

# Vacuum generator VN-07-L-T4-PQ2-VQ2-O2-P

Part number: 536803

FESTO



General operating condition

## Data sheet

| Feature                                      | Value  |
|--|--|
| Nominal width of Laval nozzle                | 0.7 mm   |
| Width dimension                              | 16 mm  |
| Muffler construction type                    | Open   |
| Mounting position                            | Any  |
| Ejector characteristics                      | High suction flow<br>Standard  |
| Integrated function                          | Pressure sensor<br>Muffler open  |
| Structural design                            | T-shape  |
| Short-circuit protection                     | Pulsed   |
| Measured variable                            | Relative pressure  |
| Measuring principle                          | Piezoresistive   |
| Method of measurement                        | Relative   |
| Switching element function                   | N.O. contact   |
| Switching function                           | Threshold value comparator<br>Threshold value with variable hysteresis |
| Symbol                                       | 00991917   |
| Reverse polarity protection                  | for all electrical connections   |
| Display type                                 | LED  |
| Setting range threshold value                | -0.1 MPa ... 0 MPa   |
| Setting options                              | Teach-in   |
| Switching status indication                  | LED  |
| Setting range threshold value                | -1 bar ... 0 bar   |
| Threshold value setting range                | -14.5 psi ... 0 psi  |
| Operating pressure for max. suction rate     | 0.4 MPa  |
| Operating pressure for max. suction rate     | 4 bar  |
| Operating pressure for max. suction rate     | 58 psi   |
| Operating pressure                           | 0.1 MPa ... 0.8 MPa  |
| Operating pressure                           | 1 bar ... 8 bar  |
| Operating pressure                           | 14.5 psi ... 116 psi   |
| Nominal operating pressure                   | 0.6 MPa  |
| Nominal operating pressure                   | 6 bar  |
| Nominal operating pressure                   | 87 psi   |
| Max. suction rate with respect to atmosphere | 30.9 l/min   |
| Switch-off time                              | ≤4 ms  |
| On time                                      | ≤4 ms  |

| Feature                                      | Value   |
|--|---|
| DC operating voltage range                   | 15 V ... 30 V                                 |
| Inductive protective circuit                 | Adapted to MZ, MY and ME coils                |
| Max. output current                          | 100 mA  |
| Residual current                             | ≤0.3 mA                                       |
| Residual ripple                              | 10%   |
| Switching output                             | PNP   |
| Voltage drop                                 | ≤1.5 V  |
| Overload protection                          | Available                                     |
| Certification                                | RCM compliance mark                           |
| KC characters                                | KC-EMV  |
| CE marking (see declaration of conformity)   | As per EU EMC directive                       |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC                    |
| Operating medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Information on operating and pilot media     | Operation with oil lubrication not possible   |
| Corrosion resistance class (CRC)             | 1 - Low corrosion stress                      |
| LABS (PWIS) conformity                       | VDMA24364-B1/B2-L                             |
| Temperature of medium                        | 0 °C ... 60 °C                                |
| Cleaning advice                              | Soap suds                                     |
| Noise level at nominal operating pressure    | 63 dB(A)                                      |
| Degree of protection                         | IP40  |
| Ambient temperature                          | 0 °C ... 50 °C                                |
| Max. tightening torque                       | 0.6 Nm  |
| Pressure measuring range                     | -0.1 MPa ... 0 MPa                            |
| Pressure measuring range                     | -1 bar ... 0 bar                              |
| Pressure measuring range                     | -14.5 psi ... 0 psi                           |
| Product weight                               | 36 g  |
| Accuracy in ± % FS                           | 1.5 %FS                                       |
| Long-term drift                              | ±0.5% FS max.                                 |
| Temperature coefficient of switching point   | 0.05 %/K                                      |
| Electrical connection                        | M8  |
| Type of mounting                             | With through-hole                             |
| Pneumatic connection 1                       | QS-6  |
| Pneumatic connection 3                       | Muffler open                                  |
| Vacuum connection                            | QS-6  |
| Seals material                               | NBR   |
| Female nozzle material                       | POM   |
| Housing material                             | Reinforced POM                                |
| Fiber-optic cable                            | PC  |
| Muffler material                             | Protective grounding                          |
| Material of plug housing                     | Chrome-plated and nickel-plated               |
| Material of jet nozzle                       | Wrought aluminum alloy                        |
| Material of keypad                           | POM   |
| Material of pneumatic fitting                | Brass<br>Nickel-plated                        |