



## 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.

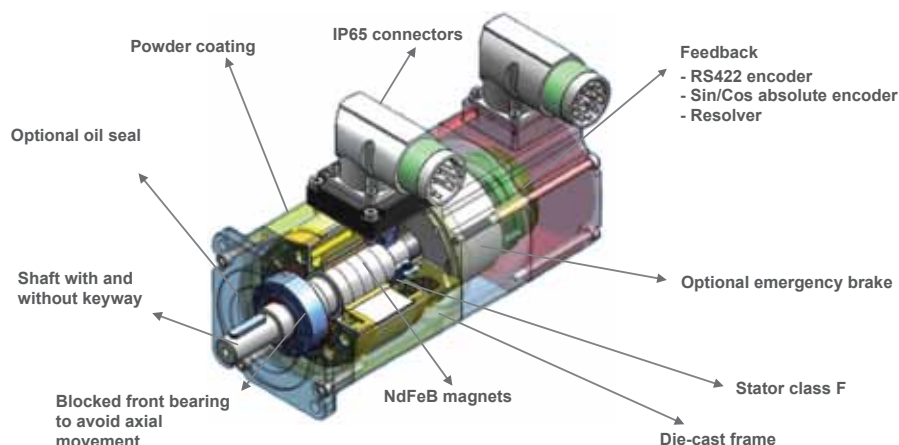
- Rated output power range of 100 W to 8.3 kW
- Rated output torque of 0.3 Nm to 40 Nm
- Torque range of up to 40 Nm (rated) and 130 Nm (peak)
- Rated speed of up to 3000 rpm
- Maximum speed of up to 5000 rpm

### 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 IP65 protection class
- Scratch-resistant motor body
- Optional holding brake; zero backlash
- 90° round turnable connectors, IP65 (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 IP65 protection class
- Maintenance-free
- CE and UL compliance

### Matched to Servotronics CDHD servo drives for optimal performance

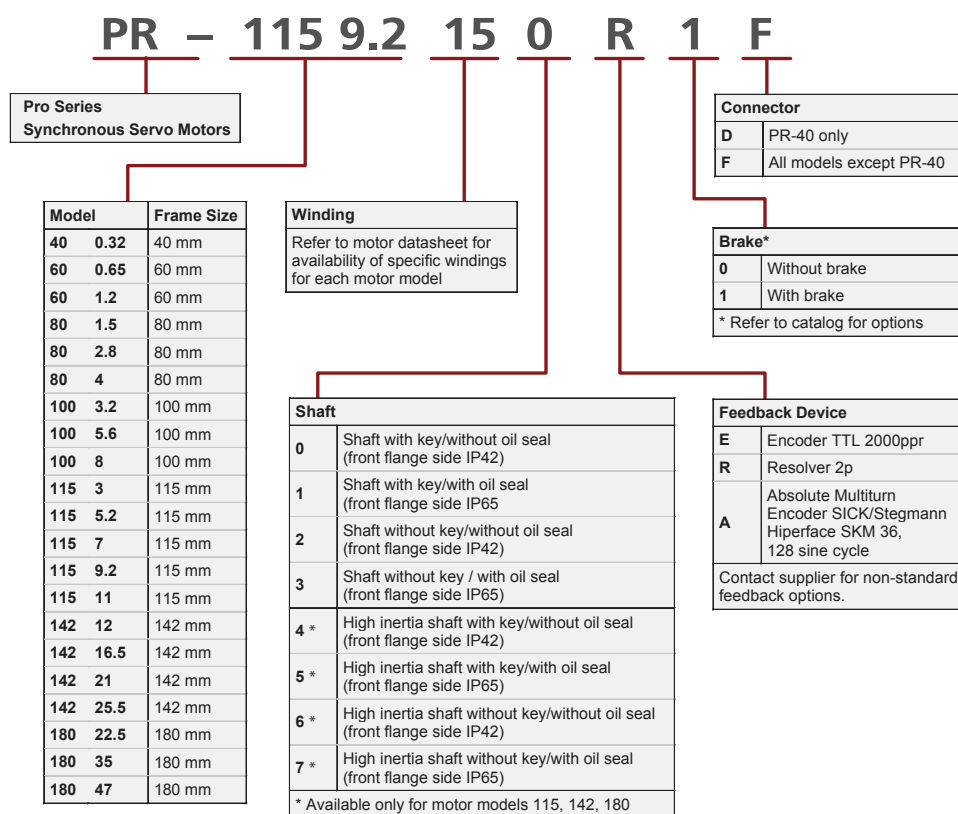


Current range: 1.5-30 cont. A rms

## 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> )
PR-40	42	110, 230	100	0.32	0.96	5000	0.05
PR-60	60	110, 230, 400	200-370	0.64-1.18	1.95-3.90	3900-5000	0.13-0.24
PR-80	80	110, 230, 400	480-1068	1.53-3.40	4.50-12.00	3750-5000	0.64-1.58
PR-100	100	230, 400	820-1570	2.61-5.00	11.00-33.00	3900-5000	1.55-4.10
PR-115	115	110, 230, 400	840-2300	2.67-7.32	9.00-33.00	2200-5000	4.70-20.80
PR-142	142	110, 230, 400	2700-5000	8.60-19.99	31.00-65.00	2150-4800	23.00-68.90
PR-180	180	400	4700-8380	15.00-40.00	63.00-130.00	2200-3000	69.50-186.70

## Ordering information



DOC-PRO-FLR-EN V3

