

H Series Hollow Direct Drive Actuator

Outer Rotor



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

Product Features



Hollow Design



Driver Integration



Low Speed Steady



High Precision

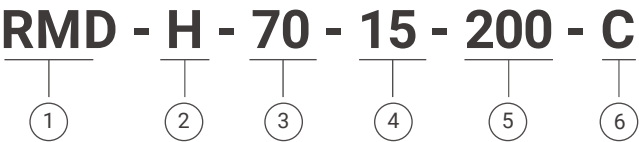


CAN BUS



Single Encoder

RMD-H Series Naming Conventions



- 1

RMD: Brand Name R-Reducer M-Motor D-Drive
- 2

H: H Stands For The Series Name: Integrated Hollow Direct Drive Actuator
- 3

70: 70 Represent Motor Model Number e.g: 30/40/50/70/90 etc
- 4

15: Stator stack height 15mm
- 5

200: Motor power 200W
- 6

C: Communication C: CAN BUS

For example

Model	RMD-H-90-15-400-C
Illustrate	RMD: Brand Name
	H: Hollow Direct Drive Actuator
	90: Motor Model Number
	15: Stator Stack Height
	400: Motor Power
	C: Communication C: CAN BUS

Series Name
RMD-H

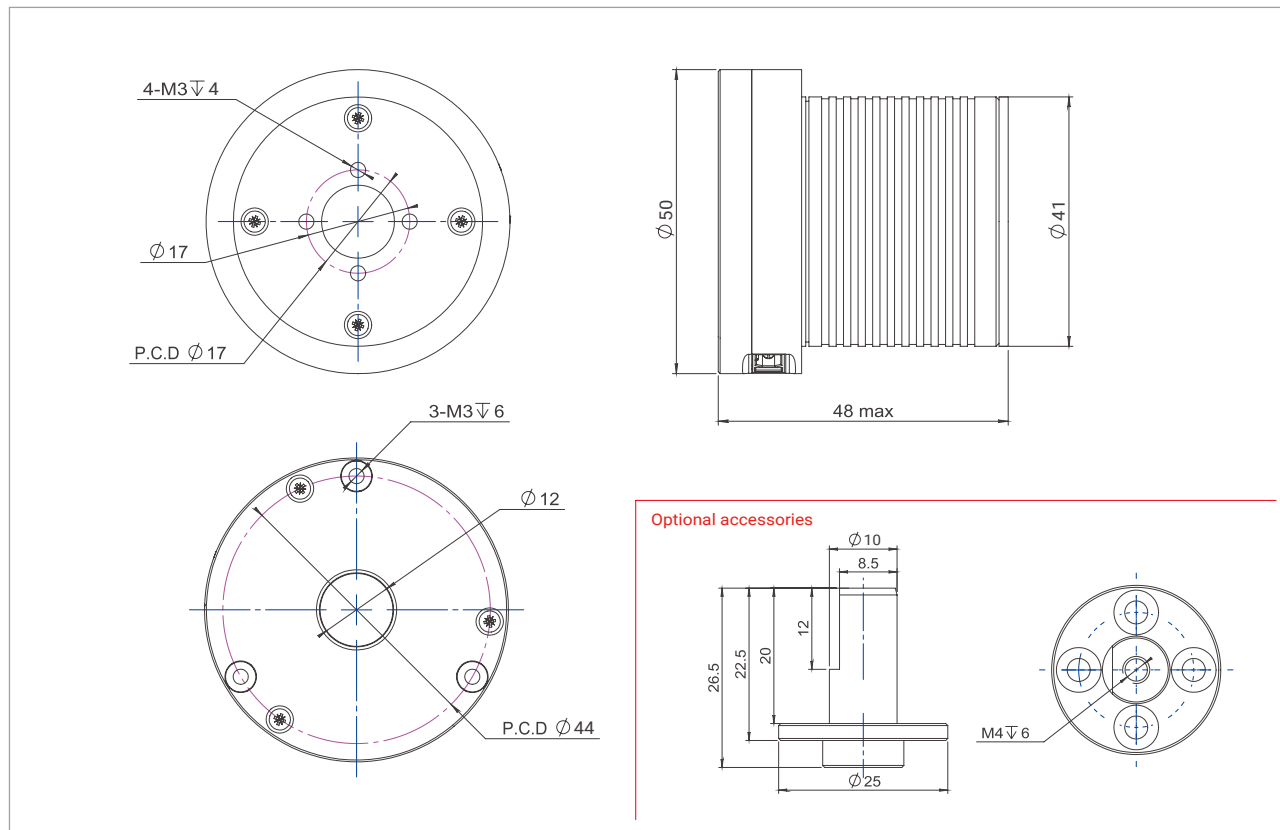
Motor Simplified Name
