Specyfikacje

Eaton 242185



Catalog Number: 242185

Eaton Moeller series xPole - PLS6/M MCB. Miniature circuit breaker (MCB), 50 A, 1p, characteristic: B, MW

General specifications

Product Name
Eaton Moeller series xPole - PLS6/M MCB

Catalog Number
242185

EAN
4015082421854

Product Length/Depth
80 mm

Product Height
75 mm

Product Width
17.5 mm

Product Weight
0.119 kg

Compliances
RoHS conform

Model Code
PLSM-B50-MW

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

B

Release characteristic

B

Amperage Rating

50 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)

50 A

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

4.5 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 informationm

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

PLSM

Miniature circuit breaker

Do pobrania

Characteristic curve

eaton-xpole-mmc4-6-m-mcb-characteristic-curve.jpg

KL_L7_B

Deklaracje zgodności

DA-DC-03_PLS

DWG

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

Mas_PLSM

DWG

PLSM_i2t_b

eaton-xpole-mmc4-6-m-mcb-3d-drawing-006.jpg

eCAD model

ETN.PLSM-B50-MW.edz

Instrukcje montażu

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.

IL019140ZU

Katalogi

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

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

mCAD model

pls_1p.stp

eaton-cadenas-side_view-pls_1p_side.pra

eaton-cadenas-front_view-pls_1p_front.pra

pls_1p.dwg

eaton-cadenas-path-03-geo-pls_1p.3db

PEP Eco-passport

EATO-00046-V01.01-EN

Schematy połączeń

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

© 2025 Eaton. Wszelkie prawa zastrzeżone.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.