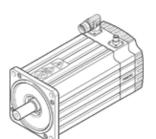
Servomotor EMMS-AS-140-L-HS-RMB-S1 Part number: 1574667 Product to be discontinued

FESTO

Without gear unit.



Data sheet

| Feature | Value | |
|--|---|--|
| Ambient temperature | -10 40 °C | |
| Storage temperature | -20 60 °C | |
| Relative air humidity | 0 - 90 % | |
| Conforms to standard | IEC 60034 | |
| Insulation protection class | F | |
| Rating class according to EN 60034-1 | S1 | |
| Temperature monitoring | PTC resistor | |
| Protection class | IP65 | |
| Electrical connector system | Plug | |
| Materials note | Conforms to RoHS | |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress | |
| PWIS conformity | VDMA24364-B2-L | |
| Authorization | RCM Mark | |
| | c UL us - Recognized (OL) | |
| CE symbol (see declaration of conformity) | according to EU-EMV guideline | |
| , , , | according to EU low voltage guideline | |
| | in accordance with EU RoHS directive | |
| UKCA marking (see declaration of conformity) | To UK instructions for electrical equipment | |
| | To UK instructions for EMC | |
| | To UK RoHS instructions | |
| Nominal voltage DC | 565 V | |
| Type of winding switch | Star inside | |
| Number of pole pairs | 6 | |
| Standstill torque | 25.6 Nm | |
| Nominal torque | 21.12 Nm | |
| Peak torque | 48.8 Nm | |
| Nominal rotary speed | 2,000 1/min | |
| Max. speed | 2,460 1/min | |
| Nominal motor power | 4,420 W | |
| Nominal motor current | 7.8 A | |
| Peak current | 20 A | |
| Motor constant | 2.72 Nm/A | |
| Voltage constant, phase-to-phase | 162.39 mVmin | |
| Phase-phase winding resistance | 1.41 Ohm | |
| Phase-phase winding inductance | 13.44 mH | |
| Overall mass moment of inertia at power take-off | 20.108 kgcm2 | |
| Product weight | 17,000 g | |
| Permissible axial shaft load | 200 N | |
| Permissible radial shaft load | 1,060 N | |
| Rotor position sensor | Absolute multi-turn encoder | |
| Rotary position encoder interface | EnDat 22 | |
| Rotary position encoder measuring principle | Inductive | |
| Rotor position encoder resolution | 19 Bit | |
| Brake holding torque | 18 Nm | |



| Feature | Value |
|---------------------------------|---|
| Operating voltage DC for brake | 24 V |
| Power consumption, brake | 15.6 W |
| Mass moment of inertia of brake | 1.2 kgcm2 |
| Switching cycles, holding brake | 5 million idle actuations (without work of friction!) |
| MTTF, subcomponent | 76 years, rotary position encoder |
| | 4469 years, holding brake |
| MTTFd, subcomponent | 152 years, rotary position encoder |
| Energy efficiency | ENEFF (CN) / Class 2 |