H-40-15



Single Encoder

Actuator Full Name	With Brake/Without Brake	Communication
RMD-H-40-15-50-C	N (without brake)	CAN BUS

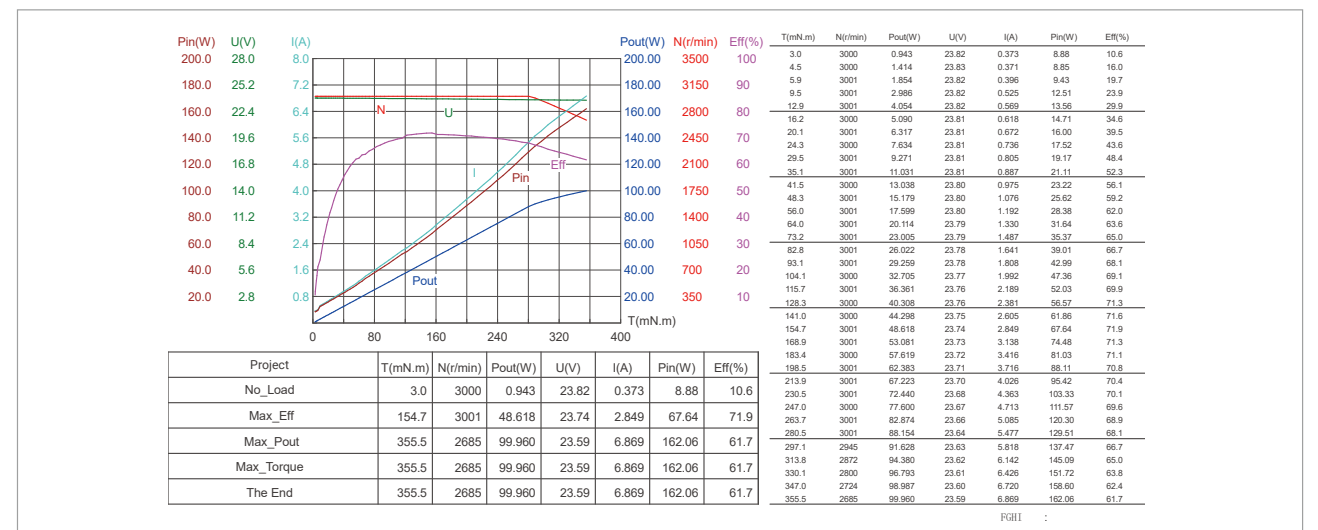
■ Installation Drawing



■ Product Parameters

Parameters	Unit	H-40-15
Input Voltage	V	24
No-Load speed	RPM	3700
No-Load Input Current	A	0.44
Rated Speed	RPM	3000
Rated Torque	N.m	0.15
Rated Output Power	W	47
Rated Phase Current	A	5.1
Peak Torque	N.m	0.3
Peak Phase Current	A	12.8
Efficiency	%	>64
Motor Back-EMF Constant	Vdc/Krpm	8
Module Torque Constant	N.m/A	0.03
Motor Phase Resistance	Ω	3.37
Motor Phase Inductance	mH	0.176
Pole Pair	—	13
Cogging Torque	mN.m	10
3 Phase Connection	—	Y
Max Axial Load	KN	0.35
Max Radial Load	KN	0.08
Inertia	Kg.cm²	0.29
Encoder Type	—	ABS-17bit
Repeat Position Accuracy	Degree	< 0.01
Communication	—	CAN BUS
Weight	Kg	0.2
Insulation Grade	—	F

