

RH Series Harmonic Actuator

EtherCAT & CAN BUS



* The pictures of this series of products are subject to the actual products.

Product Features



High Precision



Low Noise



Hollow Design



High Efficiency

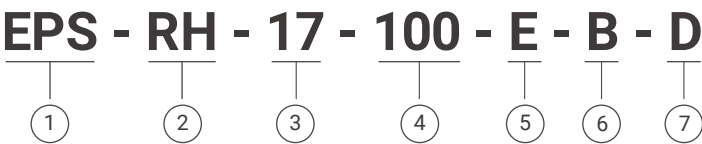


EtherCAT & CAN BUS



Dual Encoder

EPS-RH Series Naming Conventions



- 1

EPS:

Brand Name

E-Efficiency P-Precision S-Smart
- 2

RH:

RH Stands For The Series Name:

Harmonic Actuator
- 3

17:

Harmonic Model e.g:

14/17/20/25/32 etc
- 4

100:

Reduction ratio

100:1
- 5

E:

EtherCAT & CAN BUS
- 6

B:

N: Without Brake

B: with Brake
- 7

D:

D: Dual Encoder

S: Single Encoder

For example

Model	EPS-RH-20-100-E-N-D
Illustrate	EPS: Brand Name
	RH: Harmonic Module
	20: Harmonic Model
	100: Gear ratio 100:1
	E: EtherCAT & CAN BUS
	N: Without Brake
	D: Dual encoder

Series Name

EPS-RH

Motor Simplified Name

RH-11



Dual encoder

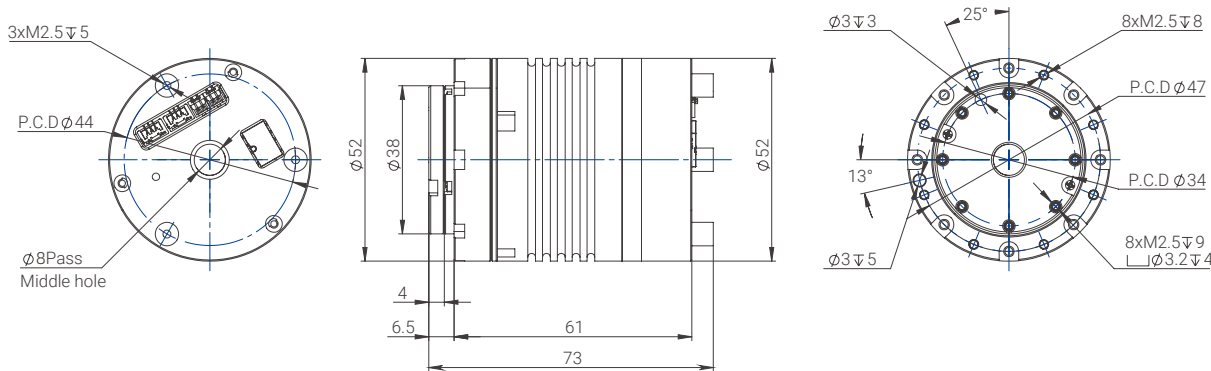
Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-11-80-C-N-D	CAN BUS	N (without brake)	80

* 1. The standard model only supports without brake.

* 2. The standard model does not have waterproof function. For IP54, please contact sales before ordering.

Installation Drawing

EPS-RH-11-80-C-N-D



Product Parameters

Parameters		Unit	RH-11
Gear ratio		—	80
Input Voltage		V	24
No Load Speed		RPM	40
No Load Current		A	0.25
Rated Speed		RPM	25
Rated Torque		N.m	5
Rated Power		W	13
Rated Current		A(rms)	1.4
Peak Torque		N.m	21
Peak Current		A(rms)	5
Motor Back-EMF Constant		Vdc/Krpm	12
Module Torque Constant		N.m/A	3.65
Motor Phase Resistance		Ω	2.7
Motor Phase Inductance		mH	0.47
Pole Pair		—	13
3 Phase Connection		—	Y
Backlash		Arcsec	<40
Radial Load	Static Load	KN	7.55
	Dynamic Load	KN	5.29
Axial Load	Static Load	KN	1.13
	Dynamic Load	KN	1.13
Inertia	N	kg.m ²	0.29
	B	kg.m ²	/
Encoder Type		—	Dual Encoder ABS-14BIT (Input) / ABS-17BIT (Output)
Repeat Position Accuracy		Degree	< 0.01
Communication		—	CAN BUS
Weight	N	Kg	0.38
	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-11	7.5	11	15	2.1
	10	37	10	2.8
	15	44	8	4.1
	21	38	5	5.9

Series Name

EPS-RH

Motor Simplified Name

RH-14



Dual encoder

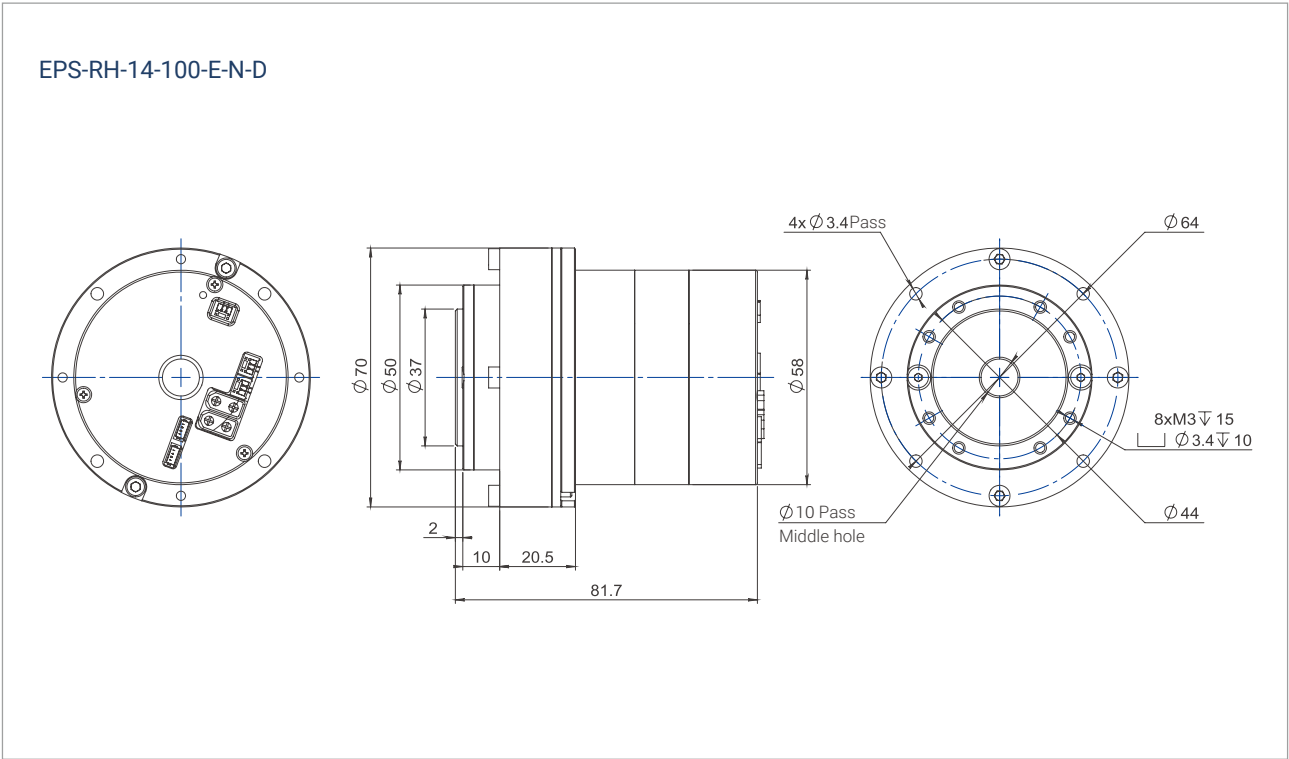
Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-14-100-E-N-D	EtherCAT & CAN BUS	N (without brake)	100

