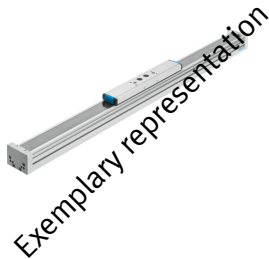


# Guide axis ELFA-RF-70- -

Part number: 8037967

FESTO



General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                                                    | Value                                |
|----------------------------------------------------------------------------|--------------------------------------|
| Working stroke                                                             | 50 mm ... 7000 mm                    |
| Size                                                                       | 70                                   |
| Mounting position                                                          | Any                                  |
| Guide                                                                      | Roller guide                         |
| Structural design                                                          | Guide                                |
| Symbol                                                                     | 00992984                             |
| Max. acceleration                                                          | 50 m/s <sup>2</sup>                  |
| Max. speed                                                                 | 10 m/s                               |
| Corrosion resistance class (CRC)                                           | 0 - No corrosion stress              |
| LABS (PWIS) conformity                                                     | VDMA24364 zone III                   |
| Degree of protection                                                       | IP40                                 |
| Ambient temperature                                                        | -10 °C ... 60 °C                     |
| 2nd moment of area Iy                                                      | 139140 mm <sup>4</sup>               |
| 2nd moment of area Iz                                                      | 433100 mm <sup>4</sup>               |
| Max. force Fy                                                              | 500 N                                |
| Max. force Fz                                                              | 500 N                                |
| Max. no-load resistance to shifting                                        | 25 N                                 |
| Max. torque Mx                                                             | 11 Nm                                |
| Max. force Fy total axis                                                   | 500 N                                |
| Max. force Fz total axis                                                   | 500 N                                |
| Max. moment Mx total axis                                                  | 11 Nm                                |
| Reference service life                                                     | 10000 km                             |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 2320 N                               |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 2320 N                               |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 51 Nm                                |
| Additional weight per 10 mm stroke                                         | 30.54 g                              |
| Dynamic deflection (load moved)                                            | 0.05% of axis length, maximum 0.5 mm |
| Static deflection (load at standstill)                                     | 0.1 % of axis length                 |
| Type of mounting                                                           | With accessories                     |
| Material of end caps                                                       | Wrought aluminum alloy<br>Anodized   |
| Profile material                                                           | Wrought aluminum alloy<br>Anodized   |
| Note on materials                                                          | RoHS-compliant                       |

| Feature              | Value                              |
|----------------------|------------------------------------|
| Cover strip material | Stainless steel strip              |
| Guide material       | Steel                              |
| Slide material       | Wrought aluminum alloy<br>Anodized |