



BDHDE AC Servo System

Reliable and durable | Accurate positioning

Plug-and-Play

- Supports MTP (Multimedia Transport Protocol) electronic nameplate function, plug-and-play.
- Supports Inertia identification, load free regulation, gain list, etc.
- With PDFF control loops and adaptive vibration suppression algorithms, making tuning easy and reliable.
- Absolute encoder, which can eliminate the need for spacing and home position.

Wireless Commissioning

- Support wireless commissioning, monitoring, debugging, upgrading

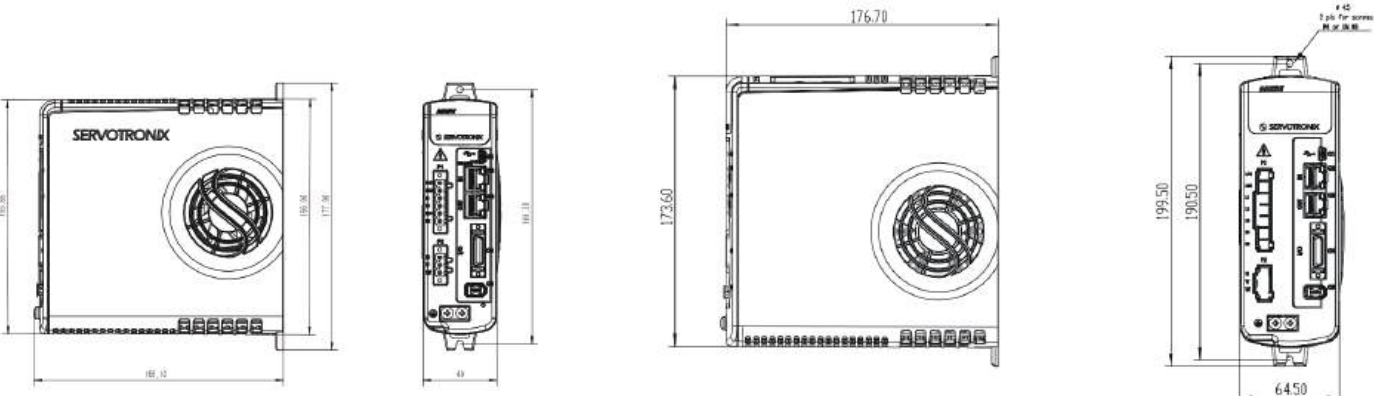
Safety and Security

- Complies with CE certification requirements and satisfies the safety requirements of relevant equipment in global markets
- Large airflow heat dissipation design +UV coating to resist high temperature, high humidity, dust and other harsh environments.
- Supports STO Safe Torque Off (STO) function and meet the safety control requirements of Electronics & PV & Lithium battery industries.
- Supports runaway protection function and ensure safety of on-site application.

Powerful Performance and Accurate Positioning

- Current loop update rate of 62.5μs reduces response latency and allows for optimal position adjustment time of 1ms.
- Supports up to 23-bit optical encoders with a control resolution of 8388608 pulses/turn.
- EtherCAT bus control supports synchronization of 100 axes in 1ms.
- Matching with PH2 series servo motor, speed can reach up to 6000rpm, suitable for LED, SMT, die-cutting machine, winding machine and other high rigidity applications.
- Matching with PH2-R series servo motor with speed up to 8000rpm, suitable for high reliability applications such as SCARA, Delta and small 6-axis robots.

Drive Dimension and Specifications



BDHDE-003/BDHDE-006 Size (mm)

BDHDE-010/BDHDE-013 Size (mm)

Model	Output Current	Communication Interface	Main Features
BDHDE-0032AEC	Continuous output current (A rms)2.8A Peak output current (Arms)8.4A	EEtherCAT/ Pulse /USB/RS232	EtherCAT/ Pulse control /USB/RS232 4-way trap filter (50~4000kHz) Vibration suppression (≤ 100kHz, end jitter can be suppressed) Disturbance suppression (friction, over-quadrant bump suppression) Two high-speed D/I STO Safe Torque Off Command pulse output
BDHDE-0062AEC	Continuous output current (A rms)6A Peak output current (Arms)18A	EtherCAT/ Pulse /USB/RS232	
BDHDE-0102AEC	Continuous output current (A rms)10A Peak output current (Arms)30A	EtherCAT/ Pulse /USB/RS232	
BDHDE-0132AEC	Continuous output current (A rms)13A Peak output current (Arms)28A	EtherCAT/ Pulse /USB/RS232	

Naming Rules for BDHDE Series Servo Drives

BDHDE - 003 2A EB - 000

① ② ③ ④ ⑤

① BDHDE Servo Drives

② Rating

	AC 220CV	
	Continuous	Maximum
	[A rms]	[A rms]
003	2.8	8.4
006	6	18
010	10	30
013	13	28

③ Input power

2A	Single / three-phase AC 220V, -10%~+10%, 50/60Hz
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⑤ Special Options

Blank	Standard
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④ Communication Interface

EB	EtherCAT,USB
AP	Position pulse ,RS485,USB
EC	EtherCAT,USB, Position pulse, RS232

