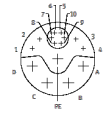
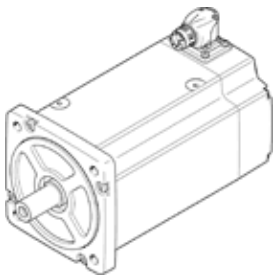


Servomotor EMMT-AS-150-LR-HT-R2MYB

Part number: 8148347

FESTO



Data sheet

| Feature | Value |
|---|---|
| Ambient temperature | -15 ... 40 °C |
| Note on ambient temperature | up to 80°C with derating -1.5%/°C |
| Max. installation height | 4,000 m |
| Note on max. installation height | As of 1,000 m, only with derating of -1.0% per 100 m |
| Storage temperature | -20 ... 70 °C |
| Relative air humidity | 0 - 90 % |
| Conforms to standard | IEC 60034 |
| Thermal class according to EN 60034-1 | F |
| Max. winding temperature | 155 °C |
| Rating class according to EN 60034-1 | S1 |
| Temperature monitoring | Digital motor temperature transmission via EnDat® 2.2 |
| Motor type acc. to EN 60034-7 | IM B5 IM V1 IM V3 |
| Assembly position | Any |
| Protection class | IP21 |
| Note on degree of protection | IP21 for motor shaft without rotary shaft seal IP65 motor shaft with RWDR IP67 for motor housing with connection technology |
| Concentricity, coaxiality, axial runout according to DIN SPEC 42955 | N |
| Balance quality | G 2,5 |
| Detent torque | <1.0% of peak torque |
| Storage lifetime under nominal conditions | 20,000 h |
| Interface code, motor out | 150A |
| Electrical connection 1, connection type | Hybrid plugs |
| Electrical connection 1, connection technology | M23x1 |
| Electrical connection 1, number of pins/wires | 15 |
| Degree of contamination | 2 |
| Materials note | Conforms to RoHS |
| Corrosion resistance classification CRC | 0 - No corrosion stress |
| PWIS conformity | VDMA24364 zone III |
| Vibration resistance | as per EN 60068-2-6 |
| Shock resistance | as per EN 60068-2-29 15 g/11 ms to EN 60068-2-27 |
| 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 |
| Certificate issuing department | TÜV 968/FSP 2317.00/21 UL E342973 |
| Nominal operating voltage DC | 680 V |
| Type of winding switch | Star inside |

| Feature | Value |
|---|---|
| Number of pole pairs | 5 |
| Standstill torque | 44 Nm |
| Nominal torque | 39.7 Nm |
| Peak torque | 86 Nm |
| Nominal rotary speed | 1,000 1/min |
| Max. speed | 1,812 1/min |
| Max. mechanical speed | 8,000 1/min |
| Nominal motor power | 4,157 W |
| Continuous open-circuit current | 11.4 A |
| Nominal motor current | 10.3 A |
| Peak current | 24 A |
| Motor constant | 3.85 Nm/A |
| Standstill torque constant | 4.38 Nm/A |
| Voltage constant, phase-to-phase | 264.9 mVmin |
| Phase-phase winding resistance | 1.016 Ohm |
| Phase-phase winding inductance | 15.7 mH |
| Winding longitudinal inductivity Ld (phase) | 7.95 mH |
| Winding cross inductivity Lq (phase) | 7.85 mH |
| Electric time constant | 15.6 ms |
| Thermal time constant | 55 min |
| Thermal resistance | 0.42 K/W |
| Measuring flange | 450 x 450 x 30, steel |
| Overall mass moment of inertia at power take-off | 70.1 kgcm ² |
| Product weight | 29,700 g |
| Permissible axial shaft load | 346 N |
| Permissible radial shaft load | 1,730 N |
| Rotor position sensor | Safety Enc. absolut multi turn |
| Rotor position sensor, manufacturer designation | EQI 1331 |
| Rotor position sensor, absolute detectable revolutions | 4,096 |
| Rotary position encoder interface | EnDat 22 |
| Rotary position encoder measuring principle | Inductive |
| Rotor position sensor, DC operating voltage | 5 V |
| Rotor position sensor, DC operating voltage range | 3.6 ... 14 V |
| Rotor position sensor, position values per revolution | 524,288 |
| Rotor position encoder resolution | 19 Bit |
| Rotor position sensor, system accuracy of angle measurement | -65 ... 65 arcsec |
| Brake holding torque | 65 Nm |
| Operating voltage DC for brake | 24 V |
| Brake current consumption | 1.08 A |
| Power consumption, brake | 26 W |
| Brake separation time | 200 ms |
| Brake closing time | 40 ms |
| DC brake response delay | 10 ms |
| Max. brake no-load speed | 8,000 1/min |
| Mass moment of inertia of brake | 12.5 kgcm ² |
| Switching cycles, holding brake | 5 million idle actuations (without work of friction!) |
| Safety Integrity Level (SIL), component parts | SIL 2, encoder |
| Performance Level (PL), component parts | Category 3, Performance Level d, encoder |
| PFHd, component parts | 15 x 10E-9, encoder |
| Duration of use Tm, component parts | 20 years, rotor position encoder |
| MTTF, subcomponent | 190 years, rotor position sensor |
| Energy efficiency | ENEFF (CN) / Class 1 |