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Powering Business Worldwide

MCSN4-V - Pressure switch, 3p, 7bar, relief valve



062425 MCSN4-V

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## 062425 MCSN4-V

Pressure switch, 3p, 7bar, relief valve

Alternate Catalog No.

MCSN4-V

EL-Nummer (Norway)

4356115

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, with release valve for 6 mm Ermeto coupling

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Dimensions

### 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

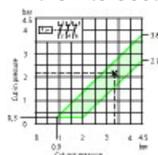
Number of poles

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

With relief valve

For 6 mm Ermeto coupling

Max. operating pressure

7 bar

### Notes

Features

:

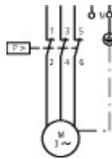
- With terminal cover as standard
- 1 insulated protective conductor terminal □
- 1 insulated N terminal
- 2 cable entry knockouts for M20, without cable gland
- IP65 in conjunction with V-M20 cable gland
- Pressure pipe flange R 1/2"
- please enquire: Pressure pipe flange R 1/4"
- Neoprene membrane

R 1/4" corresponds to G 1/4

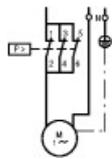
R 1/2" corresponds to G 1/2 as per ISO 228-1

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

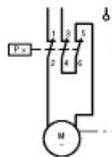
### Three-phase current



### 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

### 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 x 10<sup>6</sup>  
 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/switching capacity  
 Rated impulse withstand voltage [U<sub>imp</sub>]  
 4000 V AC  
 Rated insulation voltage [U ]  
 400 V  
 Overvoltage category/pollution degree  
 III/3  
 Max. short-circuit protective deviceFuseless  
 FKZMD-20 Type  
 Max. short-circuit protective deviceFuse [gG/gL]  
 20 A  
 Type of coordination  
 1  
 Rated short-circuit current [I<sub>k</sub> (= 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  
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<sub>e</sub> at AC 50 Hz  
0 - 400 V  
Rated voltage U<sub>e</sub> at AC 60 Hz  
0 - 400 V  
Rated voltage U<sub>e</sub> 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<sub>e</sub> at AC-1, 400 V  
0 A  
Rated operation current I<sub>e</sub> 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

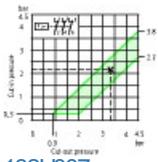
## Approvals

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

## Characteristic curve



132U007

Coordinate visualization  
Pressure diagram

## Dimensions single product

- [132X002](#)  
Line drawing  
Pressure switch
- [132X003](#)  
Line drawing  
Compression fitting
- [132X009](#)  
Line drawing  
Pressure switches

## 3D drawing

- [132I002](#)  
Line drawing  
Pressure switch

## Product photo



132A013

Photo  
Pressure switch

## Instruction Leaflet

- [MCS..., MCSN... Pressure Switches \(IL05212001Z\)](#)  
Asset  
former AWA132-132  
(PDF, 10/2020, multilingual)

## Declaration of Conformity

### UK

- [Pressure switch \(with main contacts\) \(DA-DC-00003969\)](#)  
Asset  
(PDF)

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