

Servo motor EMMS-AS-140-S-HS-RSB

Part number: 550133

FESTO



Data sheet

| Feature | Value |
|--|--|
| Type code | EMMS-AS |
| Ambient temperature | -10 °C ... 40 °C |
| Storage temperature | -20 °C ... 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 |
| Degree of protection | IP54 |
| Electrical connection technology | Plug |
| Note on materials | RoHS-compliant |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| LABS conformity | VDMA24364-B2-L |
| Certification | RCM compliance mark c UL us - Recognized (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU low voltage directive |
| DC nominal voltage | 565 V |
| Type of winding switch | Star inside |
| Number of pole pairs | 6 |
| Stall torque | 11.32 Nm |
| Nominal torque | 9.55 Nm |
| Peak torque | 25.6 Nm |
| Nominal rotary speed | 2600 1/min |
| Max. rotational speed | 3060 1/min |
| Motor nominal power | 2600 W |
| Motor nominal current | 4.4 A |
| Peak current | 15 A |
| Motor constants | 2.166 Nm/A |
| Voltage constant, phase-to-phase | 130.69 mVmin |
| Phase-phase winding resistance | 3.39 Ohm |
| Winding inductance phase-phase | 20.5 mH |
| Total output inertia moment | 9.271 kgcm ² |
| Product weight | 10400 g |
| Permissible axial shaft load | 200 N |
| Permissible radial shaft load | 780 N |

| Feature | Value |
|---|--|
| Rotor position sensor | Absolute encoder, single-turn |
| Rotor position sensor interface | EnDat® 22 |
| Rotor position sensor measuring principle | Inductive |
| Rotor position sensor resolution | 18 bit |
| Brake holding torque | 18 Nm |
| Brake DC operating voltage | 24 V |
| Brake power consumption | 15.6 W |
| Brake mass moment of inertia | 1.082 kgcm ² |
| Switching cycles, holding brake | 5 million idle actuations (without friction work!) |
| MTTF, subcomponent | 76 years, rotor position sensor 4469 years, holding brake |
| MTTFd, subcomponent | 152 years, rotor position sensor |
| Energy efficiency | ENEFF (CN) / Class 2 |