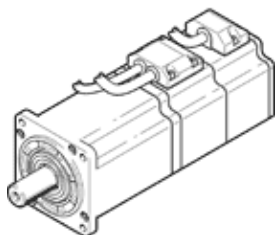


# servo motor EMMB-AS-60-02-SB

Part number: 5219173

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Ambient temperature                              | -20 ... 40 °C  |
| Storage temperature                              | -20 ... 70 °C  |
| Relative air humidity                            | 0 - 90 %   |
| Conforms to standard                             | IEC 60034  |
| Insulation protection class                      | F  |
| Rating class according to EN 60034-1             | S1   |
| Protection class                                 | IP65   |
| Electrical connector system                      | Plug   |
| Materials note                                   | Contains PWIS substances<br>Conforms to RoHS                   |
| Corrosion resistance classification CRC          | 0 - No corrosion stress  |
| CE mark (see declaration of conformity)          | to EU directive for EMC<br>to EU directive low-voltage devices |
| Authorisation                                    | c UL us - Recognized (OL)                                      |
| Nominal operating voltage DC                     | 300 V  |
| Nominal voltage DC                               | 300 V  |
| Standstill torque                                | 0.7 Nm   |
| Nominal torque                                   | 0.64 Nm  |
| Peak torque                                      | 1.92 Nm  |
| Nominal rotary speed                             | 3,000 1/min  |
| Max. speed                                       | 6,000 1/min  |
| Nominal motor power                              | 200 W  |
| Continuous open-circuit current                  | 1.5 A  |
| Nominal motor current                            | 1.4 A  |
| Peak current                                     | 4.2 A  |
| Motor constant                                   | 0.48 Nm/A  |
| Voltage constant, phase-to-phase                 | 29 mVmin   |
| Phase-phase winding resistance                   | 11.2 Ohm   |
| Phase-phase winding inductance                   | 20.9 mH  |
| Overall mass moment of inertia at power take-off | 0.218 kgcm <sup>2</sup>  |
| Product weight                                   | 1,600 g  |
| Permissible axial shaft load                     | 90 N   |
| Permissible radial shaft load                    | 180 N  |
| Rotor position sensor                            | Absolute single turn encoder                                   |
| Rotary position encoder interface                | Nikon A format   |
| Rotary position encoder measuring principle      | Optical  |
| Rotor position encoder, typical resolution       | 20 Bit   |
| Rotor position encoder, typical angular accuracy | 20 arcmin  |
| Brake holding torque                             | 1.3 Nm   |
| Operating voltage DC for brake                   | 24 V   |
| Power consumption, brake                         | 7.2 W  |
| Mass moment of inertia of brake                  | 0.004 kgcm <sup>2</sup>  |