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Powering Business Worldwide

MCSN11 - Pressure switch, 3p, 15bar



029203 MCSN11

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## 029203 MCSN11

Pressure switch, 3p, 15bar

Alternate Catalog No.

EL-Nummer (Norway)

IEC EN 60947-5-1, IP65\_x, pressure monitoring of liquid and gaseous media, e. g. compressed air, for switching of loads, make and break pressure: separately adjustable

MCSN11

4356112

### 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

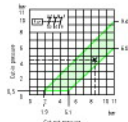
Number of poles

3 pole

Out-in pressure and cut-out pressure:

**separate** stepless adjustment.

All the intersection points within the diagram area can be set.



Min. switching differential: 1.4 bar

Example:

Out-out pressure 8.5 bar

Out-in pressure 4.5 bar

Variable switching differential

Max. operating pressure

15 bar

**Notes**

Features

:

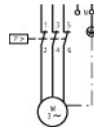
- With terminal cover as standard
- 1 insulated protective conductor terminal (PE)
- 1 insulated N terminal
- 2 cable entry knockouts for M20, without cable gland
- IP65 in conjunction with V-M20 cable gland
- Pressure pipe flange R 1/2"
- please enquire: Pressure pipe flange R 1/4"
- Neoprene membrane

R 1/4" corresponds to G 1/4

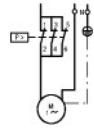
R 1/2" corresponds to G 1/2 as per ISO 228-1

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

## 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 ]

$0.5 \times 10^6$

Terminal capacitiesSolid

1 x (0.75 - 2.5)

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

Terminal capacitiesFlexible 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/sw itching capacity

Rated impulse withstand voltage [ $U_{mp}$ ]

4000 V AC

Rated insulation voltage [ $U_i$ ]

400 V

Overvoltage category/pollution degree

III/3

Max. short-circuit protective deviceFuseless

PKZM0-20 Type

Max. short-circuit protective deviceFuse [gG/gL]

20 A

Type of coordination

1

Rated short-circuit current [ $I_t$  (= Current r)]

1 kA

AC-3Rated operational current230 V

15 A

AC-3Rated operational current400 V

11.5 A

AC-3Rated power P230 V

4 kW

AC-3Rated power P400 V

5.5 kW

DC - 3Rated operational current24 V

16 A

DC - 3Rated operational current110 V  
12.5 A  
DC - 3Rated operational current250 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  
15000 hPa  
Engaging pressure  
0 - 9.4 bar  
Initial setting  
0 - 0 hPa  
Switch off pressure  
0 - 11 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  
15 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

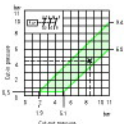
## Approvals

Product Standards  
CSA-CC22.2 No. 14  
CSA File No.  
12528  
CSA Class No.  
3211-06  
North America Certification  
CSA certified

## Dimensions

## Characteristic curve



132U008

Characteristic curve  
Coordinate visualization  
Pressure diagram

## Dimensions single product

- 132X002  
Dimensions single product  
Line drawing  
Pressure switch
- 132X003  
Dimensions single product  
Line drawing  
Compression fitting
- □ 132X007  
Dimensions single product  
Line drawing  
Pressure switch

## 3D drawing

- 132I001  
3D drawing  
Line drawing  
Pressure switch

## Product photo



Photo

Product photo  
Photo  
Pressure switch

## Instruction Leaflet

- Pressure switch (IL05212001Z)

## Declaration of Conformity

- [DA-DC-00002786](#)  
Declaration of Conformity  
(PDF)

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