

# A2 Pro Series

HIGH SPEED DOOR



## A2 Pro Series Features

Multiple gear and motor combinations are available, providing torque options from 30 Nm to 125 Nm and speeds ranging from 85 rpm to 200 rpm.

The integrated drive-and-control design ensures strong resistance to system interference.

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

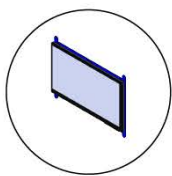
EN 12978:2003+A1:2009, EN 60204-1:2018,  
EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019

### Related to CE Directive(s)

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



## A2 Pro Series Details



LCD Screen



Absolute Encoder



Anti-Drop Mechanism



Servo Motor with Extended Shaft



Hand Chain





Hand Crank



Hand Crank Switch

## A2 Pro Series Servo Motor Specifications

|                             |  |                    |  |                    |                     |                    |
|-----------------------------|---|--------------------|---|--------------------|---------------------|--------------------|
| Model                       | PHD-A2-M-30.200   | PHD-A2-M-50.120    | PHD-A2-M-50.250   | PHD-A2-M-80.160    | PHD-A2-M-100.130    | PHD-A2-M-125.85    |
| 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)           | 6.5   | 6.5                | 13  | 13                 | 13                  | 13                 |
| Output Torque (N.m)         | 30  | 50                 | 50  | 80                 | 100                 | 125                |
| Output Speed Range (rpm)    | 20~200  | 12~120             | 25~250  | 16~160             | 13~130              | 9~85               |
| Door Opening Speed (m/s)    | 1.0-1.7   | 0.6-1.0            | 1.5-2.6   | 1.0-1.6            | 0.8-1.3             | 0.5-0.9            |
| Door Weight (kg)            | 24~48   | 41~80              | 41~70   | 65~112             | 81~140              | 102~175            |
| Opening And Closing Speed   | Adjustable  |                    | Adjustabl   |                    |                     |                    |
| Soft Start And Stop         | ✓   |                    | ✓   |                    |                     |                    |
| Motor IP Level              | IP65  |                    | IP65  |                    |                     |                    |
| Working Environment (°C)    | -20~+50 <sup>1)</sup>   |                    | -20~+50 <sup>1)</sup>   |                    |                     |                    |
| Hollow Shaft (mm)           | 25/25.4   |                    | 25/25.4/30/31.75  |                    |                     |                    |
| Incremental Encoder         | ✓   |                    | ✓   |                    |                     |                    |
| Absolute Encoder (Built-In) | ✓   |                    | ✓   |                    |                     |                    |
| Limit Stop Range            | 120   | 80                 | 150   | 100                | 80                  | 50                 |
| Cable Length (m)            | 4   |                    | 7   |                    |                     |                    |
| Hand Crank                  | ✓   |                    | ✓   |                    |                     |                    |
| Mechanical Brake            | ✓   |                    | ✓   |                    |                     |                    |
| Order Number                | PHD-A2-M-30.200-RV  | PHD-A2-M-50.120-RV | PHD-A2-M-50.250-RV  | PHD-A2-M-80.160-RV | PHD-A2-M-100.130-RV | PHD-A2-M-125.85-RV |

### Values marked in color indicate customizable options.

- 1) 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.
- 2) All the weight and speed data is based on 100mm-197mm rollers.

## A2 Pro Series Control Panel Specifications



|                                |                                       |
|--------------------------------|---------------------------------------|
| Compatible Motor Models        | PHD-A2-M                              |
| Dimensions (mm)                | 215*373*152mm                         |
| Display                        | 4 Lines Text Display                  |
| Input Voltage (V)              | 1N~200~240                            |
| Input Current (A)              | 6.5/13 <sup>1)</sup>                  |
| 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      | N/A                                   |
| 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-A2-C-50                           |

## Note

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

## A2 Pro Standard Accessories



Emergency Stop



T-Wrench

## A2 Pro Control Panel Accessories Options



SUS304 Shell



RS485 Module

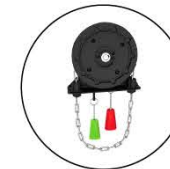


Remote Control

## A2 Pro Motor Accessories Options



Anti-drop Mechanism



Hand Chain



Hand Crank



Hand crank switch