* 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

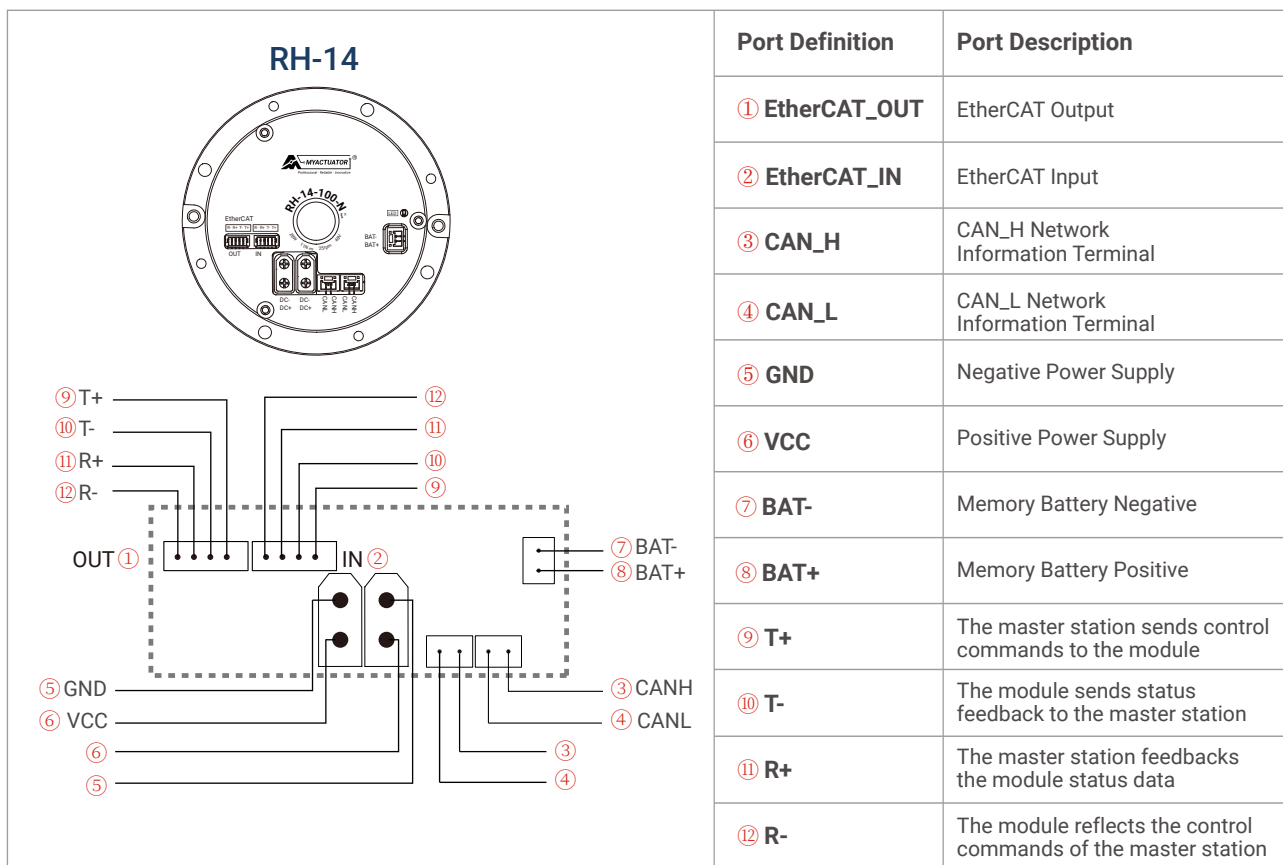
Parameters	Unit	RH-14
Gear ratio	—	50 100
Input Voltage	V	48
No Load Speed	RPM	60 30
No Load Current	A	0.4 0.4
Rated Speed	RPM	50 25
Rated Torque	N.m	5.5 11
Rated Power	W	28
Rated Current	A(rms)	2.8
Peak Torque	N.m	14 28
Peak Current	A(rms)	5.7
Motor Back-EMF Constant	Vdc/Krpm	19.2
Module Torque Constant	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
	Dynamic Load	KN
Axial Load	Static Load	KN
	Dynamic Load	KN
Inertia	N	kg.m ²
	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
	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



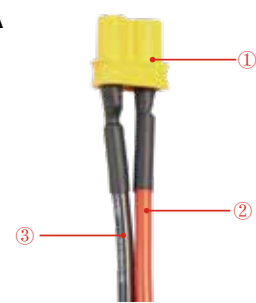
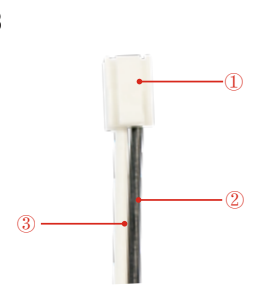

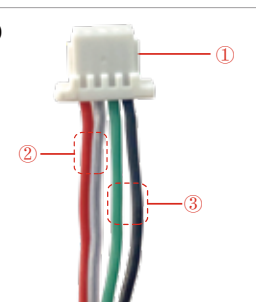

RH-14 Packaging Information



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 (For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.)

RH-14 Accessories Marking Instructions

A 	Power Supply Cable	
	① XT30(2+2) Connector	
	② Red Line	VCC Positive Power Supply
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
C 	120Ω Terminal Resistance	
D 	EtherCAT Communication Cable	
	① SH1.0mm(4pin) Connector	
	② T	EtherCAT Transmission Wire
E 	CAN BUS Communication Module	
	① CAN-L	CAN_L Network Information 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: For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.

