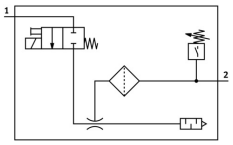
Vacuum generator
OVEM-10-H-B-QO-CN-N-2P

Part number: 538836



General operating condition

Data sheet

Feature	Value
Nominal size, Laval nozzle	0.95 mm
Grid dimension	20 mm
Silencer design	Open
Mounting position	optional
Ejector characteristic	High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting Additionally via operating buttons
Integrated function	Electric on-off valve Filter Open silencer Vacuum switch
Design	Modular
Short circuit current rating	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	00992092
Valve function	Closed
Reverse polarity protection	For all electrical connections
Standard switching input	IEC 61131-2
Display type	4-place alphanumeric Back-lit LCD
Indicating range	-0.999 bar ... 0 bar
Displayable units	bar
Setting range hysteresis	-0.9 bar ... 0 bar
Setting options	Via display and keys
Switching position indicator	LCD
Switching status indication	Optical
Setting range threshold value	-0.999 bar ... 0 bar
Operating pressure	2 bar ... 8 bar
Operating pressure for max. vacuum	3.5 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar

Feature	Value
Max. suction flow rate against atmosphere	19.5 l/min
Air supply time at nominal operating pressure	1.2 s
Operational voltage range DC	20.4 V ... 27.6 V
Duty cycle	100%
Inductive protective circuit	Adapted to MZ, MY, ME coils
Insulation voltage	50 V
No-load supply current	<70 mA
Max. output current	100 mA
Off-state current	0.1 mA
Switching output	2xPNP
Voltage drop	≤1.5 V
Characteristic coil data	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Immunity to surge	0.8 kV
Overload protection	Available
Pollution degree	3
Approval	RCM trademark c UL us listed (OL)
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive
CE marking (see declaration of conformity)	To UK instructions for EMC
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Media temperature	0 °C ... 50 °C
Relative air humidity	5 - 85 %
Sound pressure level at nominal operating pressure	73 dB(A)
Degree of protection	IP65
Protection class	III
Ambient temperature	0 °C ... 50 °C
Max. tightening torque	0.8 Nm with female thread 2.5 Nm with through-hole
Product weight	330 g
Pressure measuring range	-1 bar ... 0 bar
Accuracy in ± % FS	3 %FS
Reproducibility of switching values FS	0.6 %
Switching logic for inputs	PNP (positive switching)
Electrical connection	5-pin M12x1 Plugs
Type of mounting	With through-hole Via female thread With accessories
Pneumatic connection, port 1	QS-8
Pneumatic connection, port 3	Integrated silencer
Vacuum connection	QS-8
Note on materials	RoHS-compliant
Material seals	NBR
Material receiver nozzle	POM
Material filter	Fabric PA Sintered steel
Material filter housing	PA-reinforced
Material housing	Die-cast aluminium PA-reinforced

Feature	Value
Material silencer	Wrought aluminium alloy PU foam
Material screws	Steel
Material screen	PA
Material connector housing	Nickel-plated brass
Material electrical contact	Gold-plated brass
Material pins	Steel
Material transmitter nozzle	Wrought aluminium alloy
Material keypad	TPE-U
Material fitting	Nickel-plated brass