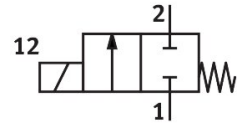


# Air solenoid valve MC-2-1/8

Part number: 2187

FESTO



 General operating condition

## Data sheet

| Feature                    | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Valve function             | 2/2, closed, monostable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Actuation type             | Electrical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standard nominal flow rate | 300 l/min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Pneumatic working port     | G1/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating pressure         | -0.095 MPa ... 0.7 MPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Operating pressure         | -0.95 bar ... 7 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Structural design          | Poppet valve with return spring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reset method               | Mechanical spring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Degree of protection       | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Nominal width              | 4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sealing principle          | Soft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Manual override            | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Type of control            | Direct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Flow direction             | Non-reversible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Symbol                     | 00991397                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Switching time off         | 20 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| On switching time          | 18 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Duty cycle                 | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Coil characteristics       | 110 V AC: 50/60 Hz, initial power 30.0 VA, holding power 22.0 VA<br>110 V DC: 12.7 W<br>120 V AC: 60 Hz, initial power 30.0 VA, holding power 22.0 VA<br>12 V AC: 50 Hz, initial power 30.0 VA, holding power 22.0 VA<br>12 V DC: 11.7 W<br>220 V AC: 50/60 Hz, initial power 30.0 VA, holding power 22.0 VA<br>220 V DC: 15.0 W<br>240 V AC: 50 Hz, initial power 30.0 VA, holding power 22.0 VA<br>240 V DC: 17.9 W<br>24 V AC: 50 Hz, initial power 30.0 VA, holding power 22.0 VA<br>24 V DC: 11.0 W<br>380 V AC: 50/60 Hz, initial power 30.0 VA, holding power 22.0 VA<br>42 V AC: 50/60 Hz, initial power 30.0 VA, holding power 22.0 VA<br>42 V DC: 12.0 W<br>48 V AC: 50 Hz, initial power 30.0 VA, holding power 22.0 VA<br>96 V DC: 11.0 W |
| Operating medium           | Compressed air as per ISO 8573-1:2010 [7:4:4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| LABS (PWIS) conformity     | VDMA24364-C1-L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Storage temperature        | -40 °C ... 100 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Temperature of medium      | -10 °C ... 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ambient temperature        | -5 °C ... 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Type of mounting           | With through-hole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Feature                | Value          |
|------------------------|----------------|
| Pneumatic connection 1 | G1/8           |
| Pneumatic connection 2 | G1/8           |
| Note on materials      | RoHS-compliant |