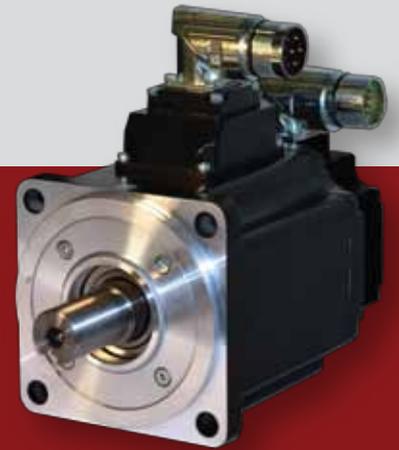


# PRO2

## 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 <sup>2</sup> )
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

Future option

