



**057679**  
**MCSN4**

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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

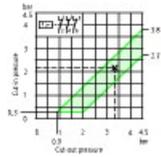
### Degree of Protection

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: 0.6 bar

Example:

Out-out pressure 3.3 bar

Out-in pressure 2.2 bar

Variable switching differential

Max. operating pressure

7 bar

### Notes

Features

:

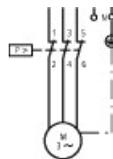
- With terminal cover as standard
- 1 insulated protective conductor terminal □
- 1 insulated N terminal
- 2 cable entry knockouts for M20, without cable gland
- IP65 in conjunction with V-M20 cable gland
- Pressure pipe flange R 1/2"
- please enquire: Pressure pipe flange R 1/4"
- Neoprene membrane

R 1/4" corresponds to G 1/4

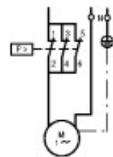
R 1/2" corresponds to G 1/2 as per ISO 228-1

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

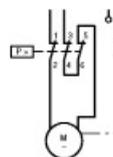
### Three-phase current



### 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

## 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 x 10<sup>6</sup>

Terminal capacities

Solid

1 x (0.75 - 2.5)

2 x (0.75 - 1.5) mm<sup>2</sup>

Terminal capacities

Flexible with ferrules to DIN 46228

1 x (0.5 - 1.5)

2 x (0.5 - 1.5) mm<sup>2</sup>

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 [ $I_c$  (= 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  
7000 hPa

Engaging pressure  
0 - 3.8 bar

Initial setting  
0 - 0 hPa

Switch off pressure  
0 - 4.5 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  
110 mm

Width  
60 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



