

# vacuum generator OVEM-14-H-B-QO-CE-N-1P

Part number: 540024

FESTO

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



## Data sheet

Feature	Value
Nominal size, Laval nozzle	1.4 mm
Grid dimension	20 mm
Design, silencer	open
Assembly position	Any
Ejector characteristic	High vacuum Standard
Grade of filtration	40 µm
Manual override	Pushing
Integrated function	Ejector pulse valve, electrical Flow control valve Electrical on-off valve Filter Non-return valve Open silencer Vacuum switch
Design structure	modular
Short circuit strength	Yes
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	Normally open contact
Switching function	Threshold value comparator Threshold value with fixed hysteresis
Valve function	closed
Polarity protected	for all electrical connections
Standard switching input	IEC 61131-2
Type of display	LED
Setting options	Teach-In
Switching position indicator	LED
Operating status display	Optical
Threshold setting range	-1 ... 0 bar
Operating pressure	2 ... 8 bar
Operating pressure for max. vacuum	3.6 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar
Max. suction rate with respect to atmosphere	50.5 l/min
Air supply time at nominal operating pressure	0.2 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	< 80 mA
Max. output current	100 mA
Residual current	0.1 mA
Switch output	PNP

Feature	Value
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
UKCA marking (see declaration of conformity)	To UK instructions 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
PWIS conformity	VDMA24364 zone III
Medium temperature	0 ... 50 °C
Relative air humidity	5 - 85 %
Noise level at nominal operating pressure	77 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	371 g
Pressure measuring range	-1 ... 0 bar
Accuracy, FS	0.5 %FS
Hysteresis	0.02 bar
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-8
Pneumatic connection, port 3	Integrated silencer
Vacuum connection	QS-8
Materials note	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 adjusting screw	Steel
Material silencer	Wrought Aluminium alloy PU foam
Material screws	Steel
Material connector housing	Nickel-plated brass
Material electrical contact	Brass, gold-plated
Material pins	Steel
Material transmitter nozzle	Wrought Aluminium alloy
Material keypad	PA-reinforced
Material fitting	Nickel-plated brass