

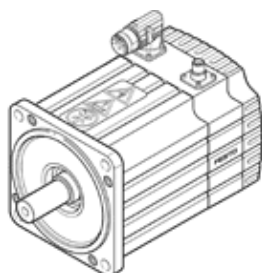
# servo motor

## EMMS-AS-140-SK-HS-RM-S1

Part number: 1574623  
Product to be discontinued

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                                 | IP65   |
| Shaft design Featherkey                          | DIN 6885<br>A 8 x 7 x 40   |
| Electrical connector system                      | Plug   |
| Materials note                                   | Conforms to RoHS   |
| Corrosion resistance classification CRC          | 2 - Moderate corrosion stress  |
| PWIS conformity                                  | VDMA24364-B2-L   |
| 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<br>in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity)     | To UK instructions for electrical equipment<br>To UK instructions for EMC<br>To UK RoHS instructions   |
| Nominal voltage DC                               | 565 V  |
| Type of winding switch                           | Star inside  |
| Number of pole pairs                             | 6  |
| Standstill torque                                | 11.2 Nm  |
| Nominal torque                                   | 9.55 Nm  |
| Peak torque                                      | 25.6 Nm  |
| Nominal rotary speed                             | 2,600 1/min  |
| Max. speed                                       | 3,060 1/min  |
| Nominal motor power                              | 2,600 W  |
| Nominal motor current                            | 4.4 A  |
| Peak current                                     | 15 A   |
| Motor constant                                   | 2.166 Nm/A   |
| Voltage constant, phase-to-phase                 | 130.69 mVmin   |
| Phase-phase winding resistance                   | 3.39 Ohm   |
| Phase-phase winding inductance                   | 20.5 mH  |
| Overall mass moment of inertia at power take-off | 8.189 kgcm <sup>2</sup>  |
| Product weight                                   | 9,600 g  |
| Permissible axial shaft load                     | 200 N  |
| Permissible radial shaft load                    | 780 N  |
| Rotor position sensor                            | Absolute multi-turn encoder  |
| Rotary position encoder interface                | EnDat 22   |
| Rotary position encoder measuring principle      | Inductive  |
| Rotor position encoder resolution                | 19 Bit   |
| MTTF, subcomponent                               | 76 years, rotary position encoder  |
| MTTFd, subcomponent                              | 152 years, rotary position encoder   |
| Energy efficiency                                | ENEFF (CN) / Class 2   |