Series Name

EPS-RH

Motor Simplified Name

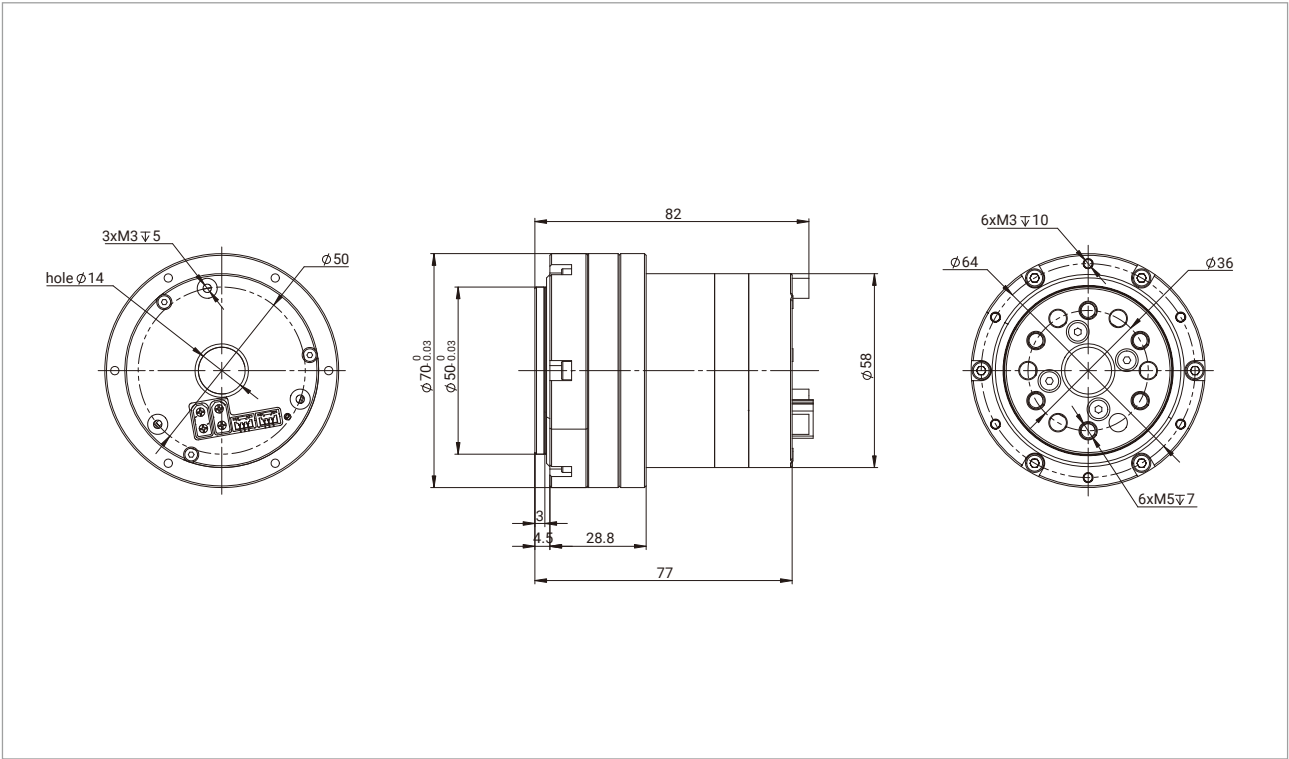
RH-17 Lite



Dual encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-17-Lite-100-C-N-D	CAN BUS	N (without brake)	100

Installation Drawing



Product Parameters

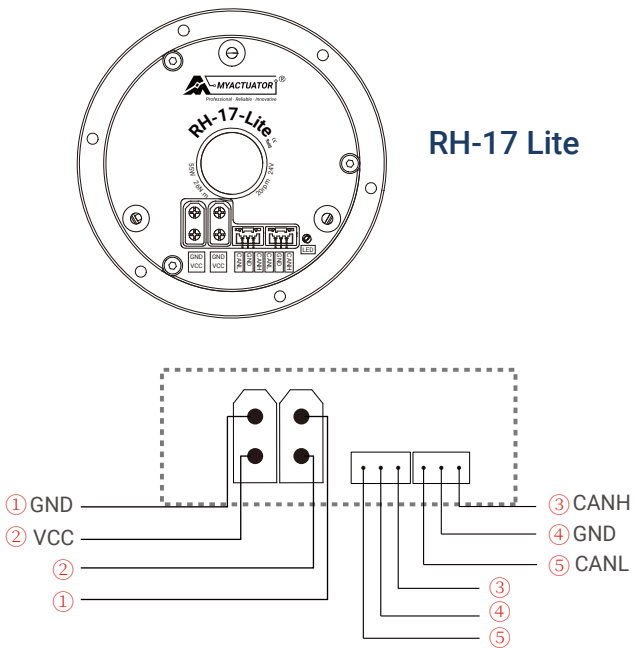
Parameters	Unit	RH-17 Lite
Gear ratio	—	100
Input Voltage	V	24
No Load Speed	RPM	25
No Load Current	A	0.25
Rated Speed	RPM	20
Rated Torque	N.m	26
Rated Power	W	55
Rated Current	A(rms)	5.0
Peak Torque	N.m	65.0
Peak Current	A(rms)	12.6
Motor Back-EMF Constant	Vdc/Krpm	12.00
Module Torque Constant	N.m/A	5.17
Motor Phase Resistance	Ω	0.94
Motor Phase Inductance	mH	0.41
Pole Pair	—	10
3 Phase Connection	—	Y
Backlash	Arcsec	<40
Inertia	kg.m ²	0.32
Encoder Type	—	Dual Encoder ABS-14BIT (Input) / ABS-17BIT (Output)
Repeat Position Accuracy	Degree	< 0.01
Communication	—	CAN BUS
Weight	Kg	0.8
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-17 Lite	39	26	15	7.5
	47	44	10	9.2
	52	47	8	10
	65	36	5	12.3

RH-17 Lite Interface Description

	Port Definition	Port Description
	① GND	Negative Power Supply
	② VCC	Positive Power Supply
	③ CAN_H	CAN_H Network Information Terminal
	④ GND	Negative Power Supply
	⑤ CAN_L	CAN_L Network Information Terminal

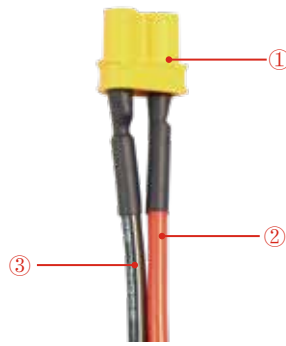
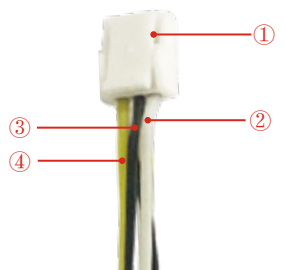


RH-17 Lite Packaging Information



List:

- A. Power Supply Cable *2
- B. CAN BUS Communication Cable *2
- C. 120Ω Terminal Resistance *1
- D. CAN BUS Communication Module *1 (For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.)

RH-17 Lite Accessories Marking Instructions

A 	Power Supply Cable	
	① XT30(2+2) Connector	
	② Red Line	VCC Positive Power Supply
B 	CAN BUS Communication Cable	
	① GH1.25-3P Connector	
	② White Line	CAN_L Network Information Terminal
	③ Black Line	GND Negative Power Supply
C 	120Ω Terminal Resistance	
D 	CAN BUS Communication Module	
	① CAN-L	CAN_L Network Information 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 : For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.		

Series Name

EPS-RH

Motor Simplified Name

RH-17



Dual encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-17-100-E-N-D	EtherCAT & CAN BUS	N (without brake)	100
EPS-RH-17-100-E-B-D	EtherCAT & CAN BUS	B (with brake)	100

* 1. The standard model supports brake or without brake.

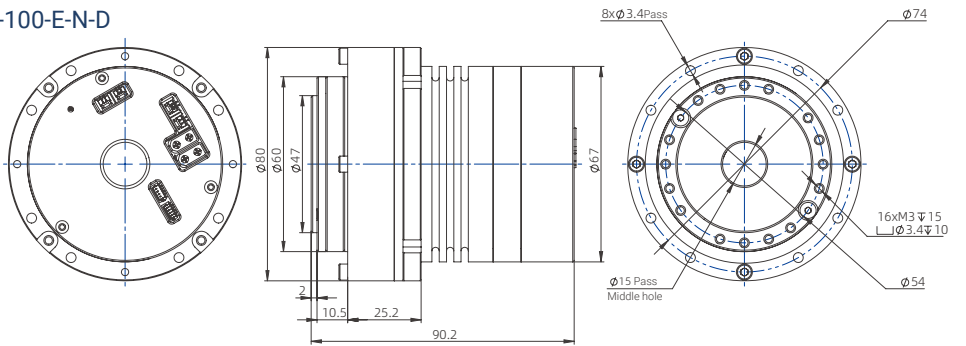
* 2. The standard model supports both CAN BUS & EtherCAT.

* 3. The standard model does not have waterproof function. For IP54, please contact sales before ordering.

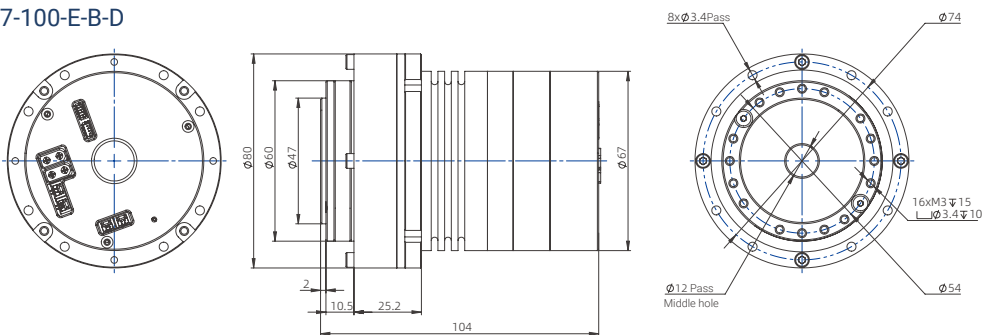
* 4. 50:1 gear ratio is available, please contact sales to confirm the lead time before ordering.

