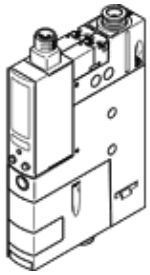
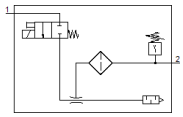
vacuum generator
OVEM-05-H-B-QO-CN-N-2P

Part number: 538834

FESTO

Supply/vacuum port with QS fittings, exhaust port with open silencer.





Data sheet

Feature	Value
Nominal size, Laval nozzle	0.45 mm
Grid dimension	20 mm
Design, silencer	open
Assembly position	Any
Ejector characteristic	High vacuum Standard
Grade of filtration	40 µm
Manual override	Pushing Additionally via operating buttons
Integrated function	Electrical on-off valve Filter Open silencer Vacuum switch
Design structure	modular
Short circuit strength	Yes
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	Normally closed contact Normally open contact
Switching function	Window comparator Threshold value comparator
Valve function	closed
Polarity protected	for all electrical connections
Standard switching input	IEC 61131-2
Type of display	4-place alphanumeric Backlit LCD
Indicating range [bar]	-0.999 ... 0 bar
Unit(s) that can be displayed	bar
Hysteresis adjustment range [bar]	-0.9 ... 0 bar
Setting options	Via display and buttons
Switching position indicator	LCD
Operating status display	Optical
Threshold setting range	-0.999 ... 0 bar
Operating pressure	2 ... 8 bar
Operating pressure for max. vacuum	5.1 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar
Max. suction rate with respect to atmosphere	6 l/min
Air supply time at nominal operating pressure	4.8 s
Operating voltage range DC	20.4 ... 27.6 V
Duty cycle	100 %
Inductive protective circuit	Adapted to MZ-, MY-, ME coils
Insulation voltage	50 V
Idle current	‹ 70 mA

Feature	Value
Max. output current	100 mA
Residual current	0.1 mA
Switch output	2xPNP
Voltage drop	<= 1.5 V
Characteristic coil data	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Surge strength	0.8 kV
Overload withstand capability	Available
Degree of contamination	3
Authorisation	RCM Mark c UL us - Listed (OL)
KC mark	KC-EMV
CE mark (see declaration of conformity)	to EU directive for EMC
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Medium temperature	0 ... 50 °C
Relative air humidity	5 - 85 %
Noise level at nominal operating pressure	51 dB(A)
Protection class	IP65
Safety class	III
Ambient temperature	0 ... 50 °C
Max. tightening torque	0.8 Nm with female thread 2.5 Nm with clearance hole
Product weight	320 g
Pressure measuring range	-1 ... 0 bar
Accuracy, FS	3 %FS
Switching point reproducibility, FS	0.6 %
Input circuit logic	PNP (positive-switching)
Electrical connection	5-pin M12x1 Plug
Mounting type	with through hole with internal (female) thread with accessories
Pneumatic connection, port 1	QS-6
Pneumatic connection, port 3	Integrated silencer
Vacuum connection	QS-6
Materials note	Contains PWIS substances Conforms to RoHS
Material seals	NBR
Material receiver nozzle	POM
Material filter	Mesh PA Sintered steel
Material filter housing	PA-reinforced
Material housing	Aluminium die cast PA-reinforced
Material silencer	Wrought Aluminium alloy PU foam
Material screws	Steel
Material screen	PA
Material connector housing	Nickel-plated brass
Material electrical contact	Brass, gold-plated
Material pins	Steel
Material transmitter nozzle	Wrought Aluminium alloy
Material keypad	TPE-U
Material fitting	Nickel-plated brass