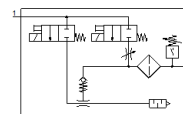
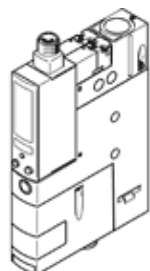


vacuum generator OVEM-07-H-B-GO-CE-N-1P

Part number: 540026

FESTO

Supply/vacuum port with G threads, exhaust port with open silencer



Data sheet

Feature	values
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
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
Threshold setting range	-1 ... 0 bar
Setting options	Teach-In
Switching position indicator	LED
Operating status display	Optical
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
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	values
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
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
CE mark (see declaration of conformity)	to EU directive for EMC
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	III
Ambient temperature	0 ... 50 °C
Authorisation	RCM Mark c UL us - Listed (OL)
Max. tightening torque	0.8 Nm with female thread 2.5 Nm with clearance hole
Product weight	325 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	Plug M12x1 5-pin
Mounting type	with through hole with internal (female) thread with accessories
Pneumatic connection, port 1	G1/4
Pneumatic connection, port 3	Integrated silencer
Vacuum connection	G1/4
Materials note	Contains PWIS substances Conforms to RoHS
Materials information for seals	NBR
Material information, collector nozzle	POM
Materials information for filter	Mesh PA Sintered steel
Material information, filter housing	PA-reinforced
Materials information, housing	Aluminium die cast PA-reinforced
Regulating screw material data	Steel
Material information, silencer	Wrought Aluminium alloy PU foam
Screw material data	Steel
Material information, plug housing	Brass Nickel plated
Material information for crimp connectors	Brass Gold plated
Material information, pins	Steel
Material information, jet nozzle	Wrought Aluminium alloy
Material information, keypad	PA-reinforced
Materials information for fitting	Wrought aluminium alloy, anodised