■ Motor Characteristic Curve



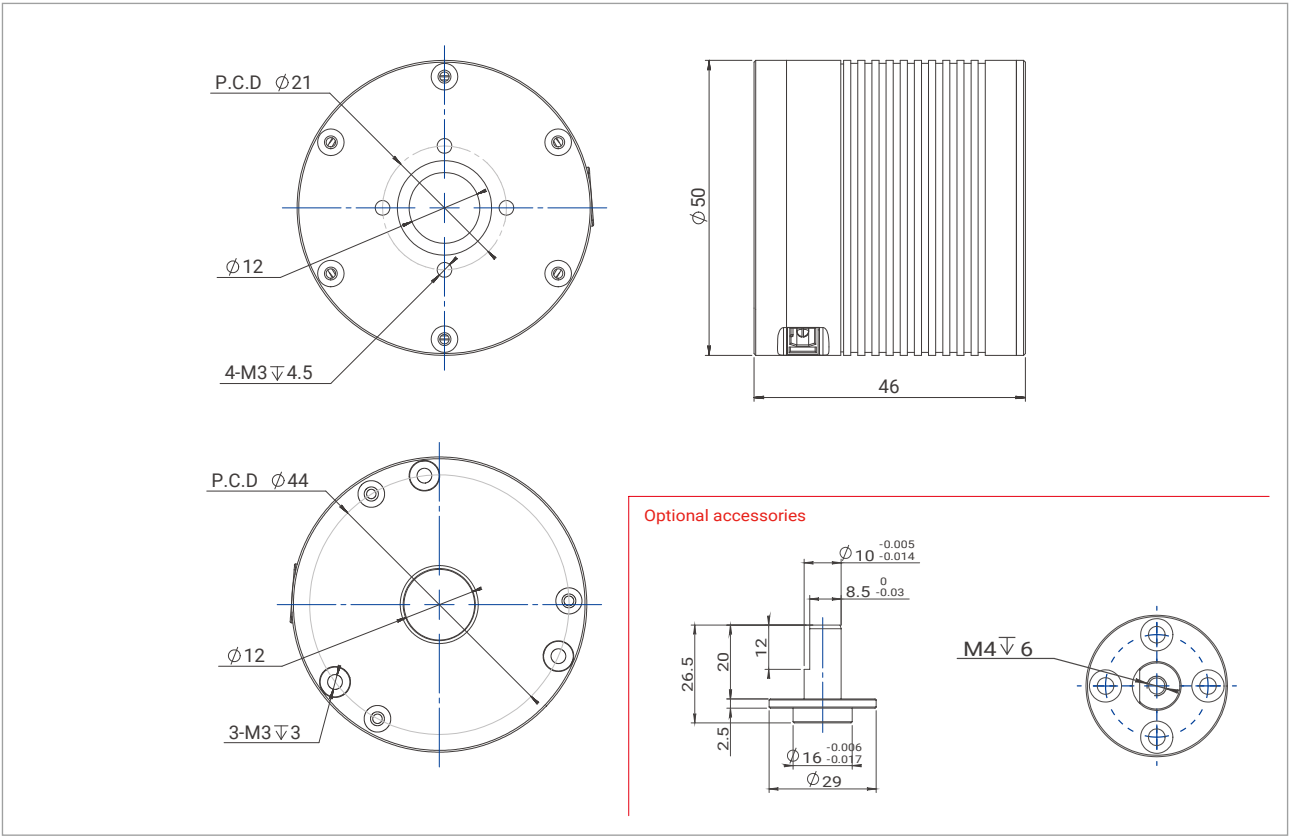
Series Name
RMD-H
Motor Simplified Name
H-50-15



