Solenoid valve VSVA-B-M52-MZTR-A2-1T1L-APP

Part number: 8033460







Data sheet

Feature	Value
Valve function	5/2-way, monostable
Type of actuation	Electric
Construction width	18 mm
Standard nominal flow rate	550 l/min
pneumatic working port	Sub-base size 18 mm to ISO 15407-2 G1/8
Operating pressure	-0.09 MPa1 MPa -0.9 bar10 bar
Design	Piston gate valve
Type of reset	Mechanical spring
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive
Degree of protection	IP65 NEMA 4
Nominal size	5 mm
Exhaust-air function	With flow control option Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	optional
Manual override	Detenting via accessory Non-detenting
Type of piloting	Pilot actuated
Pilot air supply	External
Flow direction	Non-reversible
Measuring principle	Inductive
lap	Positive overlap
Reverse polarity protection sensor	For all electrical connections
Signal status display	LED
Switching position sensing	Normal position via sensor
Switching status display sensor	LED
Pilot pressure	0.3 MPa1 MPa 3 bar10 bar

Flow rate of valve on individual sub-base 750 [min	Feature	Value
Valve flow rate, pneumatically incled, flow optimized 700 l/min Flow rate of pneumatically interlined valve 550 l/min Switching time on 12 ms Switching time on 22 ms Valve - sensor switching time onf 9 ms Duty cycle 100% Max, positive test pulse with 0 signal 1500 µs Max, positive test pulse with 1 signal 800 µs Nominal operating voltage DC 24 V Switching dupper PNP Characteristic coil data 24 V DCC. 1.6 W Immunolity to surge 2.5 kW Pollution degree 3 Premissible voltage fluctuations -/-10 % Operating medium Compressed air to ISO 8573-1:2010 [7:44] Note on operating and pilot medium Lubricated operation possible 0n which case lubricated operation will abarbacted operation resistance Shock resistance Transport application test with severity level 2 to FN 942017-6 and EN 60068-2 a Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2 a Shock resistance class CRC 0 No corrosion stress Lass Gewilso Conformity VMA22364-81762-1 M	Flow rate of valve	750 l/min
Flow rate of pneumatically interflinked volve \$50 l/min \$8 ms \$9 ms	Flow rate of valve on individual sub-base	600 l/min
Switching time off 38 ms 12 ms Switching time on 12 ms 12	Valve flow rate, pneumatically linked, flow optimized	700 l/min
Switching time on 12 ms Valves - sensor switching time on 32 ms Valves - sensor switching time off 9ms Duty cycle 100% Max. negative test pulse with 0 signal 1500 μs Max. negative test pulse with 1 signal 800 μs Nominal operating voltage DC 24 V Switching output PMP Characteristic coil data 24 V DC: 1.6 W Immunity to surge 2.5 kW Pollution degree 3 Permissible voltage fluctuations -/- 10 % Operating medium Compressed air to ISO 8373-1:2010 [7:44] Note on operating and pilot medium Universate operation possible (in which case lubricated operation will always be required) Vibration resistance Transport application test with severity level 2 to FN 942017-4 and EN 60068-2 of Notes the strict severity level 2 to FN 942017-5 and EN 60068-2 of Notes the strict severity level 2 to FN 942017-5 and EN 60068-2 of Notes the strict severity level 2 to FN 942017-5 and EN 60068-2 of Notes the strict severity level 2 to FN 942017-5 and EN 60068-2 of Notes the severity level 2 to FN 942017-5 and EN 60068-2 of Notes the severity level 2 to FN 942017-5 and EN 60068-2 of Notes the severity level 2 to FN 942017-5 and EN 60068-2 of Notes the severity level 2 to FN 942017-5 and EN 60068-2 of Notes the severity level 2 to FN 942017-5 and EN 60068-2 of Notes the sever	Flow rate of pneumatically interlinked valve	550 l/min
Valve - sensor switching time on 32 ms Valve - sensor switching time off 9 ms Duty cycle 100% Max, positive test pulse with o signal 1500 µs Morninal operating voltage DLC 24 V Switching output PNP Characteristic coil data 24 V DC: 1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations -/ 10 % Operating medium Compressed air to 150 8573-12010 [7:44] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will sharps be required) Vibration resistance Tonsport application test with severity level 2 to Tn 942017-4 and EN 6066-2-6 Shock resistance Shock test with severity level 2 to Tn 942017-5 and EN 60068-2-6 Corrosion resistance class CRC 0 - No corrosion stess Corrosion resistance class CRC 0 - No corrosion stess LABS (PWIS) conformity VDMA-2646-81/82-1 Media temperature 5 °C.,50 °C Relative air humidity 0 - 90% Sound pressure level 85 dB(A) Max. sightening torque for valve mou	Switching time off	38 ms
