



Synchronous Servo Motors

Highly dynamic servo motors

With a wide range of torque ratings and motor options, PRO servo motors are particularly suitable for highly dynamic applications with strict requirements for high accuracy and stability.



Optimal servo motor solution for high performance motion applications

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

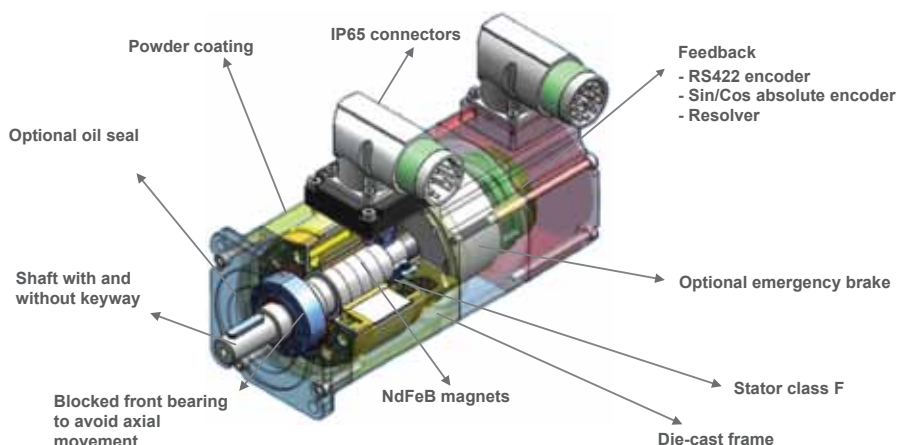
- Rated output power range of 100 W to 8.3 kW
- Rated output torque of 0.3 Nm to 40 Nm
- Torque range of up to 40 Nm (rated) and 130 Nm (peak)
- Rated speed of up to 3000 rpm
- Maximum speed of up to 5000 rpm

Broad range of motor options

- 7 frame sizes
- Winding options for 110, 220 and 400 VAC
- Standard feedback options include resolver, 2000LPR RS422 encoder, and absolute multiturn encoder (Hiperface) with 128 sine/cosine per revolution
- Standard and high inertia options (motor sizes 115, 142, 180)
- Temperature protection by KTY84 (except PR-40)
- Up to IP67 protection class
- Scratch-resistant motor body
- Optional holding brake; zero backlash
- 90° round turnable connectors, IP67 (except PR-40)
- Insulation system UL/CSA, Class F (155°C)

Customization options

- Shaft and flange modifications
- Other non-standard feedback devices
- Various connectors
- Optimized motor winding
- Extended temperature range rating
- Special motor housing (such as stainless steel)



Key benefits

- Excellent dynamics and high torque accuracy
- High overload capacity
- Low noise and vibration-free operation
- Low cogging
- Compact design with high power density
- Large selection of feedback, shaft, flange, and brake options
- Up to IP67 protection class
- Maintenance-free
- CE and UL compliance

Matched to Servotronic CDHD servo drives for optimal performance



Current range: 1.5-30 cont. A rms

Rating and dimensions

Model	Frame Size (mm)	Voltage Options (VAC)	Power Range (W)	Rated Torque (Nm)	Peak Torque (Nm)	Max Speed (rpm)
PR-40	42	110, 230	100	0.32	0.96	5000
PR-60	60	110, 230, 400	200-370	0.64-1.18	1.95-3.90	3900-5000
PR-80	80	110, 230, 400	480-1068	1.53-3.40	4.50-12.00	3750-5000
PR-100	100	230, 400	820-1570	2.61-5.00	11.00-33.00	3900-5000
PR-115	115	110, 230, 400	840-2300	2.67-7.32	9.00-33.00	2200-5000
PR-142	142	110, 230, 400	2700-5000	8.60-19.99	31.00-65.00	2150-4800
PR-180	180	400	4700-8380	15.00-40.00	63.00-130.00	2200-3000

Ordering information

