

# servo motor EMMS-AS-40-S-LS-TM

Part number: 1578602

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   |
| Electrical connector system                      | Plug   |
| Materials note                                   | Conforms to RoHS   |
| Corrosion resistance classification CRC          | 2 - Moderate corrosion stress                                  |
| Authorisation                                    | RCM Mark<br>c UL us - Recognized (OL)                          |
| CE mark (see declaration of conformity)          | to EU directive for EMC<br>to EU directive low-voltage devices |
| Nominal operating voltage DC                     | 360 V  |
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| Type of winding switch                           | Star inside  |
| Number of pole pairs                             | 4  |
| Standstill torque                                | 0.16 Nm  |
| Nominal torque                                   | 0.14 Nm  |
| Peak torque                                      | 0.5 Nm   |
| Nominal rotary speed                             | 9,000 1/min  |
| Max. speed                                       | 23,040 1/min   |
| Nominal motor power                              | 135 W  |
| Nominal motor current                            | 0.83 A   |
| Peak current                                     | 3.3 A  |
| Motor constant                                   | 0.172 Nm/A   |
| Voltage constant, phase-to-phase                 | 11 mVmin   |
| Phase-phase winding resistance                   | 20.5 Ohm   |
| Phase-phase winding inductance                   | 5.18 mH  |
| Overall mass moment of inertia at power take-off | 0.023 kgcm <sup>2</sup>  |
| Product weight                                   | 870 g  |
| Permissible axial shaft load                     | 12 N   |
| Permissible radial shaft load                    | 78 N   |
| Rotor position sensor                            | Absolute multi-turn encoder                                    |
| Rotary position encoder interface                | EnDat 22   |
| Rotary position encoder measuring principle      | Inductive  |
| Rotary position encoder resolution               | 19 Bit   |
| MTTF, subcomponent                               | 76 years, rotary position encoder                              |
| MTTFd, subcomponent                              | 152 years, rotary position encoder                             |