Specifications

Eaton 048187



Catalog Number: 048187

Eaton Moeller® series MCS Pressure switch, 3p, 25bar MCSN22

General specifications

Product Name
Eaton Moeller® series MCS Pressure switch

Catalog Number
048187

EAN
4015080481874

Product Length/Depth
96 mm

Product Height
111 mm

Product Width
60 mm

Product Weight
0.467 kg

Certifications
CSA
CSA Class No.: 3211-06
CSA File No.: 012528
IEC/EN 60947-4-1
CSA-CC22.2 No. 14

Catalog Notes
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

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Product specifications

Suitable as

Guard

2-point controller

Features

Variable switching differential

Thread size

1/2 inch

Electric connection type

Screw connection

Operating frequency

1500 Operations/h

Pollution degree

3

Actuator diameter

0 mm

Adjustable current range - max

0 A

Adjustable current range - min

0 A

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-25 °C

Bursting pressure

90 bar

Coordination type

1

End setting - max

0 hPa

End setting - min

0 hPa

End value measuring range pressure

0 Pa

Engaging pressure - max

18.5 bar

Resources

Catalogs

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Characteristic curve

eaton-pressure-switches-diagram-mcs-pressure-switch-characteristic-curve-007.eps

Declarations of conformity

DA-DC-00004628.pdf

DA-DC-00004633.pdf

Drawings

eaton-pressure-switches-switch-mcs-pressure-switch-dimensions-004.eps

eaton-pressure-switches-mcs-pressure-switch-dimensions.eps

eaton-pressure-switches-switch-mcs-pressure-switch-dimensions.eps

eaton-pressure-switches-switch-mcs-pressure-switch-3d-drawing.eps

Installation instructions

IL05212001Z

mCAD model

mcs_n.stp

mcs_n.dwg

Engaging pressure - min

0 bar

Initial setting - max

0 hPa

Initial setting - min

0 hPa

Initial value measuring range pressure

0 Pa

Medium temperature - max

80 °C

Medium temperature - min

25 °C

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

Climatic proofing

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

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

Degree of protection

IP65

NEMA Other

Rated impulse withstand voltage (Uimp)

4000 V AC

Environmental conditions

Compliant to 2014/35/EC, 2014/30/EC and EN 60947-5-1. Accordingly, the user must review it separately for the specific application at hand.

Connection

Inner thread gas cylindrical (BSPP)

Mounting position

Vertical and 90° in all directions

Rated conditional short-circuit current (Iq)

1 kA

Connection type

Flat terminal with clamping washer

Overvoltage category

III

Lifespan, electrical

500,000 Operations

Number of contacts (normally closed) as main contact

3

Number of main contacts (normally open contact)

0

Operating pressure - max

25000 hPa

Pressure differential

0 bar

Rated frequency - max

50 Hz

Rated insulation voltage (Ui)

400 V

Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V

0 A

Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V

11.5 A

Rated operational power at AC-3, 220/230 V, 50 Hz

4 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

5.5 kW

Rated operational voltage (Ue) at AC - max

400 V

Rated operational voltage (Ue) at AC - min

0 V

Rated operational voltage (Ue) at DC - max

250 V

Rated operational voltage (Ue) at DC - min

0 V

Switch off pressure - max

22 bar

Switch off pressure - min

0 bar

Switching capacity at AC-3, 240 V

0 kA

Test pressure

32 bar

Product category

Pressure switches

Number of poles

Three-pole

Screw size

M4, Terminal screw

Rated operational current (Ie)

2 A at DC-3, 250 V
15 A at AC-3, 230 V
11.5 A at AC-3, 400 V
16 A at DC-3, 24 V
12.5 A at DC-3, 110 V

Shock resistance

10 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms

Short-circuit protection

PKZM0-20, Fuseless

Short-circuit protection rating

Max. 20 A gG/gL, Fuse, Contacts

Terminal capacity (solid)

1 x (0.75 - 2.5) mm²
2 x (0.75 - 1.5) mm²

Terminal capacity (flexible with ferrule)

1 x (0.5 - 1.5) mm², ferrules to DIN 46228
2 x (0.5 - 1.5) mm²

Tightening torque

1.2 Nm, Screw terminals

Vibration resistance

36 Hz, Amplitude 1 mm, (IEC/EN 60068-2-6)



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