

Series Name
EPS-RH
Motor Simplified Name
RH-14

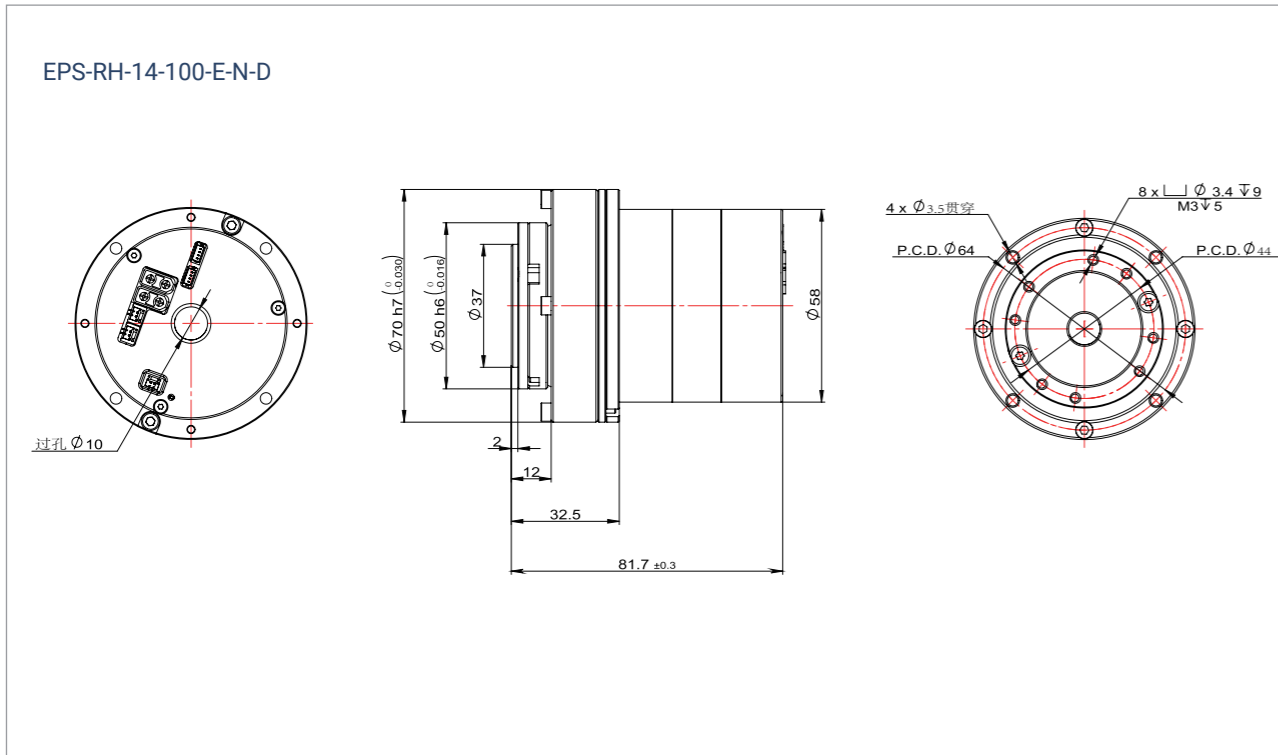


Dual encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-14-100-E-N-D	EtherCAT & CAN BUS	N (without brake)	100

- * 1. The standard model only supports without brake.
- * 2. The standard model does not have waterproof function. For IP54, please contact sales before ordering.
- * 3. 50:1 gear ratio is available, please contact sales to confirm the lead time before ordering.

