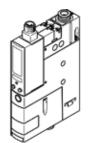
vacuum generator OVEM-07-H-B-QO-CE-N-2N Part number: 540018

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



Data sheet

Feature	Value
Nominal size, Laval nozzle	0.7 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	Ejector pulse valve, electrical
	Flow control valve
	Electrical on-off valve
	Filter
	Air saving function, electrical
	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 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	4.1 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar
Max. suction rate with respect to atmosphere	16 l/min
Air supply time at nominal operating pressure	0.4 s
Operating voltage range DC	20.4 27.6 V

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Feature	Value
Duty cycle	100 %
Inductive protective circuit	Adapted to MZ-, MY-, ME coils
Insulation voltage	50 V
Idle current	< 70 mA
Max. output current	100 mA
Residual current	0.1 mA
Switch output	2xNPN
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
KC mark	c UL us - Listed (OL) KC-EMV
	to EU directive for EMC
CE mark (see declaration of conformity) 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	58 dB(A)
Protection class	IP65
Safety class	
Ambient temperature	0 50 °C
Max. tightening torque	0.8 Nm with female thread
	2.5 Nm with clearance hole
Product weight	330 g
Pressure measuring range	-1 0 bar
Accuracy, FS	3 %FS
Switching point reproducibility, FS	0.6 %
Input circuit logic	NPN (negative 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	Contains PWIS substances
	Conforms to RoHS
Material seals	NBR
Material receiver nozzle	POM
Material filter	Mesh
	PA Cinternal start
Material filter housing	Sintered steel PA-reinforced
Material filter housing	PA-reinforced Aluminium die cast
Material housing	Aluminium die cast PA-reinforced
Material adjusting screw	Steel
Material adjusting screw Material silencer	Steel Wrought Aluminium alloy
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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
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Feature	Value
Material fitting	Nickel-plated brass