

Servomotor EMMS-AS-140-L-HS-RSB

Part number: 550137
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 | IP54 |
| 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 | 25.48 Nm |
| Nominal torque | 20.05 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 mV/min |
| 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 kgcm ² |
| Product weight | 17,000 g |
| Permissible axial shaft load | 200 N |
| Permissible radial shaft load | 1,060 N |
| Rotor position sensor | Absolute single turn encoder |
| Rotary position encoder interface | EnDat 22 |
| Rotary position encoder measuring principle | Inductive |
| Rotary position encoder resolution | 18 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 | 1.082 kgcm ² |
| 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 |