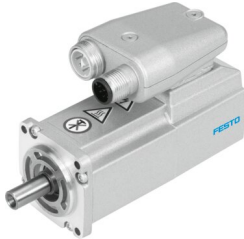


# Servo motor EMME-AS-40-S-LV-AM

Part number: 2082429

**FESTO**



## Data sheet

| Feature                                      | Value                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------|
| Ambient temperature                          | -10 °C...40 °C                                                                                       |
| Storage temperature                          | -20 °C...70 °C                                                                                       |
| Relative air humidity                        | 0 - 90 %                                                                                             |
| Conforms to standard                         | IEC 60034                                                                                            |
| Insulation protection class                  | F                                                                                                    |
| Rating class according to EN 60034-1         | S1                                                                                                   |
| Degree of protection                         | IP21                                                                                                 |
| Electrical connection technology             | Plug                                                                                                 |
| Note on materials                            | RoHS-compliant                                                                                       |
| Corrosion resistance class (CRC)             | 0 - No corrosion stress                                                                              |
| LABS (PWIS) conformity                       | VDMA24364 zone III                                                                                   |
| Certification                                | RCM compliance mark<br>c UL us - Recognized (OL)                                                     |
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>As per EU low voltage directive<br>As per EU RoHS directive               |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions<br>To UK instructions for electrical equipment |
| Nominal operating voltage DC                 | 360 V                                                                                                |
| DC nominal voltage                           | 360 V                                                                                                |
| Type of winding switch                       | Star inside                                                                                          |
| Number of pole pairs                         | 2                                                                                                    |
| Stall torque                                 | 0.18 Nm                                                                                              |
| Nominal torque                               | 0.12 Nm                                                                                              |
| Peak torque                                  | 0.7 Nm                                                                                               |
| Nominal rotary speed                         | 9000 rpm                                                                                             |
| Max. rotational speed                        | 10000 rpm                                                                                            |
| Motor nominal power                          | 110 W                                                                                                |
| Continuous stall current                     | 0.8 A                                                                                                |
| Motor nominal current                        | 0.7 A                                                                                                |
| Peak current                                 | 3.2 A                                                                                                |
| Motor constants                              | 0.171 Nm/A                                                                                           |

| Feature                                                                | Value                            |
|------------------------------------------------------------------------|----------------------------------|
| Voltage constant, phase-to-phase                                       | 13.5 mVmin                       |
| Phase-phase winding resistance                                         | 25.6 Ohm                         |
| Winding inductance phase-phase                                         | 9.95 mH                          |
| Total output inertia moment                                            | 0.03 kgcm <sup>2</sup>           |
| Product weight                                                         | 500 g                            |
| Permissible axial shaft load                                           | 12 N                             |
| Permissible radial shaft load                                          | 105 N                            |
| Rotor position sensor                                                  | Absolute encoder, multi-turn     |
| Rotor position sensor interface                                        | HIPERFACE®                       |
| Rotor position sensor measuring principle                              | Capacitive                       |
| Rotor position encoder, sinusoidal/cosinusoidal periods per revolution | 16                               |
| Typical rotor position sensor resolution                               | 12 bit                           |
| Rotor position encoder, typical angular accuracy                       | 20 arcmin                        |
| MTTFd, subcomponent                                                    | 271 years, rotor position sensor |