Valve - sensor switching time on 32 ms Valve - sensor switching time off 9 ms Duty cycle 100% Max, positive test pulse with o signal 1500 µs Morninal operating voltage DLC 24 V Switching output PNP Characteristic coil data 24 V DC: 1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations -/ 10 % Operating medium Compressed air to 150 8573-12010 [7:44] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will sharps be required) Vibration resistance Tonsport application test with severity level 2 to Tn 942017-4 and EN 6066-2-6 Shock resistance Shock test with severity level 2 to Tn 942017-5 and EN 60068-2-6 Corrosion resistance class CRC 0 - No corrosion stess Corrosion resistance class CRC 0 - No corrosion stess LABS (PWIS) conformity VDMA-2646-81/82-1 Media temperature 5 °C.,50 °C Relative air humidity 0 - 90% Sound pressure level 85 dB(A) Max. sightening torque for valve mou		12 ms
Valve - sensor switching time off 9 ms Duty cycle 100% Max. positive test pulse with 0 signal 1500 µs Max. positive test pulse with 1 signal 800 µs Nominal operating voltage DC 24 V Switching output PNP Characteristic coll data 24 VDC: 1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations +/ 10 % Operating medium Compressed at rol 150 8573+1:2010 [7:44] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Vibration resistance Transport application test with severity level 2 to FN 942017-5 and EN 60068-2:27 Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2:27 Corrosion resistance class CRC 0 -No corrosion stress Corrosion resistance class CRC 0 -No corrosion stress LABS (PWIS) conformity VDMA246-B1/B2-L Media temperature -5 *C50 *C Sound pressure		32 ms
Duty cycle 100% 1500 μs 150		9 ms
Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal 800 μs Max. negative test pulse with 1 signal 800 μs Nominal operating voltage DC Switching output PNP Characteristic coil data 2a V DC: 1.6 W Immunity to surge 2.2 kW Pollution degree 3 Permissible voltage fluctuations 4./ 10 % Pollution degree 3 Permissible voltage fluctuations 4./ 10 % Pollution degree 7./ 10 % Pollution degree 7./ 10 % Pollution degree 8./ 10 % Pollution degree 8./ 10 % Pollution degree 9./ 10 % Pollution degree 10 % Pollution degree 9./ 10 % Pollutio		100%
Max. negative test pulse with 1 signal Nominal operating voltage DC 22 V Switching output PNP Characteristic coil data 24 V DC: 1.6 W Immunity to surge 2, Sk V Pollution degree 3 Permissible voltage fluctuations -/-10 % Operating medium Compressed air to 150 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operating possible (in which case lubricated operation will always be required) Vibration resistance To substance Shock resistance Shock test with severity level 2 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-7 Corosion resistance class CRC O-No corrosion stress LABS (PWIS) conformity VDMA2364-81/82-1 Media temperature -5° C50° C Relative air humidity O-90% Sound pressure level Anbient temperature -5° C50° C Anbient temperature -5° C50° C Short-circuit strength sensor 10 V30 V Short-circuit strength sensor 10 Pulsed Idle current sensor 10 nm A Max. output current sensor 10 nm A Max. output current sensor 10 plus Residual ripple sensor 20 nm A Max. witching frequency sensor 5000 Hz Residual ripple sensor 10 yluga of possible sensor 10 ylug		1500 μs
Nominal operating voltage DC Switching output PNP PNP Switching output PNP PNP Switching output PNP PNP Switching output PNP PNP PNP Switching output PNP PNP PNP PNP PNP PNP PNP PNP PNP PN		·
Switching output PNP Characteristic coil data 2a V DC:1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations +/-10 % Operating medium Comparing medium passible (in which case lubricated operation will always be required) Note on operating and pilot medium Lubricated operation passible (in which case lubricated operation will always be required) Vibration resistance Financor application test with severity level 2 to FN 942017-4 and EN 60068.2-6 Shock resistance Shock kest with severity level 2 to FN 942017-5 and EN 60068.2-27 Corrosion resistance class CRC 0 No corrosion stress Corrosion resistance class CRC 0 No corrosion stress Card Stream (in the proper stream of the		