Single Encoder

Actuator Full Name	With Brake/Without Brake	Communication
RMD-H-50-15-100-C	N (without brake)	CAN BUS

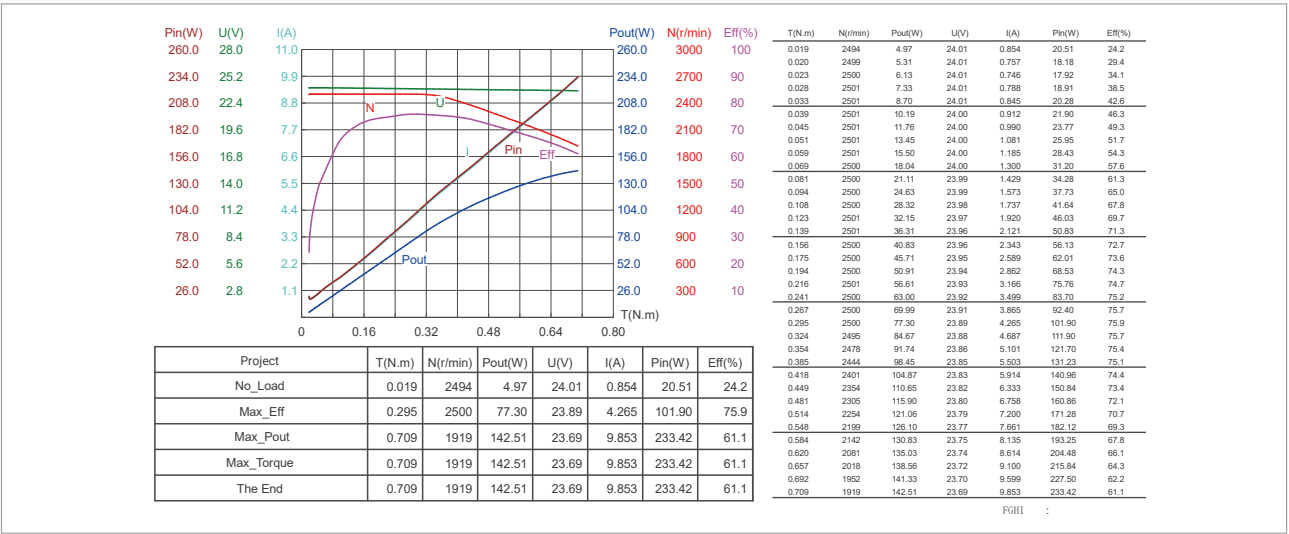
Installation Drawing



Product Parameters

Parameters	Unit	H-50-15
Input Voltage	V	24
No-Load speed	RPM	3200
No-Load Input Current	A	0.4
Rated Speed	RPM	2500
Rated Torque	N.m	0.35
Rated Output Power	W	91.6
Rated Phase Current	A	4.9
Peak Torque	N.m	0.9
Peak Phase Current	A	12.4
Efficiency	%	>83
Motor Back-EMF Constant	Vdc/Krpm	7.93
Module Torque Constant	N.m/A	0.07
Motor Phase Resistance	Ω	0.4
Motor Phase Inductance	mH	0.19
Pole Pair	—	13
Cogging Torque	mN.m	12
3 Phase Connection	—	Y
Max Axial Load	KN	0.489
Max Radial Load	KN	0.1
Inertia	Kg.cm ²	0.57
Encoder Type	—	ABS-17bit
Repeat Position Accuracy	Degree	< 0.01
Communication	—	CAN BUS
Weight	Kg	0.24
Insulation Grade	—	F

