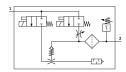
Vacuum generator OVEM-05-H-B-QO-CE-N-LK Part number: 8037693

FESTO





Data sheet

Feature	Value
Nominal width of Laval nozzle	0.45 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
Valve function	Closed
Reverse polarity protection	for all electrical connections
Switching input to standard	IEC 61131-2
Display type	4-character alphanumeric Back-lit LCD
Switching position indication	LCD
Operating pressure	2 bar8 bar
Operating pressure for max. vacuum	5.1 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar
Max. suction rate with respect to atmosphere	6 l/min
Air supply time at nominal operating pressure	0.2 s
DC operating voltage range	20.4 V27.6 V
Duty cycle	100%
Max. output current	100 mA

Residual current Oci characteristics Overtood protection Available Certification REAM compliance mark cit us - Lated (OL) REC characters REAM compliance mark cit us - Lated (OL) REC characters REAM compliance mark cit us - Lated (OL) REC characters REAM compliance mark cit us - Lated (OL) REC marking (see declaration of conformity) As per ELBKC directive URCA marking (see declaration of conformity) IRCA marking (see ST37-12:00) [7:44] IRCA marking (see ST	Feature	Value
Overload protection Certification Comparising (see declaration of conformity) Comparising medium Comparising medium Comparising medium Comparising medium Comparising on operating and pilot media Operation with oil lubrication not possible Corrosion resistance class (CRC) 2. Moderate corrosion stress Certification Corrosion resistance class (CRC) 2. Moderate corrosion stress Certification Corrosion resistance class (CRC) 2. Moderate corrosion stress Certification Corrosion resistance class (CRC) Corrosion class (CRC) Co	Residual current	0.1 mA
Certification CRC compliance mark CUL us - Listed (01)	Coil characteristics	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
C.U. us - Listed (OU) K.C. characters K.C. EMC	Overload protection	Available
Et marking (see declaration of conformity) IRCA marking (see declaration of conformity) To UK instructions for EMC Operating medium Compressed air as per 150 8573-1;2010 [7:44] Information on operating and pilot media Corrosion resistance dissa (CRC) 2. Moderate corrosion stress 5. 46(A) Coperce of protection Ple56 Ambient temperature O PC50 °C Max. lightening torque O S. No with internal thread 2.5, No	Certification	
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Operating medium Compressed air as per ISO 8573-1:2010 [7:44] Information on operating and pilot media Operation with oil subrication not possible Corrosion resistance class (RC) 2 - Moderate corrosion stress LABS (eWiS) conformity VDMA24364 zone III Temperature of medium O "C50 "C Relative air humidity S - 83 % Noise level at nominal operating pressure S 1.09(A) Degree of protection Oegree of protect	CE marking (see declaration of conformity)	As per EU EMC directive
Information on operating and pilot media Corrosion resistance class (RC) 2. Moderate corrosion stress ALBS (PWIS) conformity VOMA2364 one III Temperature of medium 0. °C50 °C Relative air humidity 5. 8. % Notice level at nominal operating pressure 15.1 dBI(A) Degree of protection IP65 Ambient temperature 0. °C50 °C Ambient temperature 0. °C50 °C Ambient temperature 1. So Nm with internal thread 2. S Nm with internal thread 3. S Nm with internal thread 4. S Nm with internal thread 5. S Nm with internal thread 6. S Nm with	UKCA marking (see declaration of conformity)	To UK instructions for EMC
Corrosion resistance class (CRC) 2 - Moderate corrosion stress	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
ABS (PWIS) conformity	Information on operating and pilot media	Operation with oil lubrication not possible
Temperature of medium O *C50 *C Relative air humidity 5 : 85 % Nobles level at normal operating pressure 5 ! d Bf(A) Degree of protection PP65 Ambient temperature O *C50 *C Ambient temperature I *D *C50 *C Ambient temperature O *C50 *C Ambient through-hole With internal	Corrosion resistance class (CRC)	
Relative air humidity S - 85 %	LABS (PWIS) conformity	VDMA24364 zone III
Noise level at nominal operating pressure Degree of protection Pie65 Max. tightening torque O. 8 Mm with internal thread 2.5 Mm with through-hole Product weight Product weight 325 g Pressure measuring range 1 bar0 bar Protocol Ol-link®, protocol version Device V 1.1 Ol-link®, protocol version Ol-link®, function classes Pressure manufaction mode OCM2 (38,4 kBd) Ol-link®, prot class A Ol-link®, prot class A Ol-link®, prot class A Ol-link®, process data width OUT Device V 1.1 Ol-link®, process data width OUT Device V 1.1 Ol-link®, process data width N Device V 1.1	Temperature of medium	0 °C50 °C
