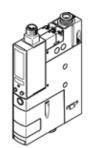
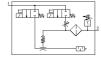
vacuum generator OVEM-14-H-B-QO-CE-N-2N Part number: 540020

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	
	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	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	



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
VC I	c UL us - Listed (OL)
KC mark	KC-EMV
CE mark (see declaration of conformity)	to EU directive for EMC
Operating medium Note on operating and pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4] Lubricated operation not possible
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Medium temperature	2 - Moderate corrosion stress 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
initial digitalising to que	2.5 Nm with clearance hole
Product weight	380 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
Material coals	Conforms to RoHS
Material seals Material receiver nozzle	NBR POM
Material filter	Mesh
material filter	PA 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 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



Feature	Value
Material fitting	Nickel-plated brass