Installation Drawing

EPS-RH-17-100-E-N-D



EPS-RH-17-100-E-B-D



Product Parameters

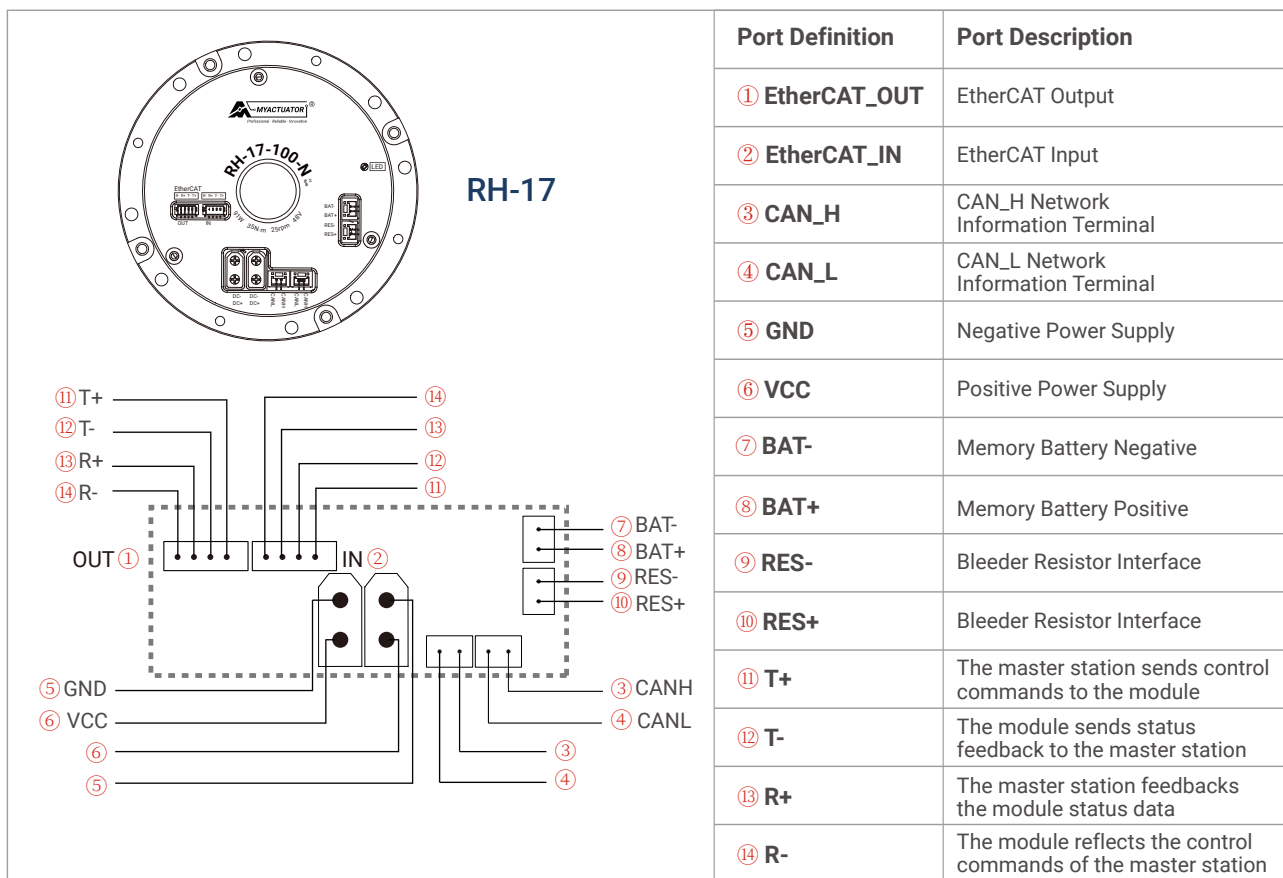
Parameters	Unit	RH-17
Gear ratio	—	50 100
Input Voltage	V	48
No Load Speed	RPM	60 30
No Load Current	A	0.6 0.6
Rated Speed	RPM	50 25
Rated Torque	N.m	17.5 35
Rated Power	W	91
Rated Current	A(rms)	4.7
Peak Torque	N.m	27 54
Peak Current	A(rms)	7.4
Motor Back-EMF Constant	Vdc/Krpm	19.2
Module Torque Constant	N.m/A	3.7 7.4
Motor Phase Resistance	Ω	0.7
Motor Phase Inductance	mH	0.47
Pole Pair	—	10
3 Phase Connection	—	Y
Backlash	Arcsec	< 40
Radial Load	Static Load	KN
	Dynamic Load	KN
Axial Load	Static Load	KN
	Dynamic Load	KN
Inertia	N	kg.m ²
	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
	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-17	52.5	15	15	6.9
	70	7	10	9.8
	87.5	35	8	11.9

RH-17 Interface Description



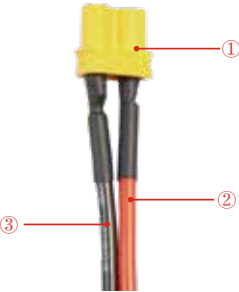
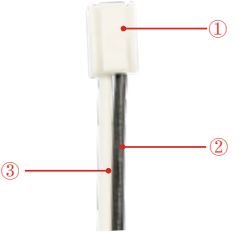

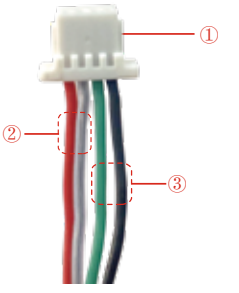

RH-17 Packaging Information



List:

- A. Power Supply Cable *2
- B. CAN BUS Communication Cable *2 / Bleeder Resistor Cable *1 / Multi-turn battery Cable *1
- C. 120Ω Terminal Resistance *1
- D. EtherCAT Communication Cable *2
- E. CAN BUS Communication Module *1 (For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.)

RH-17 Accessories Marking Instructions

A 	Power Supply Cable	
	① XT30(2+2) Connector	
	② Red Line	VCC Positive Power Supply
B 	CAN BUS Communication Cable / Bleeder Resistor Cable / Multi-turn battery Cable	
	① GH1.25-2P Connector	
	② Black Line	CAN_H Network Information Terminal / Negative Power Supply / Negative Power Supply
C 	120Ω Terminal Resistance	
D 	EtherCAT Communication Cable	
	① SH1.0mm(4pin) Connector	
	② T	EtherCAT Transmission Wire
E 	CAN BUS Communication Module	
	① CAN-L	CAN_L Network Information 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: For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.

