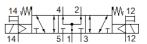
# Solenoid valve MFH-5/3B-D-2-S-C-EX Part number: 535985

With manual override, without solenoid coil or socket. Solenoid coil and socket should be ordered separately.

# **Data sheet**

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/3 pressurized  |
| Type of actuation                                 | electrical   |
| Width   | 54 mm  |
| Standard nominal flow rate                        | 2,300 l/min  |
| Operating pressure MPa                            | -0.09 1.6 MPa  |
| Working pressure                                  | -0.9 16 bar  |
| Design structure                                  | Piston slide   |
| Type of reset                                     | mechanical spring  |
| CE symbol (see declaration of conformity)         | according to EU-Ex protection guideline (ATEX)                                       |
| UKCA marking (see declaration of conformity)      | To UK EX instructions  |
| ATEX category Gas                                 | II 2G  |
| ATEX category Dust                                | II 2D  |
| Explosion ignition protection type Gas            | Ex h IIC T4 Gb   |
| Explosion ignition protection type Dust           | Ex h IIIC T105°C Db  |
| Explosion-proof ambient temperature               | -5°C <= Ta <= +40°C  |
| Explosion protection certification outside the EU | EPL Db (GB)  |
|   | EPL Gb (GB)  |
| Protection class                                  | IP65   |
| Nominal size                                      | 11.5 mm  |
| Grid dimension                                    | 56 mm  |
| Exhaust-air function                              | throttleable   |
| Sealing principle                                 | soft   |
| Assembly position                                 | Any  |
| Conforms to standard                              | ISO 5599-1   |
| Manual override                                   | with accessories, detenting  |
|   | Pushing  |
| ISO code  | 269  |
| Type of piloting                                  | Piloted  |
| Pilot air supply                                  | external   |
| Flow direction                                    | reversible   |
| Lap   | Positive overlap   |
| Pilot pressure                                    | 3 10 bar   |
| Switching time off                                | 69 ms  |
| Switching time on                                 | 35 ms  |
| Max. positive test pulse with logic 0             | 2,200 µs   |
| Max. negative test pulse with logic 1             | 3,700 µs   |
| Operating medium                                  | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                             |
| Note on operating and pilot medium                | Lubricated operation possible (subsequently required for further                     |
|   | operation)   |
| Vibration resistance                              | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                                  | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27    |



### **FESTO**

## FESTO

| Feature                      | Value  |
|------------------------------|--|
| PWIS conformity              | VDMA24364-B1/B2-L  |
| Medium temperature           | -10 60 °C  |
| Sound pressure level         | 85 dB(A)   |
| Pilot medium                 | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Ambient temperature          | -5 40 °C   |
| Product weight               | 820 g  |
| Electrical connection        | Via F coil, must be ordered separately                   |
| Mounting type                | On subbase   |
|                              | With through-hole and screw                              |
| Pilot exhaust port 82        | M5   |
| Pilot exhaust port 84        | M5   |
| Pilot air port 12            | Connection plate size 2 as per ISO 5599-1                |
| Pilot air port 14            | Connection plate size 2 as per ISO 5599-1                |
| Pneumatic connection, port 1 | Connection plate size 2 as per ISO 5599-1                |
| Pneumatic connection, port 2 | Connection plate size 2 as per ISO 5599-1                |
| Pneumatic connection, port 3 | Connection plate size 2 as per ISO 5599-1                |
| Pneumatic connection, port 4 | Connection plate size 2 as per ISO 5599-1                |
| Pneumatic connection, port 5 | Connection plate size 2 as per ISO 5599-1                |
| Materials note               | Conforms to RoHS   |
| Material seals               | HNBR   |
|                              | NBR  |
| Material housing             | Aluminum die cast  |