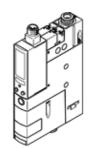
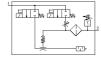
vacuum generator OVEM-20-H-B-QO-CE-N-1P Part number: 8023699

FESTO

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





Data sheet

Feature	Value
Nominal size, Laval nozzle	2 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	5.3 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar
Max. suction rate with respect to atmosphere	86.5 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
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	74 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	390 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	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 hollow bolt	Wrought Aluminium alloy
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
Material bracket	Stainless steel
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