Degree of protection Ambient temperature O °C50 °C Ambient temperature O °C50 °C Ambient temperature O °C50 °C OR Nm with internal thread 2.5 Nm with internal thread 2.5 Nm with internal thread 2.5 Nm with through-hole Product weight Prossure measuring range 1-bar0 bar Protocol Ol-Link® Protocol Ol-Link® Protocol Processor Ol-Link® Ol-Link®, protocol version Ol-Link®, profile Smart sensor profile Smart sensor profile Ol-Link®, function classes Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel Ol-Link®, port class A Ol-Link®, protess data width OUT I byte Ol-Link®, process data width OUT I byte Ol-Link®, process data width N I byte Ol-Link®, process data width N I byte Ol-Link®, process data width N I bit (sector pulse ON/OFF) I bit (vacuum ON/OFF)	· · · · · · · · · · · · · · · · · · ·	5 - 85 %
Ambient temperature O °C50 °C Max. tightening torque 0.8 km with internal thread 2.5 km with through-hole Product weight 325 g Pressure measuring range 1.1 bar0 bar Protocol IO-Link®, protocol version Oevice V 1.1 IO-Link®, profile Smart sensor profile Smart sensor profile IO-Link®, function classes Binary data channet (BDC) Process data variable (PDV) Identification Diegnostics Feach channel IO-Link®, port class O-Link®, process data width OUT 1 Byte IO-Link®, process data width NI 10-Link®, process data width IN 10-Link®, process data variable (PDV) Io-Link®, process data content OUT 1 bit (vacuum ON/OFF) Io-Link®, process data variable (PDV) Io-Link®, device ID Oxonoo3E Electrical connection 5 pin M12x1 Plug Type of mounting With through-hole with internal thread with internal thre	Noise level at nominal operating pressure	51 dB(A)
Ambient temperature O °C50 °C Max. tightening torque 0.8 km with internal thread 2.5 km with through-hole Product weight 325 g Pressure measuring range 1.1 bar0 bar Protocol IO-Link®, protocol version Oevice V 1.1 IO-Link®, profile Smart sensor profile Smart sensor profile IO-Link®, function classes Binary data channet (BDC) Process data variable (PDV) Identification Diegnostics Feach channel IO-Link®, port class O-Link®, process data width OUT 1 Byte IO-Link®, process data width NI 10-Link®, process data width IN 10-Link®, process data variable (PDV) Io-Link®, process data content OUT 1 bit (vacuum ON/OFF) Io-Link®, process data variable (PDV) Io-Link®, device ID Oxonoo3E Electrical connection 5 pin M12x1 Plug Type of mounting With through-hole with internal thread with internal thre		1.7
Max. tightening torque 2.5 km with internal thread 2.5 km with internal thread 2.5 km with through-hole Product weight 2.5 g Pressure measuring range 1-1 bar 0 bar Protocol 10-Link® 10-Link®, protocol version 10-Link®, function classes Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel 10-Link®, communication mode 10-Link®, port class A 10-Link®, process data waidth OUT 1 byte 10-Link®, process data waidth OUT 1 bit (ejector pulse ON/OFF) 1 bit (vacuum ON/OFF) 10-Link®, process data content OUT 1 bit (pressure measurement) 2 bit BDC (pressure measurement) 2 bit BDC (pressure monitoring) 10-Link®, device ID 2 Seye 10-Link®, device ID 2 Seye 10-Link®, device ID 2 Seye 10-Link®, device ID 3 5 ms 10-Link®, device ID 2 Seye 10-Link®, device ID 3 5 ms 10-Link®, device ID 4 5 pin 4 12x1 Puls Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 9 5-6 Pneumatic connection 1 9 6-6 Pneumatic connection 1 NBR Female nozzle material POM Sintered steel Housing material Die-cast aluminum		0 °C50 °C
Product weight 325 g Pressure measuring range 1-1 bar0 bar Protocol 10-Link® 10-Link® 10-Link® 10-Link® 10-Link®, profite Smart sensor profile Smart sensor profile 10-Link®, function classes Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel 10-Link®, profite COM2 (38,4 kBd) 10-Link®, process data with OUT 1 style 10-Link®, process data width OUT 1 style 10-Link®, process data width OUT 1 style 10-Link®, process data width NOT 1 style 10-Link®, process data width NOT 2 style 10-Link®, data memory required 0.5 kB 10-Link®, device ID 0.5 kB	Max. tightening torque	
Pressure measuring range	Product weight	
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IO-Link®, process data width OUT IO-Link®, process data width IN IO-Link®, process data content IN IO-Link®, process data width IN IO-Link®,	IO-Link®, protocol version	Device V 1.1
