Powering Business Worldwide

MCSN16 - Pressure switch, 3p, 25bar

038695 MCSN16

Overview Specifications Resources

038695 MCSN16

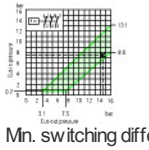
Pressure switch, 3p, 25bar

Alternate Catalog No.	MCSN16
EL-Nummer (Norway)	4356113

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

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.



Min. switching differential: 2.4 bar

Example:

Cut-out pressure 14.5 bar

Cut-in pressure 7.5 bar

Variable switching differential
Max. operating pressure
16 bar
Notes
Features

:

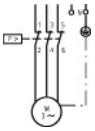
- With terminal cover as standard
- 1 insulated protective conductor terminal
- 1 insulated N terminal
- 2 cable entry knockouts for M20, without cable gland
- IP65 in conjunction with V-M20 cable gland
- Pressure pipe flange R½"
- please enquire: Pressure pipe flange R¼"
- Neoprene membrane

R¼" corresponds to G¼

R½" corresponds to G½ as per ISO 228-1

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

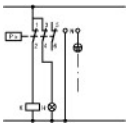
Three-phase current



Single-phase current

Direct current DC-3

For use as control switch:



Cut-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]
0.5×10^6
Terminal capacitiesSolid
1 x (0.75 - 2.5)
2 x (0.75 - 1.5) mm^2
Terminal capacitiesFlexible with ferrules to DIN 46228
1 x (0.5 - 1.5)
2 x (0.5 - 1.5) mm^2
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 deviceFuseless
PKZM0-20 Type
Max. short-circuit protective deviceFuse [gG/gL]
20 A
Type of coordination
1
Rated short-circuit current [I_q (= 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
16000 hPa
Engaging pressure
0 - 13.1 bar
Initial setting
0 - 0 hPa
Switch off pressure
0 - 16 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 Ue at AC 50 Hz
0 - 400 V
Rated voltage Ue at AC 60 Hz
0 - 400 V
Rated voltage Ue 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 Ie at AC-1, 400 V
0 A
Rated operation current Ie 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

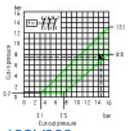
Explosion-proof
No
Degree of protection (IP)
IP65
Degree of protection (NEMA)
Other
Height
110 mm
Width
60 mm
Diameter
0 mm
Depth
96 mm

Approvals

Product Standards
CSA-C22.2 No. 14
CSA File No.
12528
CSA Class No.
3211-06
North America Certification
CSA certified

Dimensions

Characteristic curve

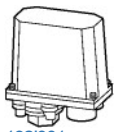
- 

132U009
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)
  Instruction Leaflet
  (PDF, International)

Declaration of Conformity

- DA-DC-00002786
  Declaration of Conformity
  (PDF)

Download-Center

- Download-Center (this item)
  Eaton EMEA Download-Center - download data for this item
- Download-Center
  Eaton EMEA Download-Center

Generate data sheet in PDF format

Generate data sheet in Excel format

Write a comment