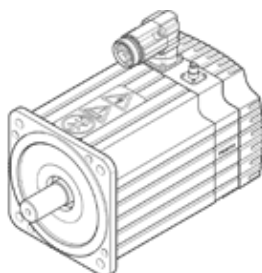


# servo motor EMMS-AS-190-MK-HS-AM-S1

Part number: 1584953  
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 10 x 8 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 operating voltage DC                     | 565 V  |
| Nominal voltage DC                               | 565 V  |
| Type of winding switch                           | Star inside  |
| Number of pole pairs                             | 6  |
| Standstill torque                                | 38.77 Nm   |
| Nominal torque                                   | 22.63 Nm   |
| Peak torque                                      | 120 Nm   |
| Nominal rotary speed                             | 2,900 1/min  |
| Max. speed                                       | 4,060 1/min  |
| Nominal motor power                              | 6,880 W  |
| Nominal motor current                            | 14.24 A  |
| Peak current                                     | 88.2 A   |
| Motor constant                                   | 1.589 Nm/A   |
| Voltage constant, phase-to-phase                 | 98.6 mVmin   |
| Phase-phase winding resistance                   | 0.265 Ohm  |
| Phase-phase winding inductance                   | 3.38 mH  |
| Overall mass moment of inertia at power take-off | 76.8 kgcm <sup>2</sup>   |
| Product weight                                   | 26,860 g   |
| Permissible axial shaft load                     | 250 N  |
| Permissible radial shaft load                    | 1,080 N  |
| Rotor position sensor                            | Absolute multi-turn encoder  |
| Rotary position encoder interface                | EnDat 22   |

| <b>Feature</b>                              | <b>Value</b>                       |
|---|------------------------------------|
| 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               |