



052933
MCSN22-V

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DELIVERY PROGRAM

Note on use

This product complies with Low-Voltage Directive 2014/35/EC and EMC Directive 2014/30/EC and meets the requirements in EN 60947-5-1. This product does not meet the rail industry's standard requirements. Accordingly, the user must review it separately for the specific application at hand.

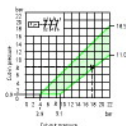
Product range

Pressure switches with main contacts

Degree of Protection IP65

Number of poles 3 pole

**Cut-in pressure and cut-out pressure:
separate stepless adjustment.
All the intersection points within the diagram area can be set.**



Mn. switching differential: 3.0 bar

Example:

Out-out pressure 17.5 bar

Out-in pressure 7.8 bar

With relief valve
For 6 mm Ermeto coupling

Max. operating pressure
25 bar

Notes

Features

:

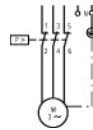
- With terminal cover as standard
- 1 insulated protective conductor terminal (PE)
- 1 insulated N terminal
- 2 cable entry knockouts for M20, without cable gland
- IP65 in conjunction with V-M20 cable gland
- Pressure pipe flange R 1/2"
- please enquire: Pressure pipe flange R 1/4"
- Neoprene membrane

R 1/4" corresponds to G 1/4

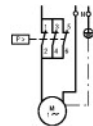
R 1/2" corresponds to G 1/2 as per ISO 228-1

For use as a motor load switch as per IEC/EN 60947-4-1 for:

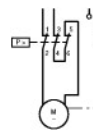
Three-phase current



Single-phase current



Direct current DC-3



For use as control switch:

□

Out-in and cut-out pressures are factory-preset as specified with type suffix □ 203948

Notes

Fitted on right side with Ermeto self-sealing coupling for pipe diameter 6 mm; on request also available fitted on left side.
Order code: **MCSN...VG**

TECHNICAL DATA

General

Standards
IEC/EN 60947-4-1

Test pressure
32 bar

Rupturing pressure
90 bar

Operating frequency [Operations/h]

□ 1500

Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature

-25 - 70

Degree of Protection

IP65

Mounting position

As required

Mechanical shock resistance to IEC 60068-2-27 [Half-sinusoidal shock 20 ms]

> 10 g

Vibration resistance acc. to IEC/EN 60068-2-6 [Amplitude 1 mm]

36 Hz

lifespan [Operations]

0.5×10^6

Terminal capacities

Solid

1 x (0.75 - 2.5)

2 x (0.75 - 1.5) mm²

Terminal capacities

Flexible with ferrules to DIN 46228

1 x (0.5 - 1.5)

2 x (0.5 - 1.5) mm²

Terminations

Flat terminal with clamping washer

Terminal screw

M4

Tightening torque of terminal screw

1.2 Nm

Contacts/switching capacity

Rated impulse withstand voltage [U_{imp}]

4000 V AC

Rated insulation voltage [U_i]

400 V

Overvoltage category/pollution degree

III/3

Max. short-circuit protective device
Fuseless
FKZMD-20 Type

Max. short-circuit protective device
Fuse [gG/gL]
20 A

Type of coordination
1

Rated short-circuit current [I_q (= Current r)]
1 kA

AC-3
Rated operational current
230 V
15 A

AC-3
Rated operational current
400 V
11.5 A

AC-3
Rated power P
230 V
4 kW

AC-3
Rated power P
400 V
5.5 kW

DC-3
Rated operational current
24 V
16 A

DC-3
Rated operational current
110 V
12.5 A

DC-3
Rated operational current
250 V
2 A

Rated frequency [f]
50 Hz

DESIGN VERIFICATION AS PER IEC/EN 61439

Operating ambient temperature min.
-25 °C

Operating ambient temperature max.
+70 °C

TECHNICAL DATA ETIM 7.0

Low-voltage industrial components (EG000017) / Pressure switch (EC000243)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Pressure monitoring equipment (ecl@ss10.0.1-27-37-18-14 [AKF108014])

Suitable as guard
Yes

Suitable as 2-point controller
Yes

Suitable as limiter
No

Max. operation pressure
25000 hPa

Engaging pressure
0 - 18.5 bar

Initial setting
0 - 0 hPa

Switch off pressure
0 - 22 bar

End setting
0 - 0 hPa

Pressure-switching differential
0 bar

Max. test pressure
32 bar

Bursting pressure
90 bar

Medium temperature
25 - 80 °C

Connection
Inner thread gas cylindrical (BSPP)

Thread size
1/2 inch

Rated voltage U_e at AC 50 Hz
0 - 400 V

Rated voltage U_e at AC 60 Hz
0 - 400 V

Rated voltage U_e at DC
0 - 250 V

Initial value measuring range pressure
0 Pa

End value measuring range pressure
0 Pa

Rated operation power at AC-3, 400 V
5.5 kW

Switching capacity at AC-3, 240 V
0 kA

Rated operation current I_e at AC-1, 400 V
0 A

Rated operation current I_e at AC-3, 400 V
11.5 A

Number of auxiliary contacts as normally open contact
0

Number of auxiliary contacts as normally closed contact
0

Number of auxiliary contacts as change-over contact
0

Type of electric connection
Screw connection

Number of normally closed contacts as main contact
3

Number of main contacts as normally open contact
0

Adjustable current range
0 - 0 A

With hand operation
No

With manual on/off switch
No

Electronic version
No

With display
No

Explosion-proof
No

Degree of protection (IP)
IP65

Degree of protection (NEMA)
Other

Height
111 mm

Width
93 mm

Diameter
0 mm

Depth
96 mm

APPROVALS

Product Standards
CSA-CC22.2 No. 14

CSA File No.
12528

CSA Class No.
3211-06

North America Certification
CSA certified

DIMENSIONS



With relief valve



