

# Electrical slide EGSK-46-500-20P

Part number: 562793

FESTO



 General operating condition

## Data sheet

| Feature                                       | Value                                                  |
|-----------------------------------------------|--------------------------------------------------------|
| Working stroke                                | 500 mm                                                 |
| Size                                          | 46                                                     |
| Reversing backlash theoretical                | $\leq 20 \mu\text{m}$                                  |
| Spindle diameter                              | 15 mm                                                  |
| Spindle pitch                                 | 20 mm/U                                                |
| Mounting position                             | optional                                               |
| Guide                                         | Recirculating ball bearing guide                       |
| Design                                        | Electromechanical linear axis<br>With ball screw drive |
| Referencing                                   | Reference switch                                       |
| Spindle type                                  | Ball screw drive                                       |
| Symbol                                        | 00991211                                               |
| Max. acceleration                             | 20 m/s <sup>2</sup>                                    |
| Max. speed                                    | 1.05 m/s                                               |
| Repetition accuracy                           | $\pm 0.01 \text{ mm}$                                  |
| Corrosion resistance class CRC                | 0 - No corrosion stress                                |
| LABS (PWIS) conformity                        | VDMA24364 zone III                                     |
| Degree of protection                          | IP10                                                   |
| Ambient temperature                           | 0 °C ... 40 °C                                         |
| Dynamic basic load rating fixed bearing       | 6600 N                                                 |
| Dynamic basic load rating linear guide        | 21747 N                                                |
| Dynamic basic load rating ball screw          | 3040 N                                                 |
| 2nd moment of area Iy                         | 240000 mm <sup>4</sup>                                 |
| 2nd moment of area Iz                         | 1500000 mm <sup>4</sup>                                |
| Max. drive torque                             | 0.61 Nm                                                |
| Max. force Fy                                 | 3904 N                                                 |
| Max. force Fz                                 | 3904 N                                                 |
| Max. moment Mx                                | 115 Nm                                                 |
| Max. moment My                                | 38.7 Nm                                                |
| Max. moment Mz                                | 38.7 Nm                                                |
| Max. feed force Fx                            | 192 N                                                  |
| Frictional torque independent of load         | 0.1 Nm                                                 |
| Static basic load rating ball screw           | 7150 N                                                 |
| Static basic load rating linear guide         | 45500 N                                                |
| Mass moment of inertia JH per metre of stroke | 0.39 kgcm <sup>2</sup>                                 |

| Feature                                | Value                           |
|----------------------------------------|---------------------------------|
| Mass moment of inertia JO              | 0.154 kgcm <sup>2</sup>         |
| Feed constant                          | 20 mm/U                         |
| Static basic load rating fixed bearing | 3240 N                          |
| Reference service life                 | 10000 km                        |
| Moving mass                            | 910 g                           |
| Weight of slide                        | 910 g                           |
| Product weight                         | 11520 g                         |
| Weight of additional slide             | 910 g                           |
| Basic weight for 0 mm stroke           | 5170 g                          |
| Additional weight per 10 mm stroke     | 127 g                           |
| Type of mounting                       | Via female thread and dowel pin |
| Material end cap                       | Die-cast aluminium<br>Coated    |
| Material profile                       | Coated<br>High-alloy steel      |
| Note on materials                      | RoHS-compliant                  |
| Material drive cover                   | Die-cast aluminium<br>Coated    |
| Material slide                         | Steel                           |
| Material spindle nut                   | Steel                           |
| Material spindle                       | Steel                           |