Series Name

EPS-RH

Motor Simplified Name

RH-20



Dual encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-20-100-E-N-D	EtherCAT & CAN BUS	N (without brake)	100
EPS-RH-20-100-E-B-D	EtherCAT & CAN BUS	B (with brake)	100

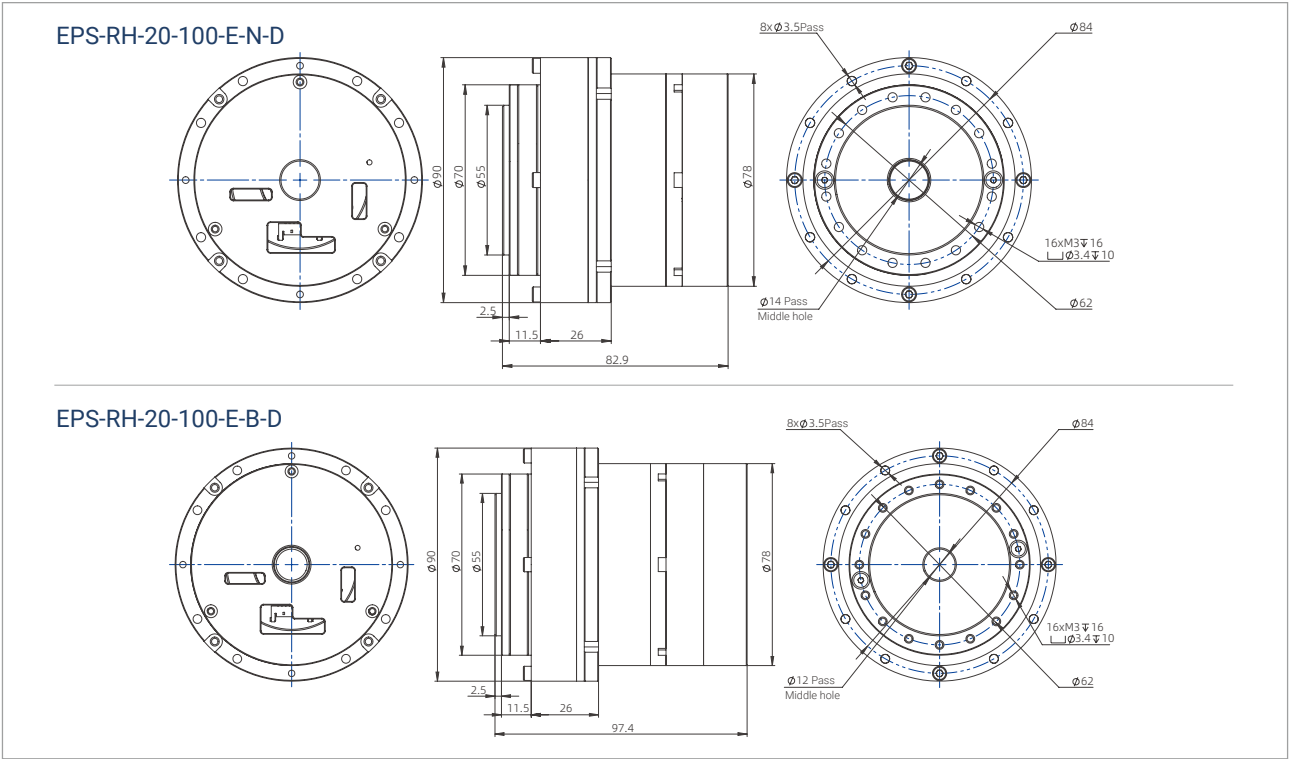
* 1. The standard model supports brake or without brake.

* 2. The standard model supports both CAN BUS & EtherCAT.

* 3. The standard model does not have waterproof function. For IP54, please contact sales before ordering.

* 4. 50:1 gear ratio is available, please contact sales to confirm the lead time before ordering.

Installation Drawing



Product Parameters

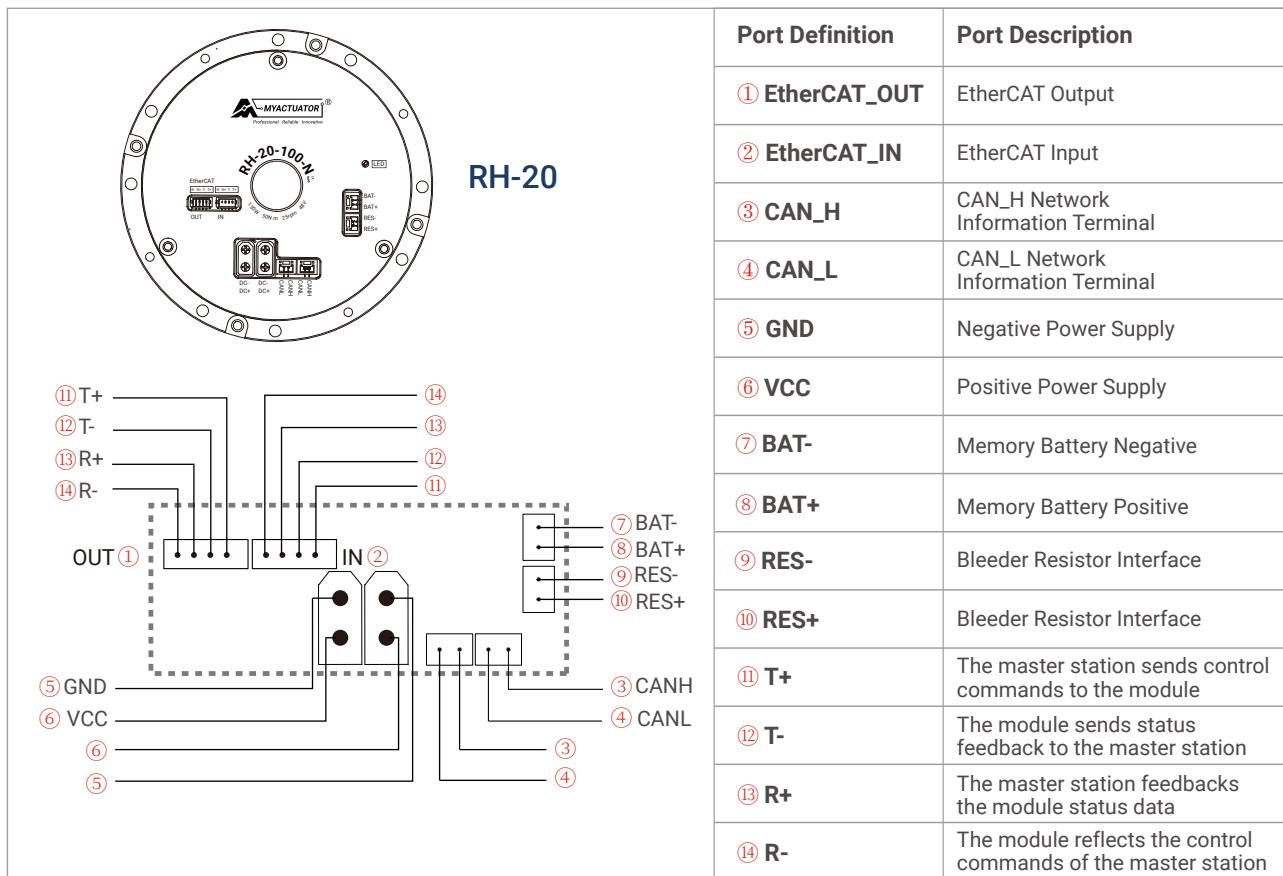
Parameters	Unit	RH-20
Gear ratio	—	50 100
Input Voltage	V	48
No Load Speed	RPM	60 30
No Load Current	A	1.1 1.2
Rated Speed	RPM	50 25
Rated Torque	N.m	25 50
Rated Power	W	130
Rated Current	A(rms)	6.8
Peak Torque	N.m	40 80
Peak Current	A(rms)	10.6
Motor Back-EMF Constant	Vdc/Krpm	19.2
Module Torque Constant	N.m/A	3.65 7.3
Motor Phase Resistance	Ω	0.36
Motor Phase Inductance	mH	0.51
Pole Pair	—	10
3 Phase Connection	—	Y
Backlash	Arcsec	< 40
Radial Load	Static Load	KN
	Dynamic Load	KN
Axial Load	Static Load	KN
	Dynamic Load	KN
Inertia	N	kg.m ²
	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
	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.

