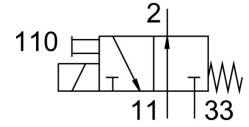
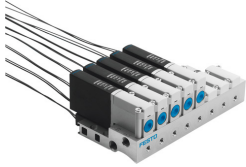


Air solenoid valve MHA2-MS1H-3/20-2-K

Part number: 196141

FESTO



Data sheet

Feature	Value
Valve function	3/2, open, monostable
KC characters	KC EMC
Lap	Underlap
Actuation type	Electrical
Width	10 mm
Standard nominal flow rate	100 l/min
Pneumatic working port	Sub-base
Operating voltage	24V DC
Operating pressure	-0.9 bar ... 8 bar
Design	Pressure-relieved poppet valve
Reset method	Mechanical spring
Degree of protection	IP65
Certification	RCM compliance mark c UL us - Recognized (OL)
Nominal width	2 mm
Width dimension	14 mm
Type code	MH2
Exhaust air function	With flow control option
Sealing principle	Soft
Mounting position	Any
Manual override	Non-detenting
Type of control	Direct
Flow direction	Reversible with restrictions
Symbol	00991322
Reverse polarity protection	Bipolar
Additional functions	Spark suppression Holding current reduction Protective circuit
Operating pressure, reversible	-0.9 bar ... 1 bar
Max. switching frequency	330 Hz
Switching time off	2 ms
On switching time	1.7 ms
Tolerance for switching time off	+10 %/-30 %
Tolerance for ON switching time	+10%/-30%
Switching time variation at 1 Hz and above	0.2 ms
Duty cycle	100%

Feature	Value
Coil characteristics	24 V DC: low-current phase 1.25 W, high-current phase 5.0 W
Permissible voltage fluctuations	+/- 10 %
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
CE marking (see declaration of conformity)	As per EU EMC directive
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Restricted ambient and media temperature	Depending on the switching frequency (see diagram)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Temperature of medium	-5 °C ... 40 °C
Ambient temperature	-5 °C ... 40 °C
Product weight	60 g
Electrical connection	Cable
Cable length	2.5 m
Type of mounting	On sub-base
Pneumatic connection 11	Sub-base
Pneumatic connection 2	Sub-base
Pneumatic connection 33	Sub-base
Note on materials	Free of copper and PTFE RoHS-compliant
Seals material	HNBR NBR
Housing material	Die-cast zinc Coated
Material of cable sheath	PUR
Material of screws	Steel Galvanized