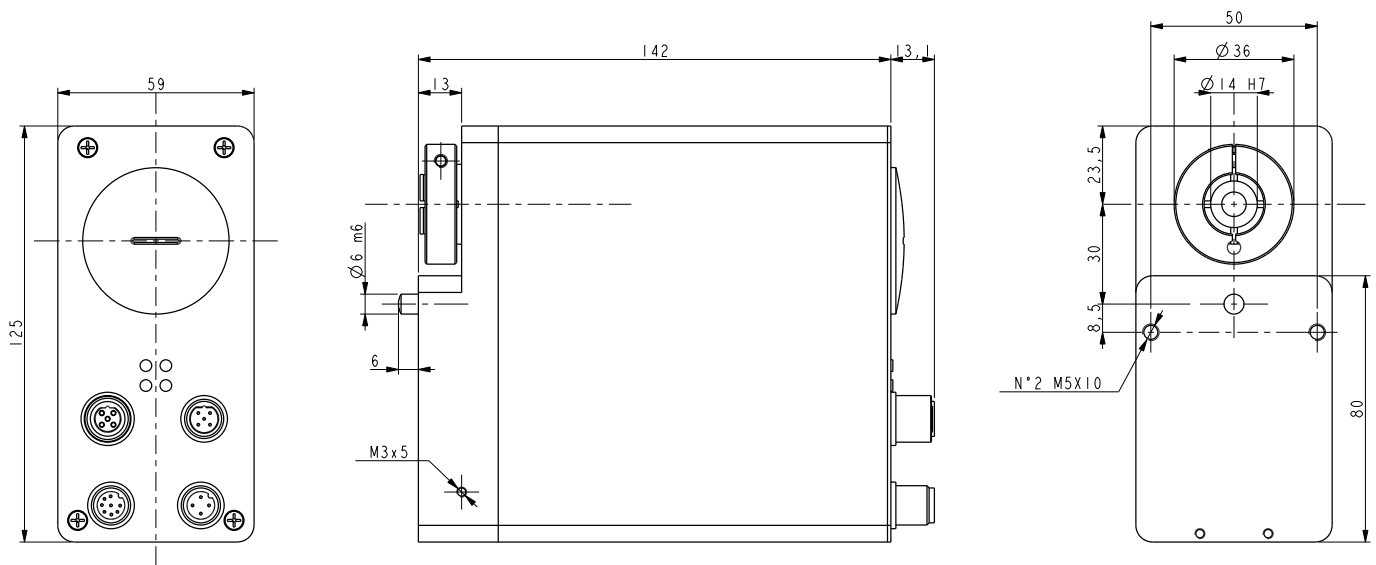
Dimensions:	see drawing
Shaft hollow:	Ø 14 mm
Shaft loading (axial and radial):	100 N, 200 N
Positioning accuracy:	± 0,9°
Electrical connections:	M12 connectors
Duty cycle:	20% ED
Torque and shaft rotational speed:	5 Nm @ 60 rpm (T48) 2,5 Nm @ 120 rpm (T24) 1,2 Nm @ 240 rpm (T12)
Starting torque:	T48: 12 Nm T24: 6 Nm T12: 3 Nm
Weight:	~ 2,1 kg (74,1 oz)

ELECTRICAL SPECIFICATIONS

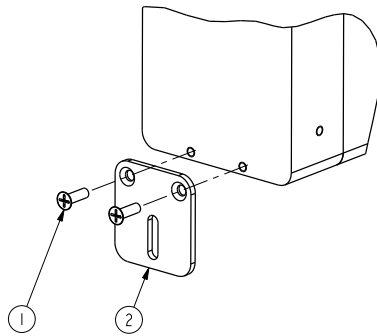
Resolution:	1024 inf./rev. x 1024 rev.
Power supply:	+24Vdc ± 10%
Power (motor):	31 W
Service interface:	RS232 (except Modbus RTU RS485)
Bus Interface:	Profibus-DP, CANopen, Modbus RTU (RS485)
Inputs:	3 x 24V
Output:	1 x o.c @ 100 mA

MATERIALS

Flange:	non corroding, UNI EN AW-6082
Housing:	non corroding, UNI EN AW-6082
Bearings:	ABEC 5
Shaft:	stainless steel non-magnetic, UNI EN 1.4305
Motor:	high performance brushless motor
Brake:	electromagnetic brake



1 + 2 Antirotational plate



RD12A

Order code

RD12A	-	X (a)	-	XXX (b)	-	XX (c)	-	XX (d)	-	X (e)
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(a) POWER SUPPLY

P8 = 24Vdc ± 10%

(b) TORQUE/SHAFT ROTATIONAL SPEED

T48 = 5 Nm @ 60 rpm
 T24 = 2,5 Nm @ 120 rpm
 T12 = 1,2 Nm @ 240 rpm

(c) INTERFACE

I2 = CANopen (DS301)
 I3 = Profibus-DP
 MB = Modbus RTU (RS485)

(d) ENCODER

E2 = Absolute, 1024 inf./rev. x 1024 rev.

(e) CONNECTIONS

M = M12 connectors