

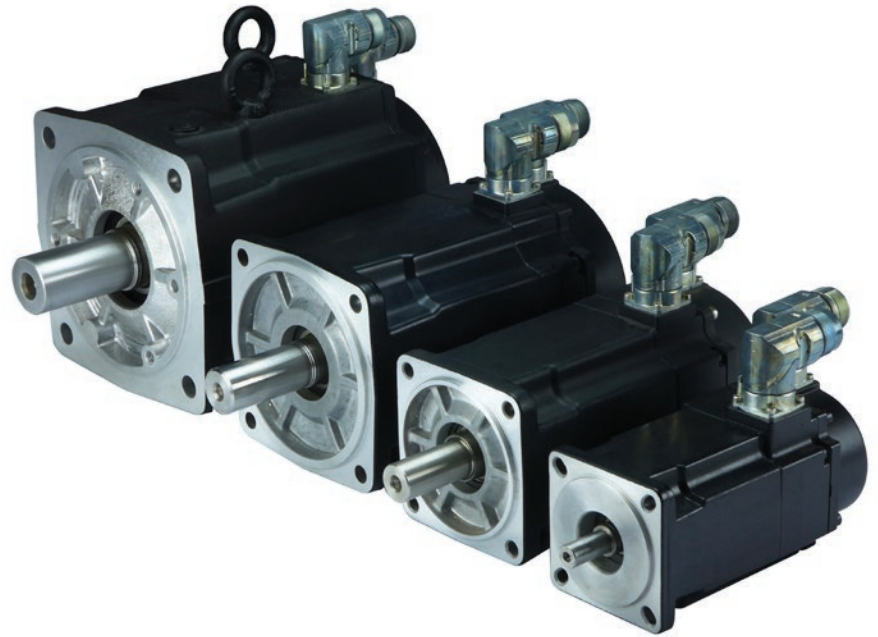
# EY Series

## Non-Sparking Servo Motors



## Customer Value Proposition

EY series is a range of permanent magnet servo motors certified for use in explosive atmospheres for gas or dust in Zone 2. The range provides a compact and economical solution in environments where gas or dust is unlikely to be present. EY servomotors are characterized by excellent motion quality, superb acceleration and deceleration capabilities, and high torque output from 2 to 41 Nm over a wide speed range up to 6800 rpm. Various winding mechanisms and numerous options are available offering maximum flexibility.



## Contact Information

### EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

### US Product Information Centre

Toll-free number: 1-800-27 27 537

[www.parker.com/eme](http://www.parker.com/eme)

## Product Features

- Suitable for use in explosive atmospheres for gas and dust in Zone 2
- CE and IECEx certified
- High dynamic performance
- Compact and robust
- Maintenance free
- High power density (6 kW in a 155 square frame)
- High precision and motion quality
- Low cogging
- Wide range of options
- Compatible with all popular drives
- Ambient temperature: 40 or 60°C



ENGINEERING YOUR SUCCESS.

# Non-Sparking Servo Motors - EY series

## Applications

EY servo motors have been certified for use in industrial environments where there is a potential risk of accumulation of gas, mist, dust or vapor. EY motors can be used in association with Parker ATEX gearboxes and/or electric cylinders. EY motors are suitable for, amongst other applications:

- Filling machines
- Packaging machines
- Painting robots
- Painting machines
- Valve actuators for gas turbine

## Safety compliance

Conforms with the European safety requirements

## Technical characteristics

<b>Motor type</b>	Permanent magnet synchronous motors
<b>Number of poles</b>	10
<b>Torque range</b>	2 to 41 Nm
<b>Speed range</b>	up to 6800 min <sup>-1</sup>
<b>Marking</b>	CE
<b>Voltage supply</b>	230 / 400 VAC
<b>Conformance</b>	ATEX 94/9/EC Directive
	IEC/EN60079-0
	IEC/EN60079-15 (Gas) IEC/EN60079-31 (Dust)
<b>Classification</b>	II 3G Ex nA IIC T3 Gc (Gas) II 3D Ex tc IIIC T200°C Dc (Dust)
<b>Ingress protection level</b>	IP65
<b>Connections</b>	Connector



- Mounting
  - Flange with clearance holes
- Mechanical interface
  - Solid smooth shaft (standard)
  - Solid shaft with key (option)
- Feedback sensors
  - 2 pole resolver (standard)
  - Sensorless (option)
- Thermal protection
  - PTC probes integrated to the windings
- Black painted
- Brake as an option

Rated Speed N <sub>MAX</sub> [min <sup>-1</sup> ]	Stall Torque M <sub>0</sub> [Nm]	Stall Current I <sub>0</sub> [A <sub>RMS</sub> ]	Rated Torque M <sub>N</sub> [Nm]	Rated Current I <sub>N</sub> [A <sub>RMS</sub> ]	Peak Torque M <sub>MAX</sub> [Nm]	Peak Current I <sub>MAX</sub> [A <sub>RMS</sub> ]	Moment of Inertia J [kgmm <sup>2</sup> ]	Product Code
<b>400 VAC power supply</b>								
6800	2	2.5	1.23	1.63	6.6	9.4	79	EY310EAK
6000	4	4.6	2.64	3.17	13.4	17.4	290	EY420EAK
5800	5.5	6.6	2.68	3.42	18.8	25.1	426	EY430EAF
5800	8	8.85	3.96	4.59	26.6	33.5	980	EY620EAK
4800	12	10.3	6.25	5.56	40	39.0	1470	EY630EAK
4200	16	12.2	12.6	9.82	50	45.9	3200	EY820EAP
3100	28	16.2	20.0	11.8	92	61.9	6200	EY840EAK
2800	41	20.2	20.5	10.4	137	78.4	9200	EY860EAH