Characteristic coll data Immunity to surge 2,5 kV Permissible voltage fluctuations -/-10 % Operating medium Note on operating and pilot medium Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Vibration resistance Transport application test with severity level 2 to FN 942017-4 and EN 600682-2.6 Shock resistance Shock test with severity level 2 to FN 942017-4 and EN 600682-2.6 Corrosion resistance class CRC O-No corrosion stress LABS (PWIS) conformity VDMA24364-81/82-L Media temperature -5 °C50 °C Relative air humidity O-90% Sound pressure level 88 dB(A) Ambient temperature -5 °C50 °C Max. lightening torque for valve mounting OB Nm1.2 Nm Product weight Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor pulsed Idle current sensor 10 mA Max. output current sensor 200 mA Max. woutput current sensor 200 mA Pulsed Idle current sensor 200 mA Max. woutput current sensor 200 mA Max. woutpu		PNP
Pollution degree 3 Permissible voltage fluctuations 4,7 10 % Poerating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Uubricated operating possible (in which case lubricated operation will always be required) Vibration resistance Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-6 Corrosion resistance class CRC 0-No corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Media temperature 5-5°C50°C Relative air humidity 0-90% Sound pressure level 85 dB(A) Ambient temperature 5-5°C50°C Ambient temperature 5-5°C50°C Ambient temperature 5-5°C50°C Ambient temperature 140 g		24 V DC: 1.6 W
Pollution degree 3 Permissible voltage fluctuations 4,7 10 % Poerating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Uubricated operating possible (in which case lubricated operation will always be required) Vibration resistance Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-6 Corrosion resistance class CRC 0-No corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Media temperature 5-5°C50°C Relative air humidity 0-90% Sound pressure level 85 dB(A) Ambient temperature 5-5°C50°C Ambient temperature 5-5°C50°C Ambient temperature 5-5°C50°C Ambient temperature 140 g	Immunity to surge	2.5 kV
Permissible voltage fluctuations	· · · · · · · · · · · · · · · · · · ·	
Operating medium Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Vibration resistance Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock sets with severity level 2 to FN 942017-5 and EN 60068-2-27 Corrosion resistance class CRC O - No corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Media temperature 5 - C 50 - C Relative air humidity 0 - 90% Sound pressure level 85 dB(A) Ambient temperature - 5 - C 50 - C Ambient temperature - 5 - C 50 - C No corrosion stress ON - OC - C - C - C - C - C - C - C		
Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required)	_	·
Vibration resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Ocrrosion resistance class CRC O- No corrosion stress LABS (PWIS) conformity VDMA24364-B1/82-L Media temperature -5°C50°C Relative air humidity O-90% Sound pressure level 85 dB(A) Ambient temperature -5°C50°C Max. tightening torque for valve mounting 0.8 km1.2 km Product weight Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor Pulsed Ide current sensor 10 mA Max. output current sensor 10 mA Max. output current sensor 10 mA Max. output current sensor 200 mA Max. switching frequency sensor 210% Voltage drop sensor 210% Voltage drop sensor 22 V Electrical connection Plugs To ISO 15407-2 Sensor connection Pilot air port 12/14 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5	<u> </u>	Lubricated operation possible (in which case lubricated operation will
Corrosion resistance class CRC 0 - No corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Media temperature -5°C50°C Relative air humidity 0 - 90% Sound pressure level 85 dB(A) Ambient temperature -5°C50°C Max. tightening torque for valve mounting 0.8 Nm1.2 Nm Product weight 140 g Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor 10 mA Max. output current sensor 200 mA Max. switching frequency sensor 200 mA Max. switching frequency sensor 21 V Selectrical connection 24-pin Plugs 70 is 000 Hz Residual ripple sensor 2 V Sensor connection 2Plug 3-pin Max 1 Type of mounting 0n sub-base Pilot air port 12/14 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN
LABS (PWIS) conformity VDMA24364-B1/B2-L Media temperature -5 °C50 °C Relative air humidity 0 - 90% Sound pressure level 85 dB(A) Ambient temperature -5 °C50 °C Max. tightening torque for valve mounting 0.8 Nm1.2 Nm Product weight 140 g Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor 10 mA Idle current sensor 10 mA Max. output current sensor 200 mA Max. switching frequency sensor 200 mA Residual ripple sensor 2 V Voltage drop sensor 2 V Electrical connection 4-pin Plugs of 15407-2 Sensor connection Plug 3-pin M8x1 Vipe of mounting On sub-base Pilot air port 12/14 Sub-base size 18 mm to ISO 15407-2 Pilot exhaust port 82/84 Ducted Not ducted Either: Pricumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2	Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Media temperature 5 °C50 °C Relative air humidity 0 - 90% Sound pressure level 85 dk(A) Ambient temperature 5 °C50 °C Max. tightening torque for valve mounting 0.8 Nm12 Nm Product weight 140 g Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor 10 mA Idle current sensor 200 mA Max. output current sensor 5000 Hz Max. switching frequency sensor 200 mA Residual ripple sensor 2 V Electrical connection 4 pin Plugs To ISO 15407-2 Sensor connection Plug 3-21 mm m m m m m m m m m m m m m m m m m	Corrosion resistance class CRC	0 - No corrosion stress
Media temperature 5 °C50 °C Relative air humidity 0 - 90% Sound pressure level 85 dk(A) Ambient temperature 5 °C50 °C Max. tightening torque for valve mounting 0.8 Nm12 Nm Product weight 140 g Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor 10 mA Idle current sensor 200 mA Max. output current sensor 5000 Hz Max. switching frequency sensor 200 mA Residual ripple sensor 2 V Electrical connection 4 pin Plugs To ISO 15407-2 Sensor connection Plug 3-21 mm m m m m m m m m m m m m m m m m m	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Relative air humidity 0 - 90% Sound pressure level 85 dB(A) Ambient temperature - 5° C50° C Max. tightening torque for valve mounting 0.8 Nm1.2 Nm Product weight 140 g Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor Pulsed Idle current sensor 10 mA Max. output current sensor 200 mA Max. switching frequency sensor 5000 Hz Residual ripple sensor 2 V Slettrical connection 4-pin Plugs 70 ISO 15407-2 Sensor connection 50 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Pheumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Pneumatic connection, port 5		
Sound pressure level 85 dB(A) Ambient temperature -5° C50° C Max. tightening torque for valve mounting 0.8 Nm1.2 Nm Product weight 140 g Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor Pulsed Idle current sensor 10 m A Max. output current sensor 200 mA Max. switching frequency sensor \$000 Hz Residual ripple sensor \$10% Voltage drop sensor 2V Electrical connection \$10 NSO 15407-2 Sensor connection \$10 NSO 15407-2 Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Pheumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Pheumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	· ·	
Ambient temperature 5-5 °C50 °C Max. tightening torque for valve mounting 0.8 Nm1.2 Nm Product weight 140 g Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor Pulsed Idle current sensor 10 mA Max. output current sensor 200 mA Max. witching frequency sensor 5000 Hz Residual ripple sensor 2 V Electrical connection 4-pin Plugs 7 To ISO 15407-2 Sensor connection Plot exhaust port 82/84 Ducted Not ducted Either: Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	·	
Max. tightening torque for valve mounting0.8 Nm1.2 NmProduct weight140 gOperating voltage range, DC sensor10 V30 VShort-circuit strength sensorPulsedIdle current sensor10 mAMax. output current sensor200 mAMax. switching frequency sensor5000 HzResidual ripple sensor± 10%Voltage drop sensor2 VElectrical connection4-pin Plugs To ISO 15407-2Sensor connectionPlug 3-pin M8x1Type of mounting0n sub-basePilot air port 12/14Sub-base size 18 mm to ISO 15407-2Pilot exhaust port 82/84Ducted Not ducted Either:Pneumatic connection, port 1Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 2Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 3Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 4Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 4Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 4Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2	·	· · · · · · · · · · · · · · · · · · ·
Product weight 140 g Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor Pulsed Idle current sensor 10 mA Max. output current sensor 200 mA Max. switching frequency sensor 5000 Hz Residual ripple sensor ± 10% Voltage drop sensor 2 V Electrical connection Plugs To ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	·	0.8 Nm1.2 Nm
Operating voltage range, DC sensor 10 V30 V Short-circuit strength sensor Pulsed Idle current sensor 10 mA Max. output current sensor 200 mA Max. switching frequency sensor 5000 Hz Residual ripple sensor ± 10% Voltage drop sensor 2 V Electrical connection Plugs To ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base size 18 mm to ISO 15407-2 Pilot exhaust port 82/84 Ducted Not ducted Ether: Ether: Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	·	140 g