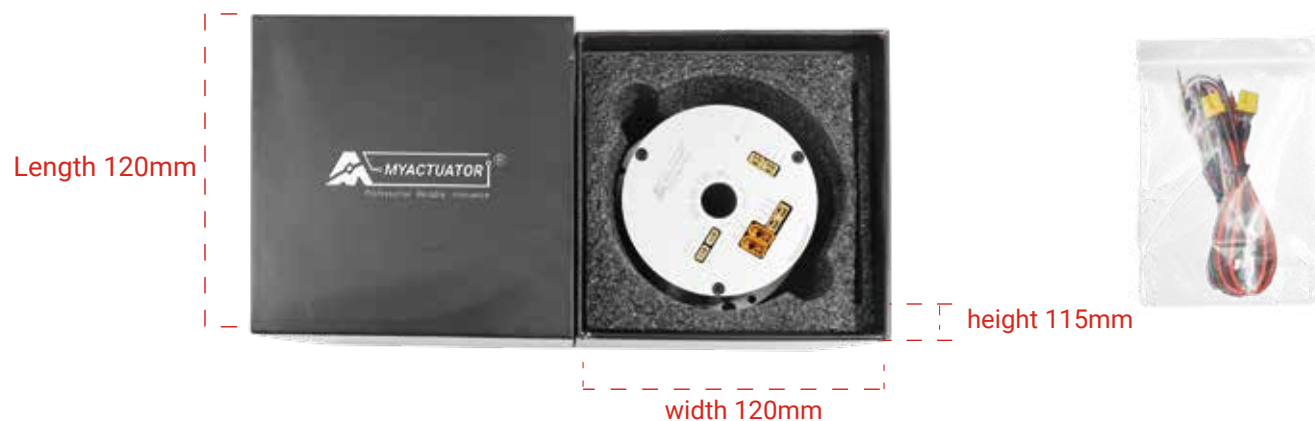
Stall Torque Data

	Torque (N.m)	Temperature Rise (°C)	Stall Time (s)	Phase Current (Arms)
RH-20	75	12	15	10.5
	100	8	10	13.5
	125	15	8	18

RH-20 Interface Description



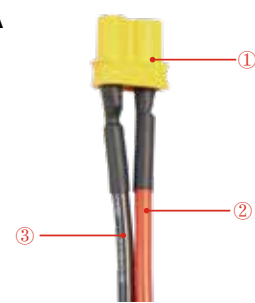
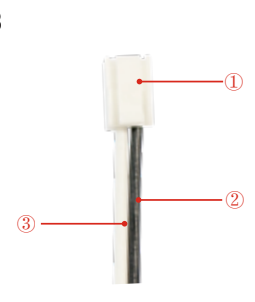

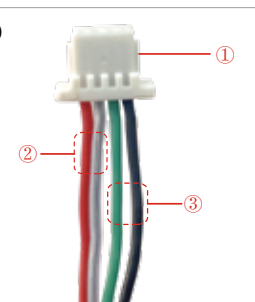

RH-20 Packaging Information



List:

- A. Power Supply Cable *2
- B. CAN BUS Communication Cable *2 / Bleeder Resistor Cable *1 / Multi-turn battery Cable *1
- E. 120Ω Terminal Resistance *1
- F. EtherCAT Communication Cable *2
- G. CAN BUS Communication Module *1 (For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.)

RH-20 Accessories Marking Instructions

A 	Power Supply Cable	
	① XT30(2+2) Connector	
	② Red Line	VCC Positive Power Supply
B 	CAN BUS Communication Cable / Bleeder Resistor Cable / Multi-turn battery Cable	
	① GH1.25-2P Connector	
	② Black Line	CAN_H Network Information Terminal / Negative Power Supply / Negative Power Supply
C 	120Ω Terminal Resistance	
D 	EtherCAT Communication Cable	
	① SH1.0mm(4pin) Connector	
	② T	EtherCAT Transmission Wire
E 	CAN BUS Communication Module	
	① CAN-L	CAN_L Network Information 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: For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.

Series Name

EPS-RH

Motor Simplified Name

RH-25

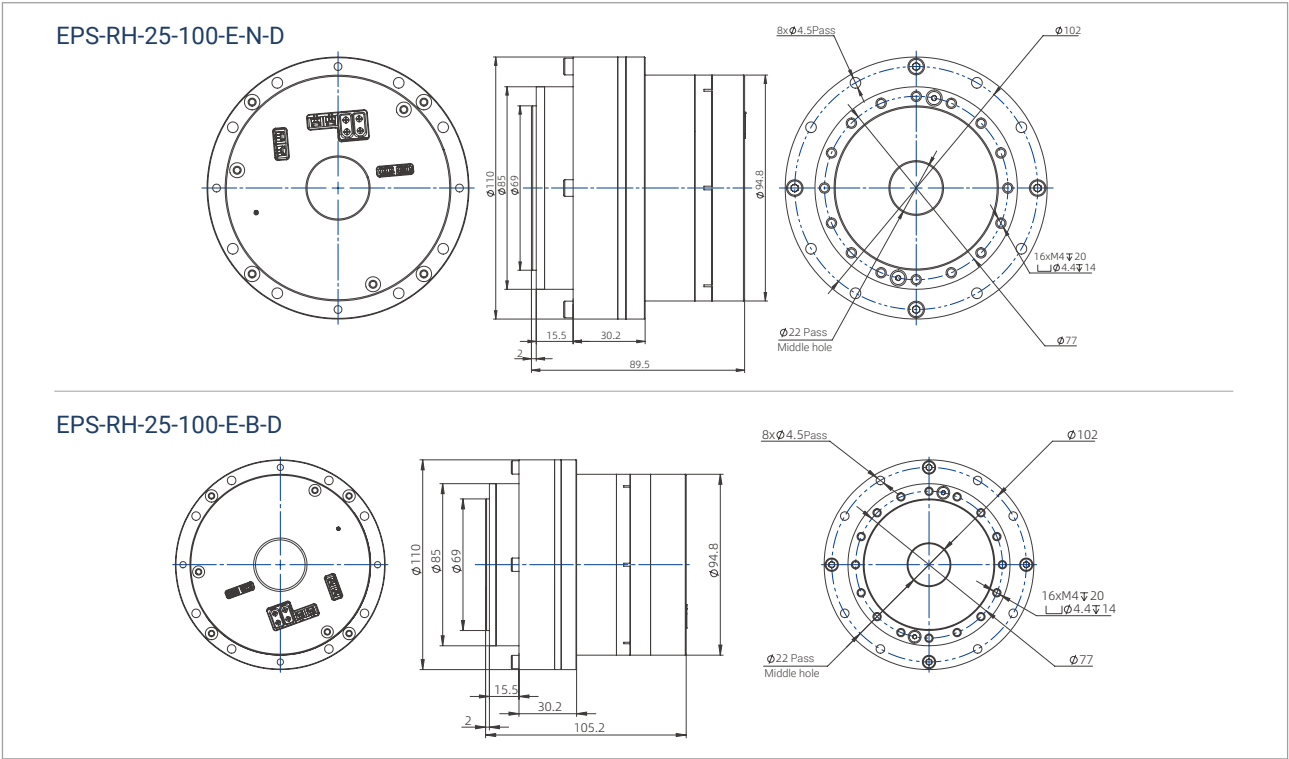


Dual encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-25-100-E-N-D	EtherCAT & CAN BUS	N (without brake)	100
EPS-RH-25-100-E-B-D	EtherCAT & CAN BUS	B (with brake)	100

- * 1. The standard model supports brake or without brake.
* 2. The standard model supports both CAN BUS & EtherCAT.
* 3. The standard model does not have waterproof function. For IP54, please contact sales before ordering.
* 4. 50:1 gear ratio is available, please contact sales to confirm the lead time before ordering.