Motor Characteristic Curve



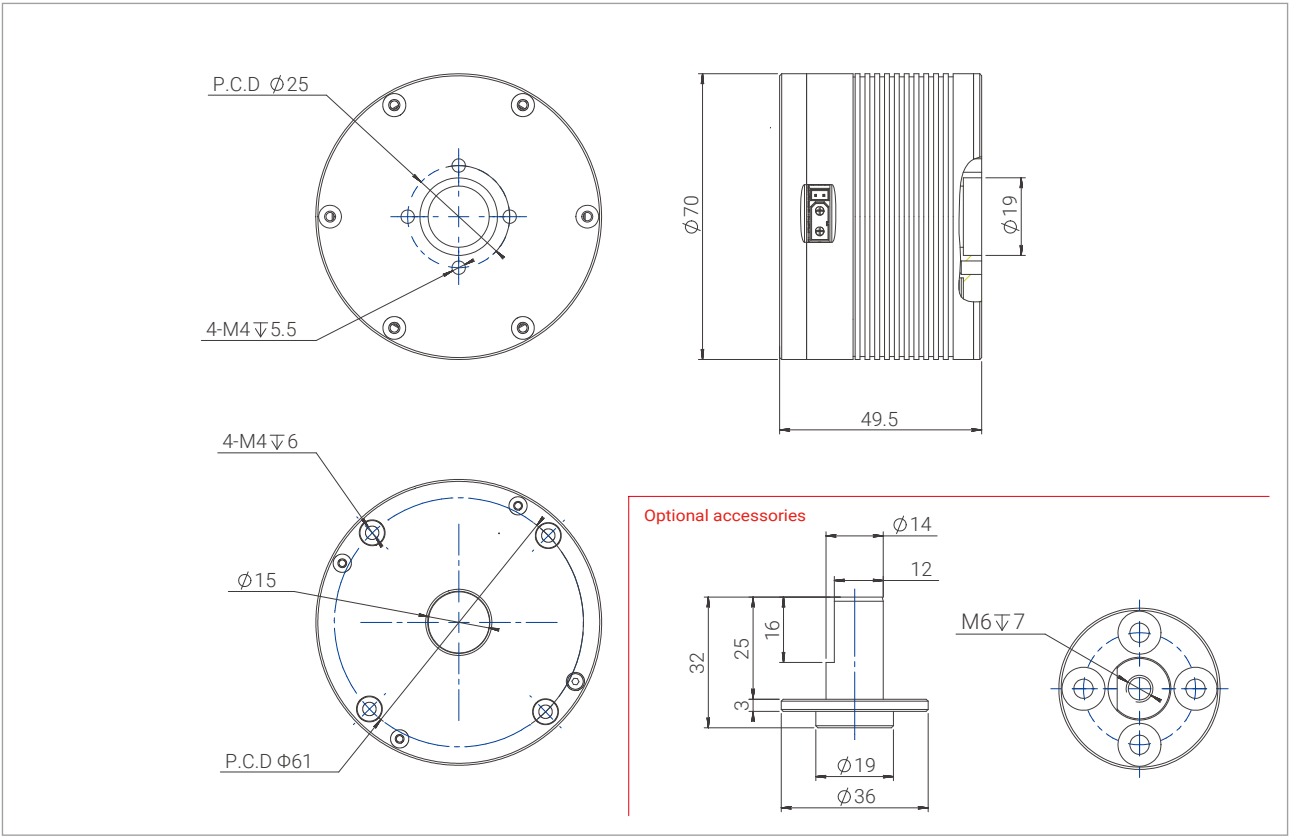
Series Name
RMD-H
Motor Simplified Name
H-70-15



Single Encoder

Actuator Full Name	With Brake/Without Brake	Communication
RMD-H-70-15-200-C	N (without brake)	CAN BUS

