

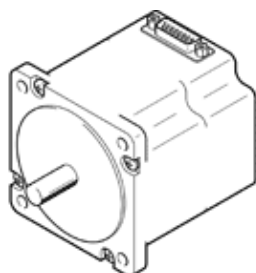
# stepper motor EMMS-ST-87-S-S-G2

Part number: 1370482

☆ Core product range

Without gearing, without brake.

FESTO



## Data sheet

| Feature  | Value                                 |
|--|---------------------------------------|
| Ambient temperature                              | -10 ... 50 °C                         |
| Storage temperature                              | -20 ... 70 °C                         |
| Relative air humidity                            | 0 - 85 %                              |
| Conforms to standard                             | IEC 60034                             |
| Insulation protection class                      | B                                     |
| Thermal class according to EN 60034-1            | B                                     |
| Rating class according to EN 60034-1             | S1                                    |
| Protection class                                 | IP54                                  |
| Electrical connector system                      | Plug                                  |
| Materials note                                   | Conforms to RoHS                      |
| Corrosion resistance classification CRC          | 1 - Low corrosion stress              |
| Authorisation                                    | RCM Mark<br>c UL us - Recognized (OL) |
| CE mark (see declaration of conformity)          | to EU directive for EMC               |
| Nominal operating voltage DC                     | 48 V                                  |
| Motor holding torque                             | 2.5 Nm                                |
| Max. speed                                       | 2,130 1/min                           |
| Stepper angle at full step                       | 1.8 deg                               |
| Stepper angle tolerance                          | ±5 %                                  |
| Nominal motor current                            | 9.5 A                                 |
| Voltage constant, phase                          | 19 mVmin                              |
| Winding resistance phase                         | 0.1 Ohm                               |
| Winding inductance phase                         | 0.45 mH                               |
| Mass moment of inertia of rotor                  | 1 kgcm <sup>2</sup>                   |
| Overall mass moment of inertia at power take-off | 1 kgcm <sup>2</sup>                   |
| Product weight                                   | 1,950 g                               |
| Permissible axial shaft load                     | 65 N                                  |
| Permissible radial shaft load                    | 200 N                                 |
| Brake holding torque                             | 2 Nm                                  |