



Highly Dynamic Servo Motors

Featuring the latest engineering and manufacturing technology, PRO2 servo motors feature an innovative and patented 20 bit absolute encoder. A careful selection of components, uncompromised quality, international certifications, and a wide range of power ratings assure that these servo motors are optimal for dynamic, reliable and efficient automation.



Optimal servo motor solution for high performance motion applications

PRO2 servo motors combine excellent dynamics and torque accuracy with a compact design and high power density.

- Rated output power range of 50 W to 7.5 kW
- Rated output torque of 0.16 Nm to 45 Nm
- Torque range of up to 45 Nm (rated) and 120 Nm (peak)
- Rated speed of up to 3000 rpm
- Maximum speed of up to 5000 rpm

Broad range of motor options

- 6 frame sizes
- Standard feedback options include the sensAR 18 and 20 bit single- or multi-turn absolute encoders, a multi-turn absolute encoder (HIPERFACE®) with 128 periods (sine/cosine) per revolution, and an incremental encoder.
- Standard and high inertia options
- Up to IP65 protection class
- Scratch-resistant motor body
- Optional holding brake
- M23, cable and MIL connector options
- UL 1004, CSA approved
- Extended ambient air temperature: -20°C...+40°C

Key benefits

- Excellent dynamics and high torque accuracy
- Innovative and robust 20 bit absolute magnetic encoder
- High overload capacity
- High torque-to-inertia ratio
- Low noise and vibration-free operation
- Low cogging
- Compact design with high power density
- Variety of connector options
- Selection of feedback, shaft, flange, and brake options
- Up to IP65 protection class
- Maintenance-free
- CE and UL compliance

Matched to Servotronics CDHD and DDHD servo drives for optimal performance



Current range: 1.5-30 cont. A rms

Rating

Model	Frame Size (mm)	Voltage Options (VAC)	Power Range (W)	Rated Torque (Nm)	Peak Torque (Nm)	Max Speed (rpm)	Rotor Inertia (kg cm ²)
PR2-04	40	230, 400	50-100	0.16-0.32	0.48-0.96	5000	0.05-0.08
PR2-06	60	230, 400	200-400	0.64-1.27	1.92-3.81	5000	0.16-0.27
PR2-08	80	230, 400	400-750	1.27-2.39	3.81-7.16	5000	0.67-1.54
PR2-10	100	230, 400	1000-2000	3.18-6.37	9.54-19.11	5000	2.40-4.28
PR2-13	130	230, 400	500-2000	2.39-9.55	7.16-28.65	2000-3000	6.94-13.50
PR2-18	180	230, 400	2000-7500	9.55-44.6	28.65-119.36	3000	26.5-103.34

P2 - 04 A 2 30 0 5 S3 0 D 000

PRO2 Series
Synchronous Servo Motors

Frame Size	
04	40 mm
06	60 mm
08	80 mm
10	100 mm
13	130 mm
18	180 mm

Length	
A	Shortest
B	
C	
D	
E	
F	
G	
H	Longest
Relative sizes, to differentiate motor lengths within each frame size. Refer to motor datasheet for available motor lengths.	

AC Bus Voltage	
2	230 VAC
4	400 VAC

Rated Speed	
10	1000 rpm
15	1500 rpm
20	2000 rpm
30	3000 rpm
According to motor datasheet	

Shaft	
0	Smooth shaft
1	Smooth shaft and oil seal
2	Shaft with key
3	Shaft with key and oil seal
4 *	High inertia Smooth shaft
5 *	High inertia Smooth shaft and oil seal
6 *	High inertia Shaft with key
7 *	High inertia Shaft with key and oil seal
* Only available with P2-08B	

IP Rating of Motor Housing (Without Shaft)	
5	IP 65 (IP65 for shaft requires oil seal)

Connector	
D	300 mm cable with AMP connectors. Frame size 04 comes only with connector type D. Frame sizes 06 and 08 are available with connector type D.
F *	M23 (turntable) connectors. Available on all frame sizes except size 04.
A	MIL connectors. Available only on frame sizes 10, 13 and 18.
* Upcoming	

Brake	
0	No brake
1	With brake

Feedback	
S3	sensAR Single-turn absolute encoder 20 bit
M3 *	sensAR Multi-turn absolute encoder 20 bit
E1 *	Incremental encoder 2500 PPR
A1	SKM36 HIPERFACE multi-turn absolute encoder 128 sine/cosine
* Upcoming	

