

# Ball screw linear actuator EGC-120-300-BS-25P-KF-0H-ML-GK

Part number: 3013580

FESTO



## Data sheet

| Feature                                       | Value   |
|---|---|
| Working stroke                                | 300 mm  |
| Size  | 120   |
| Stroke reserve                                | 0 mm  |
| Screw diameter                                | 25 mm   |
| Spindle pitch                                 | 25 mm/U                                       |
| Type code                                     | EGC   |
| Mounting position                             | Any   |
| Guide   | Recirculating ball bearing guide              |
| Structural design                             | Electromechanical linear axis with ball screw |
| Motor type                                    | Stepper motor<br>Servo motor                  |
| Spindle type                                  | Ball screw                                    |
| Symbol  | 00991211                                      |
| Max. acceleration                             | 15 m/s <sup>2</sup>                           |
| Max. speed                                    | 1.5 m/s ... 1.875 m/s                         |
| Repetition accuracy                           | ±0.02 mm                                      |
| Duty cycle                                    | 100%  |
| Degree of protection                          | IP40  |
| Ambient temperature                           | -10 °C ... 60 °C                              |
| 2nd moment of area Ix                         | 5010000 mm <sup>4</sup>                       |
| 2nd moment of area Iy                         | 5820000 mm <sup>4</sup>                       |
| 2nd moment of area Iz                         | 5010000 mm <sup>4</sup>                       |
| Max. force Fy                                 | 6890 N  |
| Max. force Fz                                 | 6890 N  |
| Max. torque Mx                                | 144 Nm  |
| Max. radial force on actuator shaft           | 500 N   |
| Max. feed force Fx                            | 1500 N  |
| Torsion moment of inertia It                  | 1430000 mm <sup>4</sup>                       |
| Mass moment of inertia JH per meter of stroke | 2.756 kgcm <sup>2</sup>                       |
| Feed constant                                 | 25 mm/U                                       |
| Material of end caps                          | Wrought aluminum alloy<br>Anodized            |
| Moment compensator material                   | Wrought aluminum alloy<br>Anodized            |
| Profile material                              | Wrought aluminum alloy<br>Anodized            |

| <b>Feature</b>          | <b>Value</b>                       |
|-------------------------|------------------------------------|
| Note on materials       | RoHS-compliant                     |
| Drive cover material    | Wrought aluminum alloy<br>Anodized |
| Slide carriage material | Steel                              |
| Guide rail material     | Steel                              |
| Slide material          | Wrought aluminum alloy<br>Anodized |
| Spindle nut material    | Steel                              |
| Spindle material        | Steel                              |