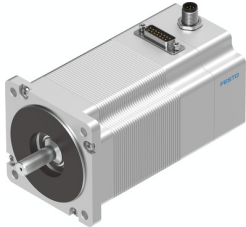


# Stepper motor EMMS-ST-87-M-SE-G2

Part number: 1370487

FESTO



## Data sheet

| Feature                                    | Value                                            |
|--------------------------------------------|--------------------------------------------------|
| Step angle with full step                  | 1.8 deg                                          |
| Step angle tolerance                       | ±5%                                              |
| Type code                                  | EMMS-ST                                          |
| Rotor position sensor                      | Incremental encoder                              |
| Rotor position sensor interface            | RS422 TTL A/B channels + zero index              |
| Rotor position sensor measuring principle  | Optical                                          |
| Max. rotational speed                      | 550 1/min                                        |
| Insulation protection class                | B                                                |
| Nominal operating voltage DC               | 48 V                                             |
| Motor nominal current                      | 9.5 A                                            |
| Phase winding resistance                   | 0.23 Ohm                                         |
| Winding inductance phase                   | 2.6 mH                                           |
| Voltage constant, phase                    | 68.6 mVmin                                       |
| Rating class according to EN 60034-1       | S1                                               |
| CE marking (see declaration of conformity) | As per EU EMC directive                          |
| Corrosion resistance class (CRC)           | 1 - Low corrosion stress                         |
| Storage temperature                        | -20 °C ... 70 °C                                 |
| Relative air humidity                      | 0 - 85 %                                         |
| Degree of protection                       | IP54                                             |
| Ambient temperature                        | -10 °C ... 50 °C                                 |
| Thermal class according to EN 60034-1      | B                                                |
| Certification                              | RCM compliance mark<br>c UL us - Recognized (OL) |
| Total output inertia moment                | 1.9 kgcm <sup>2</sup>                            |
| Brake holding torque                       | 2 Nm                                             |
| Motor holding torque                       | 5.9 Nm                                           |
| Rotor mass moment of inertia               | 1.9 kgcm <sup>2</sup>                            |
| Permissible axial shaft load               | 65 N                                             |
| Permissible radial shaft load              | 200 N                                            |
| Product weight                             | 3200 g                                           |
| Electrical connection technology           | Plug                                             |
| Note on materials                          | RoHS-compliant                                   |
| Conforms to standard                       | IEC 60034                                        |