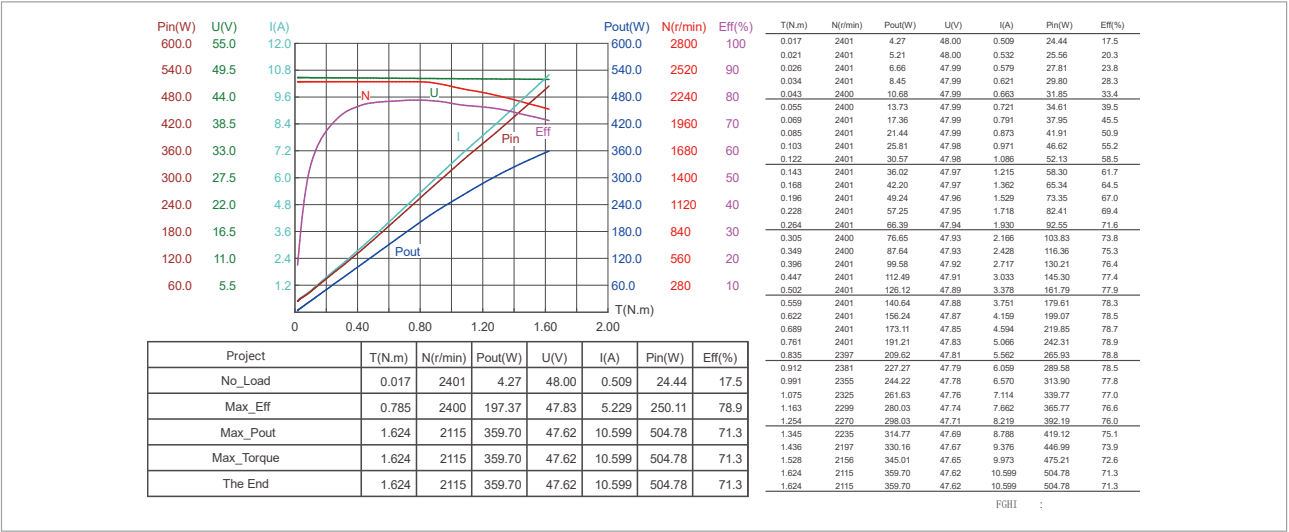
Installation Drawing



Product Parameters

Parameters	Unit	H-70-15
Input Voltage	V	48
No-Load speed	RPM	2800
No-Load Input Current	A	0.18
Rated Speed	RPM	2400
Rated Torque	N.m	0.8
Rated Output Power	W	200
Rated Phase Current	A	4.4
Peak Torque	N.m	2
Peak Phase Current	A	13.2
Efficiency	%	>84
Motor Back-EMF Constant	Vdc/Krpm	17
Module Torque Constant	N.m/A	0.18
Motor Phase Resistance	Ω	0.5
Motor Phase Inductance	mH	0.55
Pole Pair	—	13
Cogging Torque	mN.m	31
3 Phase Connection	—	Y
Max Axial Load	KN	1.87
Max Radial Load	KN	0.44
Inertia	Kg.cm ²	1.8
Encoder Type	—	ABS-17bit
Repeat Position Accuracy	Degree	< 0.01
Communication	—	CAN BUS
Weight	Kg	0.47
Insulation Grade	—	F

