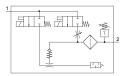
## Vacuum generator OVEM-14-H-B-QO-CE-N-1P Part number: 540024







## **Data sheet**

| Feature                            | Value  |
|------------------------------------|--|
| Nominal size, Laval nozzle         | 1.4 mm   |
| Grid dimension                     | 20 mm  |
| Silencer design                    | Open   |
| Mounting position                  | optional   |
| Ejector characteristic             | High vacuum<br>Standard  |
| Grade of filtration                | 40 μm  |
| Manual override                    | Non-detenting  |
| Integrated function                | Electric ejector pulse valve Flow control Electric on-off valve Filter Check valve Open silencer Vacuum switch |
| Design                             | Modular  |
| Short circuit current rating       | yes  |
| Measured variable                  | Relative pressure  |
| Measuring principle                | Piezoresistive   |
| Switching element function         | N/O contact  |
| Switching function                 | Threshold value comparator Threshold value with fixed hysteresis   |
| Valve function                     | Closed   |
| Reverse polarity protection        | For all electrical connections   |
| Standard switching input           | IEC 61131-2  |
| Display type                       | LED  |
| Setting options                    | Teach-in   |
| Switching position indicator       | LED  |
| Switching status indication        | Optical  |
| Setting range threshold value      | -1 bar0 bar  |
| Operating pressure                 | 2 bar8 bar   |
| Operating pressure for max. vacuum | 3.6 bar  |
| Max. vacuum                        | 93 %   |
| Nominal operating pressure         | 6 bar  |

| Feature  | Value   |
|--|---|
| Max. suction flow rate against atmosphere          | 50.5 l/min  |
| Air supply time at nominal operating pressure      | 0.2 s   |
| Operational voltage range DC                       | 20.4 V27.6 V  |
| Duty cycle   | 100%  |
| Inductive protective circuit                       | Adapted to MZ, MY, ME coils                                 |
| Insulation voltage                                 | 50 V  |
| No-load supply current                             | 80 mA   |
| Max. output current                                | 100 mA  |
| Off-state current                                  | 0.1 mA  |
| Switching output                                   | PNP   |
| Voltage drop                                       | 1.5 V   |
| Characteristic coil data                           | 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W |
| Overload protection                                | Available   |
| Pollution degree                                   | 3   |
| Approval   | RCM trademark<br>c UL us listed (OL)                        |
| KC mark  | KC-EMV  |
| CE mark (see declaration of conformity)            | To EU EMC Directive   |
| CE marking (see declaration of conformity)         | To UK instructions for EMC                                  |
| Operating medium                                   | Compressed air to ISO 8573-1:2010 [7:4:4]                   |
| Note on operating and pilot medium                 | Lubricated operation not possible                           |
| Corrosion resistance class CRC                     | 2 - Moderate corrosion stress                               |
| LABS (PWIS) conformity                             | VDMA24364 zone III  |
| Media temperature                                  | 0 °C50 °C   |
| Relative air humidity                              | 5 - 85 %  |
| Sound pressure level at nominal operating pressure | 77 dB(A)  |
| Degree of protection                               | IP65  |
| Protection class                                   |   |
| Ambient temperature                                | 0 °C50 °C   |
| Max. tightening torque                             | 0.8 Nm with female thread                                   |
|  | 2.5 Nm with through-hole                                    |
| Product weight                                     | 371 g   |
| Pressure measuring range                           | -1 bar0 bar   |
| Accuracy in ± % FS                                 | 0.5 %FS   |
| Hysteresis   | 0.02 bar  |
| Reproducibility of switching values FS             | 0.6 %   |
| Switching logic for inputs                         | PNP (positive switching)                                    |
| Electrical connection                              | 5-pin<br>M12x1<br>Plugs                                     |
| Type of mounting                                   | With through-hole Via female thread With accessories        |
| Pneumatic connection, port 1                       | QS-8  |
| Pneumatic connection, port 3                       | Integrated silencer   |
| Vacuum connection                                  | QS-8  |
| Note on materials                                  | RoHS-compliant  |
| Material seals                                     | NBR   |
| Material receiver nozzle                           | РОМ   |
| Material filter                                    | Fabric  |
|  | PA<br>Sintered steel  |
| Material filter housing                            | PA-reinforced   |
| Material housing  Material housing                 | Die-cast aluminium  |
| material nousing                                   | PA-reinforced   |

| Feature                     | Value                              |
|-----------------------------|------------------------------------|
| Material adjusting screw    | Steel                              |
| Material silencer           | Wrought aluminium alloy<br>PU foam |
| Material screws             | Steel                              |
| Material connector housing  | Nickel-plated brass                |
| Material electrical contact | Gold-plated brass                  |
| Material pins               | Steel                              |
| Material transmitter nozzle | Wrought aluminium alloy            |
| Material keypad             | PA-reinforced                      |
| Material fitting            | Nickel-plated brass                |