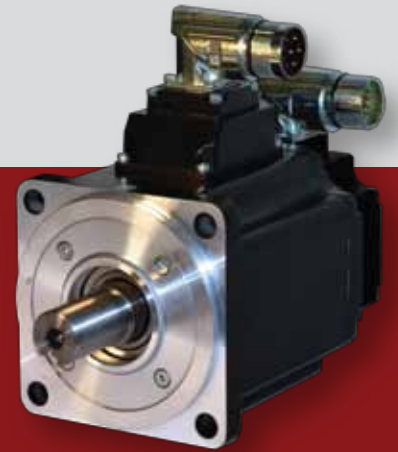


PRO2

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 6000 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



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 | 6000 | 0.05-0.08 |
| PR2-06 | 60 | 230, 400 | 200-400 | 0.64-1.27 | 1.92-3.81 | 6000 | 0.16-0.27 |
| PR2-08 | 80 | 230, 400 | 400-750 | 1.27-2.39 | 3.81-7.16 | 6000 | 0.67-1.54 |
| PR2-10 | 100 | 230, 400 | 1000-2000 | 3.18-6.37 | 9.54-19.11 | 6000 | 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 |

*Upcoming

Ordering Information

| 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 |
| * Available only with P2-08B, P2-13C, P2-18A | |
| IP Rating of Motor Housing (Without Shaft) | |
| 5 | IP 65 (IP65 for shaft requires oil seal) |
| 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 |
| Brake | |
| 0 | No brake |
| 1 | With brake |
| Connector | |
| 300 mm cable with AMP connectors. | |
| D | Frame size 04 available only with connector type D. Frame sizes 06 and 08 are available with connector type D. |
| F | M23 (turntable) connectors. Available P2-06, P2-08, P2-10, P2-13, P2-18A, P2-18B, P2-18C, P2-18D |
| A | MIL connectors. Available only on frame sizes 10, 13 and 18. |
| Future option | |

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