

servo motor EMMS-AS-100-LK-HV-RSB

Part number: 1562990

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 |
| Shaft design Featherkey | DIN 6885 A 6 x 6 x 32 |
| Electrical connector system | Plug |
| Materials note | Conforms to RoHS |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| Authorisation | RCM Mark c UL us - Recognized (OL) |
| CE mark (see declaration of conformity) | to EU directive for EMC to EU directive low-voltage devices |
| Nominal operating voltage DC | 565 V |
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| Type of winding switch | Star inside |
| Number of pole pairs | 6 |
| Standstill torque | 10.93 Nm |
| Nominal torque | 6.29 Nm |
| Peak torque | 35.4 Nm |
| Nominal rotary speed | 3,400 1/min |
| Max. speed | 4,040 1/min |
| Nominal motor power | 2,240 W |
| Nominal motor current | 3.79 A |
| Peak current | 24.8 A |
| Motor constant | 1.66 Nm/A |
| Voltage constant, phase-to-phase | 98.93 mVmin |
| Phase-phase winding resistance | 1.98 Ohm |
| Phase-phase winding inductance | 7.76 mH |
| Overall mass moment of inertia at power take-off | 7.21 kgcm ² |
| Product weight | 9,390 g |
| Permissible axial shaft load | 150 N |
| Permissible radial shaft load | 650 N |
| Rotor position sensor | Absolute single turn encoder |
| Rotary position encoder interface | EnDat 22 |
| Rotary position encoder measuring principle | Inductive |
| Rotor position encoder resolution | 18 Bit |
| Brake holding torque | 9 Nm |
| Operating voltage DC for brake | 24 V |
| Power consumption, brake | 18 W |

| Feature | Value |
|---------------------------------|--|
| Mass moment of inertia of brake | 0.61 kgcm ² |
| Switching cycles, holding brake | 10 million idle actuations (without friction work) |
| MTTF, subcomponent | 76 years, rotary position encoder 3356 years, holding brake |
| MTTFd, subcomponent | 152 years, rotary position encoder |