Installation Drawing



Product Parameters

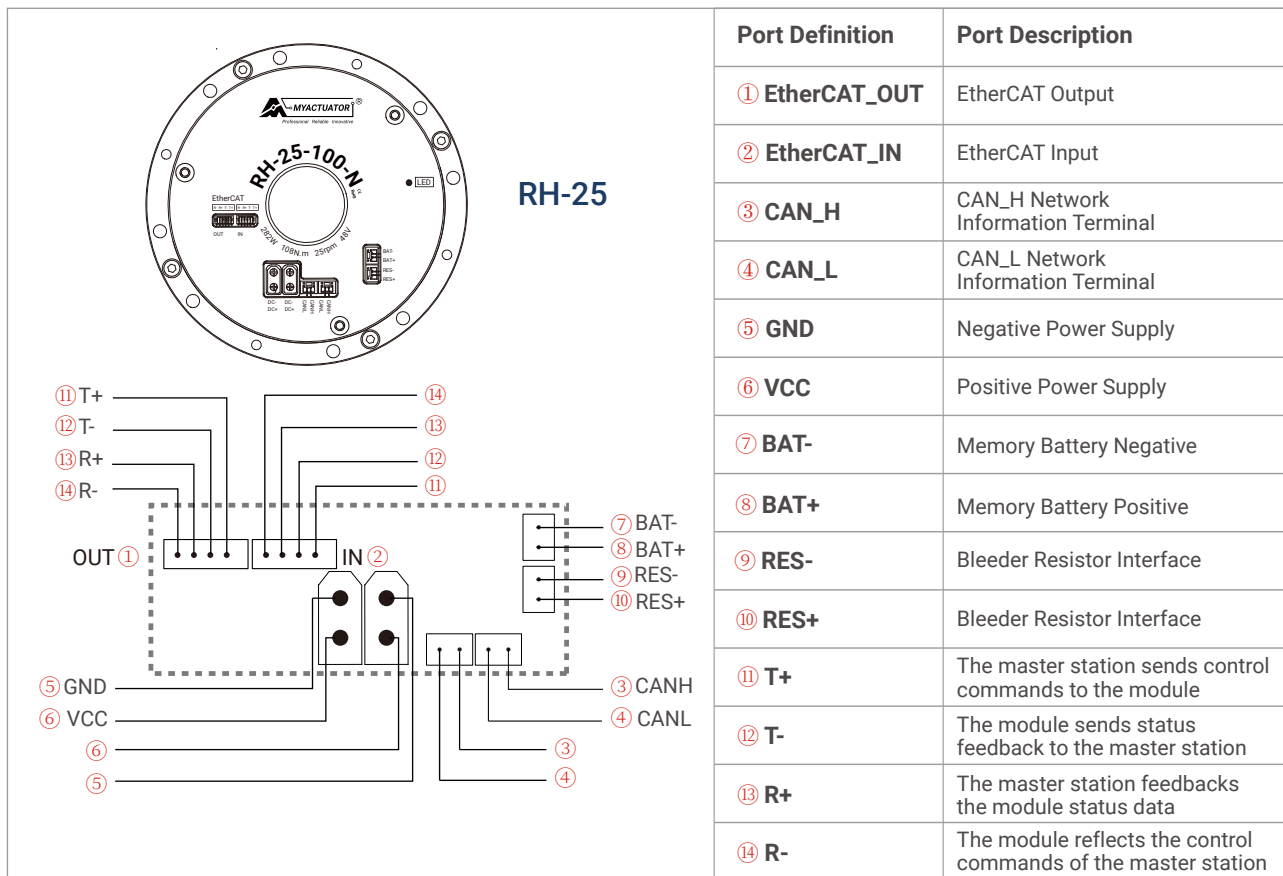
Parameters	Unit	RH-25
Gear ratio	—	50 100
Input Voltage	V	48
No Load Speed	RPM	60 30
No Load Current	A	1.8 2
Rated Speed	RPM	50 25
Rated Torque	N.m	54 108
Rated Power	W	282
Rated Current	A(rms)	10.6
Peak Torque	N.m	78.5 157
Peak Current	A(rms)	14.1
Motor Back-EMF Constant	Vdc/Krpm	19.2
Module Torque Constant	N.m/A	5.05 10.1
Motor Phase Resistance	Ω	0.16
Motor Phase Inductance	mH	0.33
Pole Pair	—	10
3 Phase Connection	—	Y
Backlash	Arcsec	< 40
Radial Load	Static Load	KN
	Dynamic Load	KN
Axial Load	Static Load	KN
	Dynamic Load	KN
Inertia	N	kg.m ²
	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
	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-25	162	3	15	18
	216	9	10	22.1
	256	39	5	24.6

RH-25 Interface Description



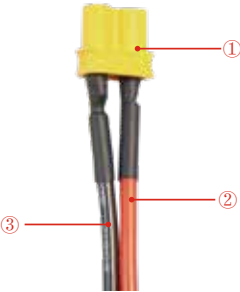
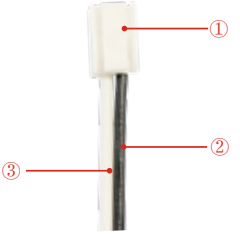

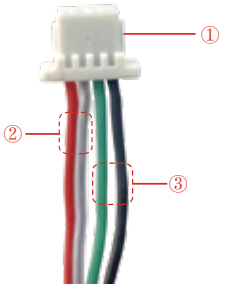

RH-25 Packaging Information



List:

- A. Power Supply Cable *2
- B. CAN BUS Communication Cable *2 / Bleeder Resistor Cable *1 / Multi-turn battery Cable *1
- C. 120Ω Terminal Resistance *1
- D. EtherCAT Communication Cable *2
- E. CAN BUS Communication Module *1 (For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.)

RH-25 Accessories Marking Instructions

A 	Power Supply Cable	
	① XT30(2+2) Connector	
	② Red Line	VCC Positive Power Supply
B 	CAN BUS Communication Cable / Bleeder Resistor Cable / Multi-turn battery Cable	
	① GH1.25-2P Connector	
	② Black Line	CAN_H Network Information Terminal / Negative Power Supply / Negative Power Supply
C 	120Ω Terminal Resistance	
D 	EtherCAT Communication Cable	
	① SH1.0mm(4pin) Connector	
	② T	EtherCAT Transmission Wire
E 	CAN BUS Communication Module	
	① CAN-L	CAN_L Network Information 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: For each order, there will be a free USB-CAN adapter. If need more, please contact sales to buy.

Series Name

EPS-RH

Motor Simplified Name

RH-32



Dual encoder

Actuator Full Name	Communication	With Brake/Without Brake	Gear ratio
EPS-RH-32-100-E-N-D	EtherCAT & CAN BUS	N (without brake)	100
EPS-RH-32-100-E-B-D	EtherCAT & CAN BUS	B (with brake)	100

