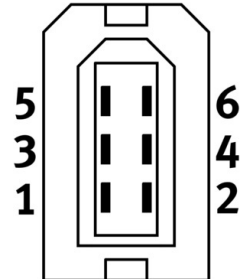


Servo motor EMMB-AS-80-07-S30S

Part number: 8097187

FESTO



Data sheet

| Feature | Value |
|---|---|
| Electrical connection 1, connection technology | Connection diagram RE |
| Electrical connection 1, connection type | Plug |
| Electrical connection for input 1, connection pattern | 00995792 |
| Concentricity, coaxiality, axial runout according to DIN SPEC 42955 | N |
| Rotor position sensor for manufacturer designation | SAR-ML50AJC00 |
| Mounting position | Any |
| Shock resistance | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 |
| Information on max. installation height | with 1,000 m and longer only with derating of -1.0% per 100 m |
| Note on degree of protection | IP40 for motor shaft without rotary shaft seal IP54 for motor shaft with rotary shaft seal IP65 for motor housing without connection technology |
| Contamination level | 2 |
| Note on ambient temperature | Up to 60 °C with derating of -1.5% per degree Celsius |
| Vibration resistance | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Measuring flange | 255 x 255 x 8 mm, aluminum |
| Motor type as per EN 60034-7 | IM B5 IM V1 IM V3 |
| Balancing quality | G 2.5 |
| Certificate issuing authority | UL E342973 |
| Electrical connection 1, number of pins/wires | 6 |
| Max. winding temperature | 155 °C |
| Max. installation height | 4000 m |
| Rotor position encoder for DC operating voltage | 5 V |
| Max. mechanical speed | 10000 1/min |
| Number of pole pairs | 3 |
| Storage lifetime, under nominal conditions | 20000 h |
| Electric time constant | 5 ms |
| Rotor position encoder for DC operating voltage range | 4.75 V ... 5.25 V |
| Rotor position encoder for absolutely detectable revolutions | 1 |
| Rotor position encoder system accuracy angle measurement | -120 arcsec ... 120 arcsec |
| Rotor position encoder for positional values per revolution | 1048576 |
| Type code | EMMB-AS |

| Feature | Value |
|--|--|
| Rotor position sensor | Absolute encoder, single-turn |
| Rotor position sensor interface | Nikon A-format |
| Rotor position sensor measuring principle | Optical |
| Temperature monitoring | Digital motor temperature transmission via Nikon A format |
| Max. rotational speed | 5000 1/min |
| Nominal rotary speed | 3000 1/min |
| Continuous stall current | 4.2 A |
| Motor constants | 0.662 Nm/A |
| Nominal operating voltage DC | 300 V |
| Motor nominal power | 750 W |
| DC nominal voltage | 300 V |
| Motor nominal current | 3.8 A |
| Rotor position sensor resolution | 20 bit |
| Phase-phase winding resistance | 2.1 Ohm |
| Winding inductance phase-phase | 10.5 mH |
| Type of winding switch | Star inside |
| Peak current | 11.4 A |
| Voltage constant, phase-to-phase | 40 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 As per EU RoHS directive |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| Storage temperature | -20 °C ... 55 °C |
| Relative air humidity | 0 - 90 % |
| Degree of protection | IP65 |
| Ambient temperature | -15 °C ... 40 °C |
| Thermal class according to EN 60034-1 | F |
| Certification | c UL us - Recognized (OL) |
| Total output inertia moment | 0.942 kgcm ² |
| Nominal torque | 2.39 Nm |
| Peak torque | 7.17 Nm |
| Stall torque | 2.63 Nm |
| Permissible axial shaft load | 167.5 N |
| Permissible radial shaft load | 335 N |
| Product weight | 2800 g |
| Note on materials | Contains paint-wetting impairment substances RoHS-compliant |
| Conforms to standard | IEC 60034 |