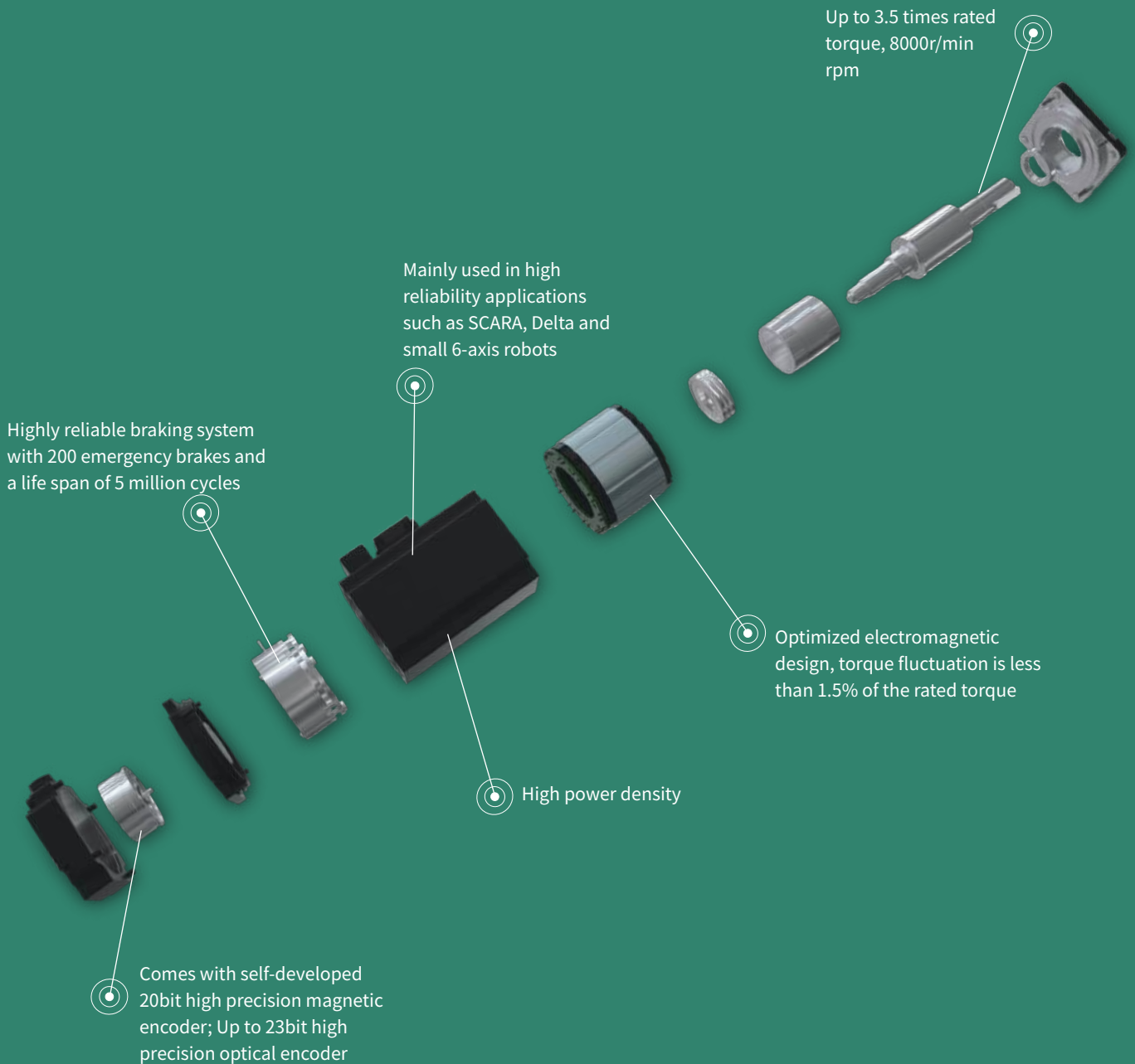
PH2-R Series Servo Motors

Outstanding performance, stable and reliable

Power range: 0.05~0.75kW

Flange Size: : □ 40、□ 60、□ 80

(Exploded view shows the model: PH2-R06B23035M41D)



// Naming rules for PRDH2 servo motors

PH2 - M 04 A 2 30 3 5 S3 0 D C*-**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① PRHD2 Servo Motors

② Inertia

L	Low-inertia
M	Mid-inertia
R	Customized inertia for robots

③ Flange size

04	40 mm
06	60 mm
08	80 mm
10	100 mm
13	130 mm

④ Winding Type

Please refer to catalog for power selection

A	A Type
B	B Type
C	C Type

⑤ Voltage

2	230 VAC
4	380VAC

⑥ Rated speed

15	1500 rpm
30	3000 rpm

⑦ Shaft & Oil Seal

2	Keyed
3	Keyed & Oil seal

⑧ IP Rating

5	IP65
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⑨ Feedback Type

S3	sensARAbsoluteSingle-turn Encoder 17 bit
M3	sensAR Absolute Multi-turn Encoder 17 bit
T1	Tamagawa Absolute Single-turn Encoder 17bit
T4	Tamagawa Absolute Multi-turn Encoder 23bit
S4	sensAR Absolute Single-turn Encoder 20bit short version
M4	sensAR Absolute Multi-turn Encoder 20bit short version

⑩ Brake

0	No Brake
1	With Brake

⑪ Connector

D	Amp Connector
A	MIL Connector

⑫ Customized code

C	*-** Customized code
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Note: The naming rules are only a description of the meaning of the symbols and do not mean that all combinations of symbols are present. For selection questions, please consult the sales team of Servotronix.



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For more product information, Please follow the official account of Servotronix. Click on the bottom menu bar “Product Center”, and then “Product Information”