

# Guided actuator DFM-63-125-P-A-KF

Part number: 170957

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Distance of centre of gravity of payload to yoke plate xs        | 50 mm  |
| Max. static moment Mx  | 100 Nm   |
| Max. static moment My  | 67.2 Nm  |
| Max. permissible torque load Mx as a function of the stroke      | 17.92 Nm   |
| Max. force Fz static   | 1600 N   |
| Max. force Fy static   | 1600 N   |
| Center of gravity of the moving mass as a function of the stroke | 75.2 mm  |
| Max. static moment Mz  | 67.2 Nm  |
| Max. force Fy  | 1487 N   |
| Max. force Fz  | 1487 N   |
| Max. torque My   | 62.46 Nm   |
| Max. torque Mz   | 62.46 Nm   |
| Stroke   | 125 mm   |
| Piston diameter  | 63 mm  |
| Type code  | DFM  |
| Drive unit operating mode  | Yoke   |
| Cushioning   | Elastic cushioning rings/pads at both ends                         |
| Mounting position  | Any  |
| Guide  | Recirculating ball bearing guide                                   |
| Design   | Guide  |
| Position sensing   | For proximity sensor   |
| Symbol   | 00991737   |
| Operating pressure   | 1 bar ... 10 bar   |
| Max. speed   | 0.6 m/s  |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media                         | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)                                 | 0 - No corrosion stress  |
| Ambient temperature  | -5 °C ... 60 °C  |
| Impact energy in the end positions                               | 1.3 J  |
| Max. torque Mx   | 92.97 Nm   |
| Max. payload as a function of the stroke at defined distance xs  | 238 N  |
| Theoretical force at 6 bar, retracting                           | 1750 N   |
| Theoretical force at 6 bar, advancing                            | 1870 N   |
| Moving mass  | 3146 g   |
| Product weight   | 7279 g   |

| <b>Feature</b>          | <b>Value</b>                              |
|-------------------------|---|
| Alternative connections | See product drawing                       |
| Pneumatic connection    | G1/4                                      |
| Note on materials       | Free of copper and PTFE<br>RoHS-compliant |
| Cover material          | Wrought aluminum alloy                    |
| Seals material          | NBR                                       |
| Housing material        | Wrought aluminum alloy                    |
| Piston rod material     | High-alloy stainless steel                |