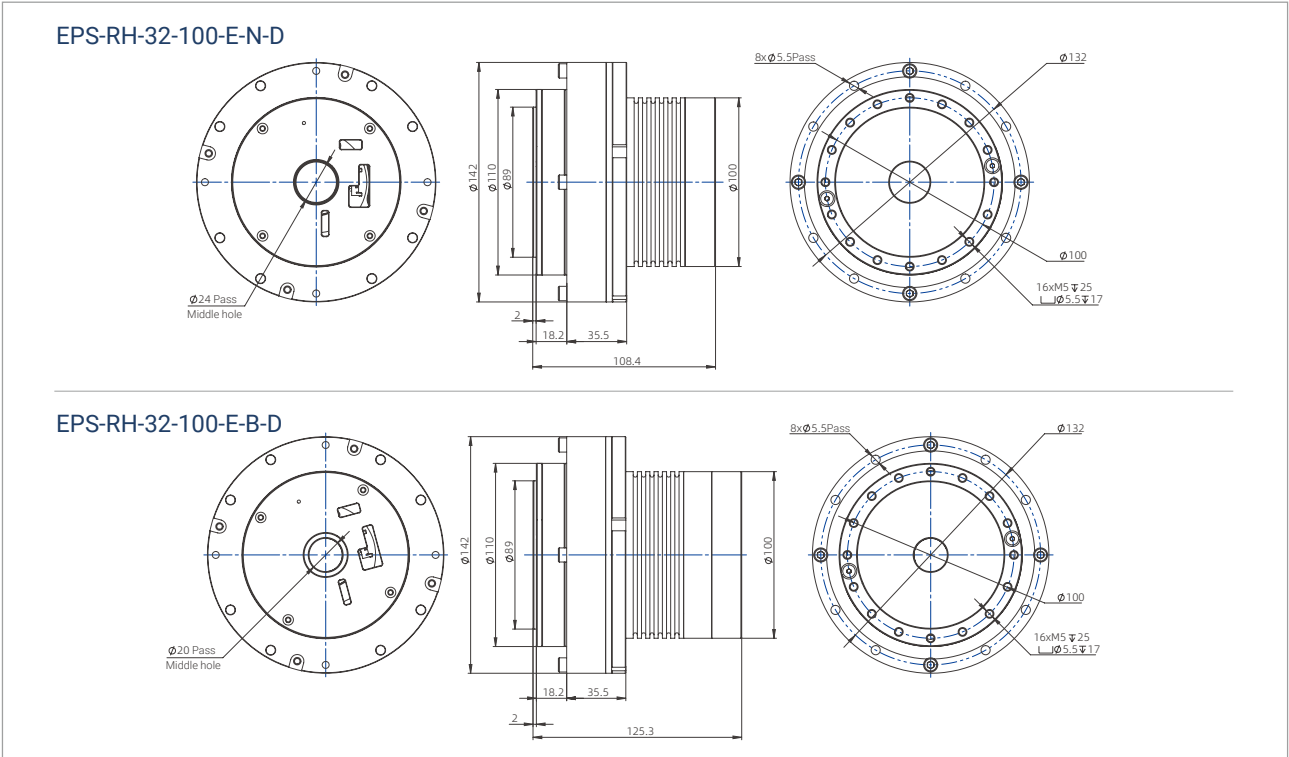
* 1. The standard model supports brake or without brake.

* 2. The standard model supports both CAN BUS & EtherCAT.

* 3. The standard model does not have waterproof function. For IP54, please contact sales before ordering.

* 4. 50:1 gear ratio is available, please contact sales to confirm the lead time before ordering.

Installation Drawing



Product Parameters

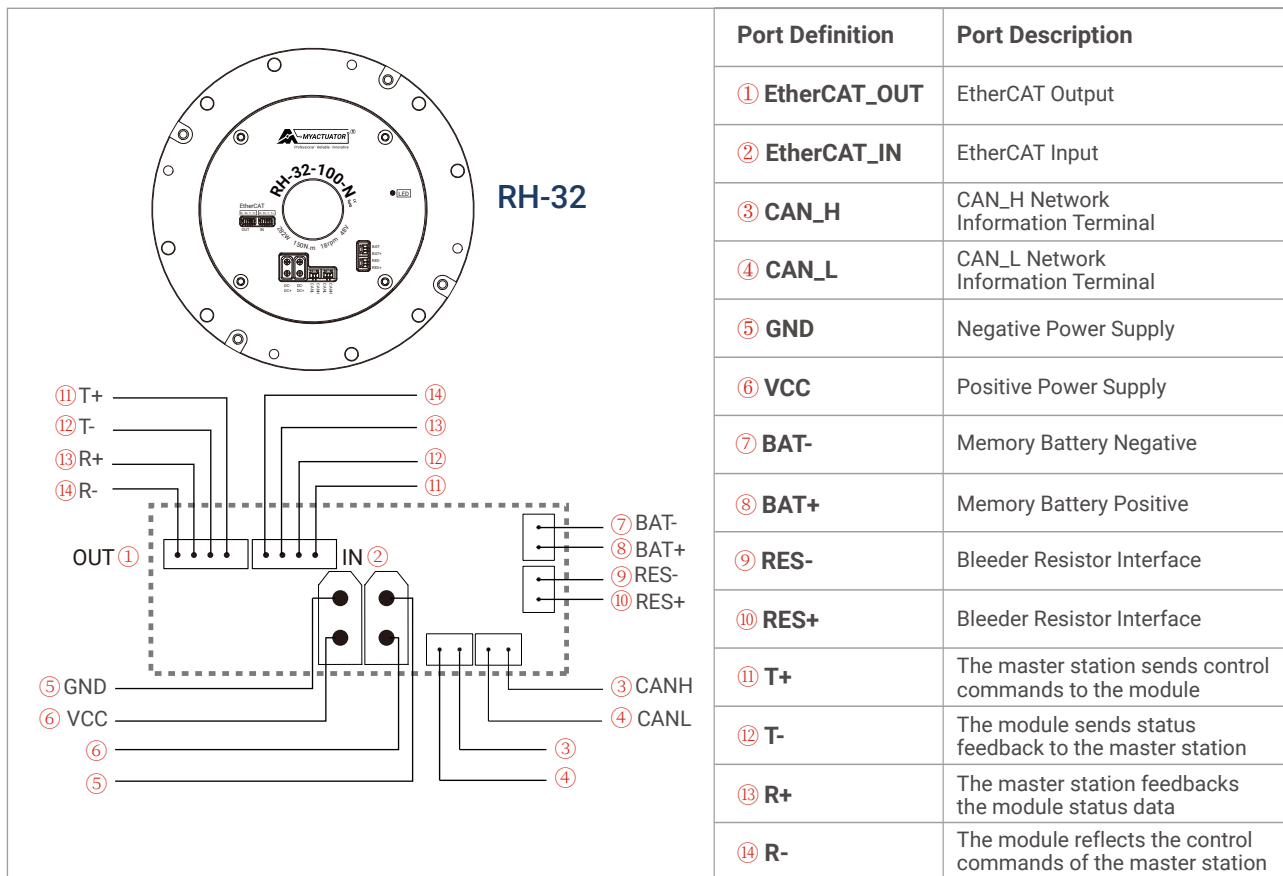
Parameters	Unit	RH-32
Gear ratio	—	50 100
Input Voltage	V	48
No Load Speed	RPM	40 20
No Load Current	A	2.6 2.8
Rated Speed	RPM	36 18
Rated Torque	N.m	75 150
Rated Power	W	282
Rated Current	A(rms)	21.8
Peak Torque	N.m	114.5 229
Peak Current	A(rms)	32.1
Motor Back-EMF Constant	Vdc/Krpm	26.7
Module Torque Constant	N.m/A	3.45 6.9
Motor Phase Resistance	Ω	0.08
Motor Phase Inductance	mH	0.18
Pole Pair	—	10
3 Phase Connection	—	Y
Backlash	Arcsec	< 40
Radial Load	Static Load	KN
	Dynamic Load	KN
Axial Load	Static Load	KN
	Dynamic Load	KN
Inertia	N	kg.m ²
	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
	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-32	195	24	10	24
	225	40	8	28
	270	49	5	33.5

RH-32 Interface Description



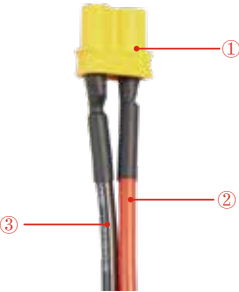
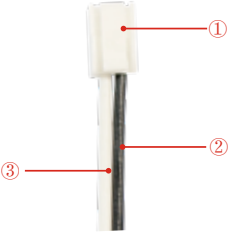

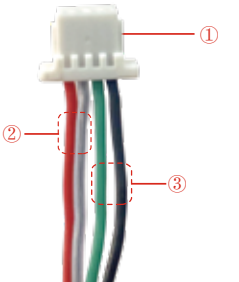

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