

A4 Pro Series

Spiral Door



A4 Pro High-Speed Spiral Door Series Features

Multiple gear and motor configurations are available, offering torque from 50 Nm to 160 Nm and speeds between 100 rpm and 150 rpm. The integrated drive board within the control box allows for easy installation and maintenance. Up to three layers of protection, including an anti-drop mechanism; emergency hand chain/crank operation; automatic metal crank detection to prevent misoperation.

Certifications

Standards

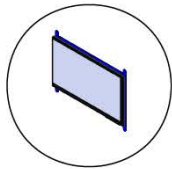
EN 12978:2003+A1:2009, EN 60204-1:2018,
EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019

Related to CE Directive(s)

2014/35/EU (Low Voltage)
2014/30/EU (Electromagnetic Compatibility)



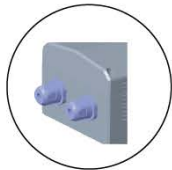
A4 Pro Spiral Door Series Details



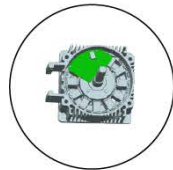
LCD Screen



Servo motor with extended shaft



Waterproof Cable Glands



Absolute Encoder

A4 Pro Spiral Door Series Servo Motor Specifications

						
Model	PHD-A4-M-50.150	PHD-A4-M-65.120	PHD-A4-M-80.100	PHD-A4-M-100.150	PHD-A4-M-130.120	PHD-A4-M-160.100
Working System	S3			S3		
Power (W)	750W			1500W		
Power Supply (v)	1N- 220V±10%			1N- 220V±10%		
Frequency (Hz)	50/60			50/60		
Input Current (A)	5.5	5.5	7	7	7	7
Output Torque (N.m)	50	65	80	100	130	160
Output Speed Range (rpm)	15~150	12~120	10~100	15~150	12~120	10~100
Door Opening Speed (m/s)	0.8-1.3	0.6-1.0	0.5-0.8	0.9-1.5	0.7-1.2	0.6-1.0
Door Weight (kg) ¹⁾	50-80	65-104	80-128	81-140	106-182	130-225
Opening And Closing Speed	Adjustable			Adjustabl		
Soft Start And Stop	✓			✓		
Auto Reverse into Obstacle	✓			✓		
Motor IP Level	IP65			IP65		
Working Environment (°C)	-20~+50 ²⁾			-20~+50 ²⁾		
Hollow Shaft (mm)	25			25		
Incremental Encoder	✓			✓		
Absolute Encoder (Built-In)	✓			✓		
Limit Stop Range	100	80	60	100	80	60
Cable Length (m)	5			7		
Hand Crank	✓			✓		
Mechanical Brake	✓			✓		
Order Number	PHD-A4-M-50.150-RC	PHD-A4-M-65.120-RC	PHD-A4-M-80.100-RC	PHD-A4-M-100.150-RC	PHD-A4-M-130.120-RC	PHD-A4-M-160.100-RC

Values marked in color indicate customizable options.

- 1) Load capacity without Springs.
- 2) Rated power operation within the temperature range of -10°C to +40°C, with derated operation between -20°C to -10°C and +40°C to +50°C.
- 3) All the weight data is based on 100mm-197mm rollers

A4 Pro Series, R4 Series General Control Panel Specifications



Compatible Motor Models	PDH-A4-M, PHD-R4-M
Dimensions (mm)	250*450*185
Display	4 Lines Text Display
Input Voltage (V)	1N~200~240
Input Current (A)	6.5/13 ¹⁾
Standby Power Consumption (W)	≤9W
Open/Close Speed Settings	✓
Open/Close Slowdown Zone	✓
Partial Opening Height (%)	✓
Error Report	✓
Fault Memory	✓
Maintenance Reminder	✓
NC/NO Switching	✓
Anti-Freeze Shake Function	✓
Torque Adjustment	✓
Automatic Test	✓
Miniature Circuit Breaker	✓
RS485	✓
Safety Signal 1 Input	✓
Safety Signal 2 Input	✓
Jog/Manual/Automatic Switching	✓
Interlock	✓
Programmable Relay Output	2 Groups(can be expanded to 4 groups)
DC24V Output	0.4A≈10W
Order Number	PHD-A4-C-50

Note

- 1) 0.75kW motor input current 6.5A; 1.5kW motor input current 13A

A4 Pro Series Standard Accessories



Keys



Emergency Stop



T-Wrench

A4 Pro, R4 General Control Panel Accessories Options



SUS304 Shell



IP65 Shell



RS485 Module



Remote Control

A4 Pro Motor Accessories Options



Anti-Drop Mechanism



Hand Chain



Hand Crank



Hand Crank Switch

Note

- A4 Pro Spiral Door motors only have "Hand Crank" as Accessory Option.