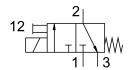
## Solenoid valve MHA3-MS1H-3/2G-3 Part number: 525135







## **Data sheet**

| Feature                                    | Value  |
|--|--|
| Valve function                             | 3/2-way, closed, monostable                                  |
| Type of actuation                          | Electric   |
| Construction width                         | 14 mm  |
| Standard nominal flow rate                 | 200 l/min  |
| pneumatic working port                     | Sub-base   |
| Operating voltage                          | 24V DC   |
| Operating pressure                         | -0.09 MPa0.8 MPa<br>-0.9 bar8 bar                            |
| Design                                     | Pressure-relieved poppet valve                               |
| Type of reset                              | Mechanical spring  |
| Degree of protection                       | IP65   |
| Approval                                   | RCM trademark<br>c UL us - Recognized (OL)                   |
| CE mark (see declaration of conformity)    | To EU EMC Directive In accordance with EU RoHS Directive     |
| CE marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions           |
| Nominal size                               | 3 mm   |
| Grid dimension                             | 19 mm  |
| Note on grid dimension                     | Minimum distance between the valves is 5 mm                  |
| Exhaust-air function                       | With flow control option                                     |
| Sealing principle                          | Soft   |
| Mounting position                          | optional   |
| Manual override                            | Non-detenting  |
| Type of piloting                           | Direct   |
| Flow direction                             | Reversible with restrictions                                 |
| lap  | Underlap   |
| Reverse polarity protection                | Bipolar  |
| Additional functions                       | Spark arresting Holding current reduction Protective circuit |
| Operating pressure, reversible             | -0.09 MPa0.1 MPa<br>-0.9 bar1 bar<br>-13.05 psi14.5 psi      |

| Feature  | Value  |
|--|--|
| Max. switching frequency                             | 280 Hz   |
| Switching time off                                   | 2.8 ms   |
| Switching time on                                    | 2.3 ms   |
| Tolerance switching time off                         | +10%/-50%  |
| Tolerance switching time on                          | +10%/-30%  |
| Switching time dispersion from 1 Hz                  | 0.2 ms   |
| Duty cycle   | 100%   |
| Characteristic coil data                             | 24 V DC: low-current phase 1.6 W, high-current phase 6.5 W                                 |
| Permissible voltage fluctuations                     | +/- 10 %   |
| Operating medium                                     | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                   | Lubricated operation possible (in which case lubricated operation will always be required) |
| Vibration resistance                                 | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6           |
| Restrictions for environmental and media temperature | As a function of switching frequency (see graph)   |
| Shock resistance                                     | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                          |
| Corrosion resistance class CRC                       | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                               | VDMA24364-B1/B2-L  |
| Cleanroom class                                      | Class 6 according to ISO 14644-1   |
| Media temperature                                    | -5 °C40 °C   |
| Ambient temperature                                  | -5 °C40 °C   |
| Product weight                                       | 120 g  |
| Electrical connection                                | 2-pin<br>Plugs   |
| Type of mounting                                     | On PR rail   |
| Pneumatic connection, port 1                         | Sub-base   |
| Pneumatic connection, port 2                         | Sub-base   |
| Pneumatic connection, port 3                         | Sub-base   |
| Note on materials                                    | RoHS-compliant   |
| Material seals                                       | HNBR<br>NBR  |
| Material housing                                     | Die-cast zinc, coated  |
| Material screws                                      | Galvanised steel   |