Motor Characteristic Curve



Series Name
RMD-H

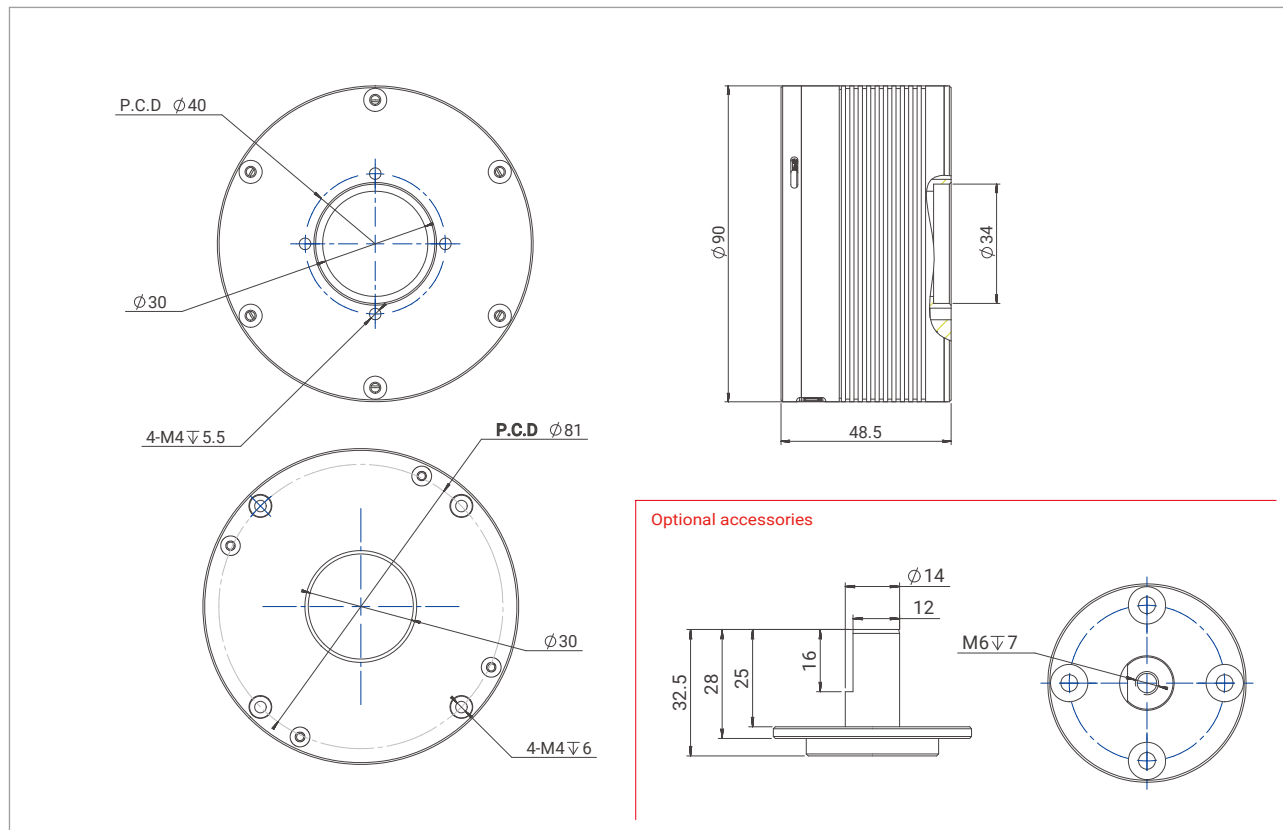
Motor Simplified Name
H-90-15



Single Encoder

Actuator Full Name	With Brake/Without Brake	Communication
RMD-H-90-15-400-C	N (without brake)	CAN BUS

■ Installation Drawing



■ Product Parameters

Parameters	Unit	H-90-15
Input Voltage	V	48
No-Load speed	RPM	2000
No-Load Input Current	A	0.35
Rated Speed	RPM	1600
Rated Torque	N.m	1.5
Rated Output Power	W	252
Rated Phase Current	A	6.6
Peak Torque	N.m	3.75
Peak Phase Current	A	19.8
Efficiency	%	>83
Motor Back-EMF Constant	Vdc/Krpm	21.1
Module Torque Constant	N.m/A	0.23
Motor Phase Resistance	Ω	0.35
Motor Phase Inductance	mH	0.28
Pole Pair	—	16
Cogging Torque	mN.m	64
3 Phase Connection	—	Y
Max Axial Load	KN	2.35
Max Radial Load	KN	0.77
Inertia	Kg.cm²	4.2
Encoder Type	—	ABS-17bit
Repeat Position Accuracy	Degree	< 0.01
Communication	—	CAN BUS
Weight	Kg	0.71
Insulation Grade	—	F

■ Motor Characteristic Curve