IO-Link®, function classes Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel IO-Link®, communication mode COM2 (38.4 kBd) IO-Link®, port class A IO-Link®, process data width OUT 1 Byte ID-Link®, process data width OUT 1 bit (ejector pulse ON/OFF) Ibit (wacuum ON/OFF) Ibit (wacuum ON/OFF) Ibit (wacuum ON/OFF) Ibit (wacuum ON/OFF) ID-Link®, process data content IN 2 Byte ID-Link®, process data content IN 2 bit BDC (pressure measurement) 2 bit BDC (pressure measurement) ID-Link®, minimum cycle time 3.5 ms ID-Link®, data memory required O.5 KB ID-Link®, device ID Oxo0003E ID-Link®, device ID Oxo00003E ID-Link®, device ID Oxo00003E ID-Link®, device ID Oxo00003E ID-Link®,		Smart sensor profile
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IO-Link®, process data width OUT	IO-Link®, communication mode	COM2 (38,4 kBd)
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1 bit (vacuum ON/OFF) IO-Link®, process data width IN 2 Byte IO-Link®, process data content IN 14 bit PDV (pressure measurement) 2 bit BDC (pressure monitoring) IO-Link®, minimum cycle time 3.5 ms IO-Link®, data memory required 0.5 KB IO-Link®, device ID 0x00003E Electrical connection 5-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-6 Pneumatic connection 3 QS-8 Vacuum connection 0 QS-6 Note on materials RoHS-compliant Seals material POM Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum Die-cast aluminum POM	IO-Link®, process data width OUT	1 Byte
IO-Link®, process data content IN 14 bit PDV (pressure measurement) 2 bit BDC (pressure monitoring) IO-Link®, minimum cycle time 3.5 ms IO-Link®, data memory required 0.5 KB IO-Link®, device ID Cox00003E Electrical connection 5-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-6 Pneumatic connection 3 QS-8 Vacuum connection QS-6 Note on materials RoHS-compliant Seals material NBR Female nozzle material Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	IO-Link®, process data content OUT	
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IO-Link®, data memory required O.5 KB Oxo0003E Electrical connection For pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 3 QS-6 Pneumatic connection 3 QS-6 Note on materials RoHS-compliant Seals material Female nozzle material Compressed air filter material Housing material Die-cast aluminum	IO-Link®, process data content IN	
IO-Link®, device ID Electrical connection 5-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-6 Pneumatic connection 3 QS-8 Vacuum connection QS-6 Note on materials RoHS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Housing material Die-cast aluminum	IO-Link®, minimum cycle time	3.5 ms
Electrical connection 5-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-6 Pneumatic connection 3 QS-8 Vacuum connection QS-6 Note on materials RoHS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	IO-Link®, data memory required	0.5 KB
Mi2x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-6 Pneumatic connection 3 QS-8 Vacuum connection QS-6 Note on materials RoHS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	IO-Link®, device ID	0x00003E
With internal thread With accessories Pneumatic connection 1 QS-6 Pneumatic connection 3 QS-8 Vacuum connection QS-6 Note on materials RoHS-compliant Seals material NBR Female nozzle material Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	Electrical connection	M12x1
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Vacuum connection QS-6 Note on materials RoHS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	Pneumatic connection 1	QS-6
Note on materials Seals material NBR Female nozzle material Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	Pneumatic connection 3	QS-8
Seals material NBR Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	Vacuum connection	QS-6
Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	Note on materials	·
Compressed air filter material Fabric PA Sintered steel Housing material Die-cast aluminum	Seals material	NBR
PA Sintered steel Housing material Die-cast aluminum	Female nozzle material	РОМ
Housing material Die-cast aluminum	Compressed air filter material	PA
	Housing material	Die-cast aluminum

Feature	Value
Material of adjusting screw	Steel
Muffler material	Wrought aluminum alloy PU foam
Material of screws	Steel
Material of plug housing	Brass, nickel-plated
Material of pins	Steel
Material of jet nozzle	Wrought aluminum alloy
Material of pneumatic fitting	Brass, nickel-plated