Installation Drawing



Product Parameters

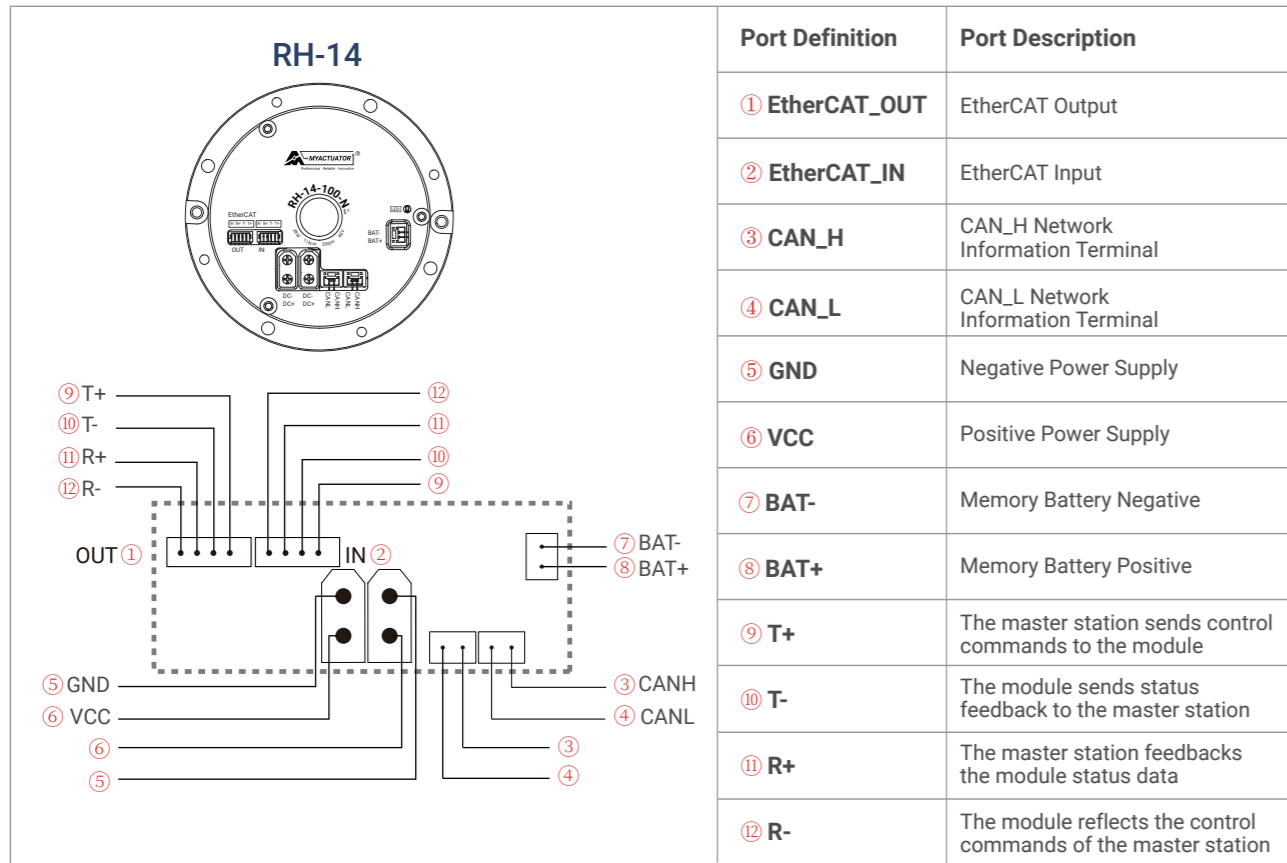
Parameters	Unit	RH-14	
Gear ratio	—	50 100	
Input Voltage	V	48	
No Load Speed	RPM	60 30	
No Load Current	A	0.4 0.4	
Rated Speed	RPM	50 25	
Rated Torque	N.m	5.5 11	
Rated Power	W	28	
Rated Current	A(rms)	2.8	
Peak Torque	N.m	14 28	
Peak Current	A(rms)	5.7	
Motor Back-EMF Constant	Vdc/Krpm	19.2	
Module Torque Constant	N.m/A	2 4	
Motor Phase Resistance	Ω	0.62	
Motor Phase Inductance	mH	0.43	
Pole Pair	—	10	
3 Phase Connection	—	Y	
Backlash	Arcsec	< 40	
Radial Load	Static Load	KN	8.6
	Dynamic Load	KN	5.8
Axial Load	Static Load	KN	58.7
	Dynamic Load	KN	16.2
Inertia	N	kg.m ²	0.11 0.29
	B	kg.m ²	— —
Encoder Type	—	Dual Encoder ABS-17BIT (Input) ABS-17BIT (Output)	
Repeat Position Accuracy	Degree	< 0.01	
Communication	—	EtherCAT & CAN BUS	
Weight	N	Kg	0.78
	B	Kg	/
Insulation Grade	—	F	

*** Rated torque test method:** When the ambient temperature is 24 degrees Celsius (no other heat dissipation methods), the test is performed at the rated speed. The motor torque reaches temperature balance under the condition of a temperature rise of 60 degrees Celsius, and the long-term working point is the rated torque value of the motor.

Stall Torque Data

	Torque (N.m)	Temperature Rise (°C)	Stall Time (s)	Phase Current (Arms)
RH-14	16.5	3	15	3.7
	22	4	10	4.8
	27.5	6	8	6.6

RH-14 Interface Description



RH-14 Packaging Information



List:

- A. Power Supply Cable *2
- B. CAN BUS Communication Cable *2 / Multi-turn battery Cable *1
- C. 120Ω Terminal Resistance *1
- D. EtherCAT Communication Cable *2
- E. CAN BUS Communication Module *1
- F. RJ45 Adapter Plate V1.0 *1 (For Ethercat version)

RH-14 Accessories Marking Instructions

A

Power Supply Cable

① XT30(2+2) Connector	
② Red Line	VCC Positive Power Supply 18AWG 20cm
③ Black Line	GND Negative Power Supply 18AWG 20cm

B

CAN BUS Communication Cable / Multi-turn battery Cable

① GH1.25-2P Connector	
② Black Line	CAN_H Network Information Terminal / Negative Power Supply 300mm
③ White Line	CAN_L Network Information Terminal / Positive Power Supply 300mm

C

120Ω Terminal Resistance

D

EtherCAT Communication Cable

① SH1.0mm(4pin) Connector	
② T	EtherCAT Transmission Wire 480mm
③ R	EtherCAT Receiving Wire 480mm

E

CAN BUS Communication Module

① CAN-L	CAN_L NetworkInformation Terminal
② CAN-H	CAN_H Network Information Terminal
③ CAN-G	GND Ground
④ OFF	120Ω Terminal Resistance
⑤ ON	120Ω Terminal Resistance

Notes: Each order includes one USB-CAN adapter. For additional adapters, please contact our sales team to place an order.

F

RJ45 Adapter Plate V1.0

① RJ45 Connector	Wired Network Interface
② T+	The master station sends control commands to the module
③ T-	The module sends status feedback to the master station
④ R+	The master station feedbacks the module status data
⑤ R-	The module reflects the control commands of the master station

Notes: Ethercat version - Each order includes one RJ45 adapter. For additional adapters, please contact our sales team to place an order.