

Servo motor EMMS-AS-140-L-HV-RS

Part number: 1574676

FESTO



Data sheet

| Feature | Value |
|--------------------------------------------|------------------------------------------------------------|
| Number of pole pairs | 6 |
| Type code | EMMS-AS |
| Rotor position sensor | Absolute encoder, single-turn |
| Rotor position sensor interface | EnDat® 22 |
| Rotor position sensor measuring principle | Inductive |
| Temperature monitoring | PTC resistor |
| Max. rotational speed | 3830 1/min |
| Nominal rotary speed | 2800 1/min |
| Insulation protection class | F |
| Motor constants | 1.75 Nm/A |
| Motor nominal power | 5110 W |
| DC nominal voltage | 565 V |
| Motor nominal current | 9.96 A |
| Rotor position sensor resolution | 18 bit |
| Phase-phase winding resistance | 0.586 Ohm |
| Winding inductance phase-phase | 4.65 mH |
| Type of winding switch | Star inside |
| Peak current | 51.5 A |
| Voltage constant, phase-to-phase | 104.41 mVmin |
| Rating class according to EN 60034-1 | S1 |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU low voltage directive |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| Storage temperature | -20 °C ... 60 °C |
| Relative air humidity | 0 - 90 % |
| Degree of protection | IP54 |
| Ambient temperature | -10 °C ... 40 °C |
| Certification | RCM compliance mark c UL us - Recognized (OL) |
| Total output inertia moment | 19.027 kgcm ² |
| Nominal torque | 17.41 Nm |
| Peak torque | 67.5 Nm |
| Stall torque | 25.5 Nm |
| Permissible axial shaft load | 200 N |
| Permissible radial shaft load | 1060 N |
| MTTF, subcomponent | 76 years, rotor position sensor |

| Feature | Value |
|----------------------------------|----------------------------------|
| MTTFd, subcomponent | 152 years, rotor position sensor |
| Product weight | 16200 g |
| Electrical connection technology | Plug |
| Note on materials | RoHS-compliant |
| Conforms to standard | IEC 60034 |