Vacuum generator OVEM-07-H-B-QO-OE-N-2N Part number: 540009



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 93 % Max. vacuum 93 % Nominal operating pressure 6 bar 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 Ide current 4.0 mA Max. output current 100 mA Residual current 0.1 mA Switching output 2.1 NPN Voltage drop 4.1 S V Coll characteristics 2.4 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contamination level 3 Certification RCK compliance mark current UKCA marking (see declaration of conformity) As per EU BMC drop. VUKCA marking (see declaration of conformity) KC EMC Certification Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible	Feature	Value
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 D Operating voltage range 20.4 V 27.6 V Duty cycle 100% Inductive protective circuit Adapted to MZ, MY and ME colls Insulation voltage 50 V Ide current 670 mA Max. output current 100 mA Residual current 0.1 mA Switching output 2xNPN Voltage drop 21.5 V Coli characteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contamination level 3 Certification RCM compliance mark Current with of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC Operating medium Compressed air as per ISO 8573-1:2010[7:4:4] Information on operating and pilot media Operation with oil lubricati	Operating pressure for max. vacuum	4.1 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 470 mA Max. output current 100 mA Residual current 0.1 mA Switching output 2xNPN Voltage drop 41.5 V Coil characteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contaracteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contaracteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contaracteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available	Max. vacuum	93 %
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 670 mA Max. output current 100 mA Residual current 0.1 mA Switching output 2xNPN Voltage drop 4.15 V Coil characteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contamination level 3 Certification RCM compliance mark c UL us - Listed (OL) KC characters KC EMC CE marking (see declaration of conformity) To UK instructions for EMC Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible Carrosion resistance class (CRC) 2 - Moderate corrosion stress LABS (PWIS) conformity VDMA24364 zone III Temperature of medium 0 °C 50 °C Relative air humidity 5 - 85 % Noise level at nominal operating pressure 58 dB(A) Degrees of protection IP65	Nominal operating pressure	6 bar
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 670 mA Max. output current 100 mA Residual current 0.1 mA Switching output 2xNPN Voltage drop 41.5 V Coil characteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contamination level 3 Certification RCM compliance mark cUL us - Listed (0L) 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 Compressed air as per ISO 8873-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible Corrosion resistance class (CRC) 2 - Moderate corrosion stress LABS (PWIS) conformity VDMA24364 zone III Temperature of medium 0 °C 50 °C Relative air hun	Max. suction rate with respect to atmosphere	16 l/min
Duty cycle 100% Inductive protective circuit Adapted to MZ, MY and ME coils Insulation voltage 50 V Idle current 70 mA Max. output current 100 mA Residual current 0.1 mA Switching output 2xNPN Voltage drop 41.5 V Coil characteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contamination level 3 Certification RCM compliance mark cUL us - Listed (0L) 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 Operation with oil lubrication not possible Corrosion resistance class (CRC) 2 - Moderate corrosion stress LABS (PWIS) conformity VDMA24364 zone III Temperature of medium 0 °C 50 °C Relative air humidity 0 °C 50 °C Noise level at nominal operating pressure 58 dB(A) Degree of protection IP65 <		0.4 s
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Insulation voltage50 VIdle current<70 mA	Duty cycle	100%
Insulation voltage50 VIdle current<70 mA	Inductive protective circuit	Adapted to MZ, MY and ME coils
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Residual current 0.1 mA Switching output 2xNPN Voltage drop ≤1.5 V Coll characteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contamination level 3 Certification RCM compliance mark c UL 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 Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible Corrosion resistance class (CRC) 2 - Moderate corrosion stress LABS (PWIS) conformity VDMA24364 zone III Temperature of medium 0 °C 50 °C Relative air humidity 5 -85 % Noise level at nominal operating pressure 58 dB(A) Degree of protection IP65 Protection class III Ambient temperature 0 °C 50 °C Max. tightening torque 0.8 Nm with internal thread	Max. output current	100 mA
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Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication not possibleCorrosion resistance class (CRC)2 - Moderate corrosion stressLABS (PWIS) conformityVDMA24364 zone IIITemperature of medium0 °C 50 °CRelative air humidity5 - 85 %Noise level at nominal operating pressure58 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS0.6 %	CE marking (see declaration of conformity)	As per EU EMC directive
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LABS (PWIS) conformityVDMA24364 zone IIITemperature of medium0 °C 50 °CRelative air humidity5 - 85 %Noise level at nominal operating pressure58 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS0.6 %	Information on operating and pilot media	Operation with oil lubrication not possible
Temperature of medium0 °C 50 °CRelative air humidity5 - 85 %Noise level at nominal operating pressure58 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Relative air humidity5 - 85 %Noise level at nominal operating pressure58 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	LABS (PWIS) conformity	VDMA24364 zone III
Noise level at nominal operating pressure58 dB(A)Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	Temperature of medium	0 °C 50 °C
Degree of protectionIP65Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	Relative air humidity	5 - 85 %
Protection classIIIAmbient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	Noise level at nominal operating pressure	58 dB(A)
Ambient temperature0 °C 50 °CMax. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	Degree of protection	IP65
Max. tightening torque0.8 Nm with internal thread 2.5 Nm with through-holeProduct weight330 gPressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	Protection class	111
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 %	Ambient temperature	0 ℃ 50 ℃
Pressure measuring range-1 bar 0 barAccuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	Max. tightening torque	
Accuracy in ± % FS3 %FSReproducibility, switching value FS0.6 %	Product weight	330 g
Reproducibility, switching value FS 0.6 %	Pressure measuring range	-1 bar 0 bar
	Accuracy in ± % FS	3 %FS
Input switching logic NPN (negative switching)	Reproducibility, switching value FS	0.6 %
	Input switching logic	NPN (negative switching)
Electrical connection 5-pin M12x1 Plug		M12x1
Type of mounting With through-hole With internal thread With accessories	Type of mounting	With internal thread
Pneumatic connection 1 QS-8	Pneumatic connection 1	QS-8
Pneumatic connection 3 Pneumatic muffler integrated	Pneumatic connection 3	Pneumatic muffler integrated
Vacuum connection QS-8	Vacuum connection	QS-8
Note on materials RoHS-compliant	Note on materials	RoHS-compliant
Seals material NBR	Seals material	NBR
Female nozzle material POM	Female nozzle material	РОМ
Compressed air filter material Fabric PA	Compressed air filter material	
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