Vacuum generator OVEM-07-H-B-QO-OE-N-2P Part number: 538826



Data sheet

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General operating condition

Feature	Value
Nominal width of Laval nozzle	0.7 mm
Width dimension	20 mm
Muffler construction type	Open
Mounting position	Any
Ejector characteristics	High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting Additionally via operating buttons
Integrated function	Ejector pulse valve, electric Flow control Shut off valve, electric Compressed air filter Air saving function, electrical Non-return valve Pneumatic muffler open Vacuum switch
Structural design	Modular
Short-circuit protection	yes
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	N/C contact N/O contact
Switching function	Window comparator Threshold value comparator
Symbol	00992102
Valve function	Open
Reverse polarity protection	for all electrical connections
Switching input to standard	IEC 61131-2
Display type	4-character alphanumeric Back-lit LCD
Display range	-0.999 bar 0 bar
Displayable unit(s)	bar
Setting range hysteresis	-0.9 bar 0 bar
Setting options	Via display and pushbuttons
Switching position indication	LCD
Switching status indication	Optical
Setting range threshold value	-0.999 bar 0 bar
Operating pressure	2 bar 8 bar

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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 DC operating voltage range 20.4 V 27.6 V Duty cycle 100% Inductive protective circuit Adapted to MZ, MY and ME coils Insulation voltage 50 V Idle current c70 mA Max. output current 100 mA Residual current 0.1 mA Switching output 2xPNP Voltage drop ≤1.5 V Coil characteristics 24 V DC: low-current phase 0.3 W, high-current ph Surge resistance 0.8 kV Overload protection Available Contamination level 3 Certification RCM compliance mark cUL us - Listed (OL) KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC Operating medium Corpressed air as per ISO 8573-1:2010[7:4:4] Inform	lase 2.55 W
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Noise level at nominal operating pressure 58 dB(A) Degree of protection IP65	
Degree of protection IP65	
Protection class III	
Ambient temperature 0 °C 50 °C	
Max. tightening torque 0.8 Nm with internal thread 2.5 Nm with through-hole	
Product weight 330 g	
Pressure measuring range -1 bar 0 bar	
Accuracy in ± % FS 3 %FS	
Reproducibility, switching value FS 0.6 %	
Input switching logic PNP (positive switching)	
Electrical connection 5-pin M12x1 Plug	
Type of mounting With through-hole With internal thread With accessories	
Pneumatic connection 1 QS-8	
Pneumatic connection 3 Pneumatic muffler integrated	
Vacuum connection QS-8	
Note on materials RoHS-compliant	
Seals material NBR	
Female nozzle material POM	
Compressed air filter material Fabric PA	
Sintered steel	

Feature	Value
Material of filter housing	PA-reinforced
Housing material	Die-cast aluminum PA-reinforced
Material of adjusting screw	Steel
Muffler material	Wrought aluminum alloy PU foam
Material of screws	Steel
Inspection window material	PA
Material of plug housing	Brass, nickel-plated
Material of pin contacts	Brass, gold-plated
Material of pins	Steel
Material of jet nozzle	Wrought aluminum alloy
Material of keypad	TPE-U
Material of pneumatic fitting	Brass, nickel-plated