Product specifications

Eaton 242209

Catalog Number: 242209

Eaton Moeller series xPole - PLS6/M MCB. PLSM, 1-pole, tripping characteristic: C, rated current In: 32 A, rated switching capacity IEC/EN 60898-1: 10 kA



General specifications

Product Name
Eaton Moeller series xPole - PLS6/M MCB

Catalog Number
242209

EAN
4015082422097

Product Length/Depth
80 mm

Product Height
75 mm

Product Width
17.5 mm

Product Weight
0.118 kg

Compliances
RoHS conform

Powering Business Worldwide

Delivery program

Application

Switchgear for residential and commercial applications

xPole - Switchgear for residential and commercial applications

Number of poles

Single-pole

Number of poles (total)

1

Number of poles (protected)

1

Tripping characteristic

C

Release characteristic

C

Amperage Rating

32 A

Type

Miniature circuit breaker

PLSM

Technical data - electrical

Voltage type

AC

Rated operational voltage (Ue) - max

230 V

Rated insulation voltage (Ui)

440 V

Rated impulse withstand voltage (Uimp)

4 kV

Frequency rating - min

50 Hz

Frequency rating - max

60 Hz

Rated switching capacity (IEC/EN 60898-1)

10 kA

Rated short-circuit breaking capacity (EN 60898) at 230 V

10 kA

Rated short-circuit breaking capacity (EN 60898) at 400 V

10 kA

Rated short-circuit breaking capacity (IEC 60947-2) at 230 V

0 kA

Rated short-circuit breaking capacity (IEC 60947-2) at 400 V

0 kA

Overvoltage category

III

Pollution degree

2

Technical data - mechanical

Width in number of modular spacings

1

Built-in depth

70.5 mm

Degree of protection

IP20

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)

32 A

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

3.7 W

Connectable conductor cross section (solid-core) - min

1 mm²

Connectable conductor cross section (solid-core) - max

25 mm²

Connectable conductor cross section (multi-wired) - min

1 mm²

Connectable conductor cross section (multi-wired) - max

25 mm²

Static heat dissipation, non-current-dependent

0 W

Heat dissipation capacity

0 W

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

75 °C

Design verification as per IEC/EN 61439

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Additional information

Current limiting class

3

Features

Additional equipment possible

Special features

Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity

Used with

Miniature circuit breaker

PLSM

Resources

Catalogs

eaton-xpole-protective-devices-catalog-ca019014en-en-us.pdf

eaton-xpole-pls6-mcb-catalog-ca019065en-en-us.pdf

eaton-xpole-plsm-mcb-catalog-ca019064en-en-us.pdf

Drawings

eaton-xpole-mmc4-6-m-mcb-dimensions.jpg

eaton-xpole-mmc4-6-m-mcb-3d-drawing-007.jpg

Installation instructions

IL019140ZU

Wiring diagrams

eaton-xpole-mmc4-6-m-mcb-wiring-diagram-002.jpg

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

10.8 Connections for external conductors

Is the panel builder's responsibility.

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

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