Short-circuit strength sensorPulsedIdle current sensor10 mAMax. output current sensor200 mAMax. switching frequency sensor5000 HzResidual ripple sensor± 10%Voltage drop sensor2 VElectrical connection4-pin Plugs To ISO 15407-2Sensor connectionPlug 3-pin M8x1Type of mountingOn sub-basePilot air port 12/14Sub-base size 18 mm to ISO 15407-2Pilot exhaust port 82/84Ducted Cither: Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 1Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 2Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 3Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 4Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2		
Idle current sensor10 mAMax. output current sensor200 mAMax. switching frequency sensor5000 HzResidual ripple sensor± 10%Voltage drop sensor2 VElectrical connection4-pin Plugs To ISO 15407-2Sensor connectionPlug 3-pin M8x1Type of mountingOn sub-basePilot air port 12/14Sub-base size 18 mm to ISO 15407-2Pilot exhaust port 82/84Ducted Sither:Pneumatic connection, port 1Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 2Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 3Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 4Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2Pneumatic connection, port 5Sub-base size 18 mm to ISO 15407-2		Pulsed
Max. switching frequency sensor Residual ripple sensor \$10% Voltage drop sensor \$2 V Electrical connection \$4-pin Plugs To ISO 15407-2 Sensor connection \$Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust port 82/84 Ducted Not ducted Either: Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2		10 mA
Max. switching frequency sensor Residual ripple sensor \$10% Voltage drop sensor \$2 V Electrical connection \$4-pin Plugs To ISO 15407-2 Sensor connection \$Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust port 82/84 Ducted Not ducted Either: Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Max. output current sensor	200 mA
Residual ripple sensor 2 V Electrical connection 4-pin Plugs To ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust port 82/84 Pilot exhaust port 82/84 Pneumatic connection, port 1 Pneumatic connection, port 2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5	·	5000 Hz
Voltage drop sensor Electrical connection A-pin Plugs To ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base size 18 mm to ISO 15407-2 Pilot exhaust port 82/84 Ducted Not ducted Either: Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2		± 10%
Plugs To ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust port 82/84 Plug 3-pin M8x1 Ducted Not ducted Either: Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5		2 V
3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base size 18 mm to ISO 15407-2 Pilot exhaust port 82/84 Ducted Not ducted Either: Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Sub-base size 18 mm to ISO 15407-2	Electrical connection	Plugs
Pilot air port 12/14 Pilot exhaust port 82/84 Pilot exhaust port 82/84 Ducted Not ducted Either: Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Sensor connection	3-pin
Pilot exhaust port 82/84 Ducted Not ducted Either: Pneumatic connection, port 1 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 2 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Type of mounting	On sub-base
Not ducted Either: Pneumatic connection, port 1 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Pilot air port 12/14	Sub-base size 18 mm to ISO 15407-2
Pneumatic connection, port 2 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Pilot exhaust port 82/84	Not ducted
Pneumatic connection, port 3 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Pneumatic connection, port 1	Sub-base size 18 mm to ISO 15407-2
Pneumatic connection, port 4 Sub-base size 18 mm to ISO 15407-2 Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Pneumatic connection, port 2	Sub-base size 18 mm to ISO 15407-2
Pneumatic connection, port 5 Sub-base size 18 mm to ISO 15407-2	Pneumatic connection, port 3	Sub-base size 18 mm to ISO 15407-2
	Pneumatic connection, port 4	Sub-base size 18 mm to ISO 15407-2
Note on materials RoHS-compliant	Pneumatic connection, port 5	Sub-base size 18 mm to ISO 15407-2
	Note on materials	RoHS-compliant

Feature	Value
Material seals	FPM NBR
Material housing	Die-cast aluminium PA
Material screws	Galvanised steel
Switching element function	N/C contact