Specifications

Eaton 102941

Catalog Number: 102941

Eaton Moeller series xPole - PXF RCCB. Residual current circuit-breaker, 100A, 4pole, 30mA, type R



General specifications

Product Name	**Catalog Number**
Eaton Moeller series xPole - PXF RCCB	102941
EAN	**Product Length/Depth**
4015081027866	80 mm
Product Height	**Product Width**
76 mm	70 mm
Product Weight	**Compliances**
0.386 kg	RoHS conform

Certifications

IEC/EN 61008

Powering Business Worldwide

Product specifications

Used with

KLV-TC-4 276241 (Compact enclosure)
Z-FW/LP 248296 (Remote control and automatic switching device)
Z-RC/AK-4MU 101062 (sealing cover set)

Type

PXF
Residual current circuit breakers
Type R

Special features

Maximum operating temperature is 60 °C:
Starting at 40 °C, the max. permissible continuous current decreases by 1.2% for every 1 °C
Tripping signal contact for subsequent installation Z-NHK 248434

Application

Residual current circuit breakers for radiography applications

Amperage Rating

100 A

Voltage rating

230 V AC / 400 V AC

Features

Residual current circuit breaker
Additional equipment possible

Accessories required

Z-HK 248432

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.

Resources

Declarations of conformity

DA-DC-03_PXF

eCAD model

DA-CE-ETN.PXF-100_4_003-R

Installation instructions

IL019140ZU

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.

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.

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.

Fitted with:

Interlocking device

IS/SPE-1TE 101911

Frame

45 mm

Frequency rating

50 Hz

Pollution degree

2

Mounting Method

Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715

DIN rail

Climatic proofing

25-55 °C / 90-95% relative humidity according to IEC 60068-2

Equipment heat dissipation, current-dependent

18.8 W

Rated impulse withstand voltage (Uimp)

4 kV

Rated short-time withstand current (Icw)

10 kA

Built-in width (number of units)

70 mm (4 SU)

Busbar material thickness

0.8 mm - 2 mm

Short-circuit rating

100 A (max. admissible back-up fuse)

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Terminals (top and bottom)

Open mouthed/lift terminals

Test circuit range

184 V AC - 440 V AC

Ambient operating temperature - max

60 °C

Ambient operating temperature - min

-25 °C

Built-in depth

70.5 mm

Connectable conductor cross section (multi-wired) - max

16 mm²

Connectable conductor cross section (multi-wired) - min

1.5 mm²

Connectable conductor cross section (solid-core) - max

35 mm²

Connectable conductor cross section (solid-core) - min

1.5 mm²

Fault current rating

30 mA

Heat dissipation capacity

0 W

Heat dissipation per pole, current-dependent

0 W

Permitted storage and transport temperature - max

60 °C

Permitted storage and transport temperature - min

-35 °C

Lifespan, mechanical

20000 operations

Degree of protection

IP20

IP20, IP40 with suitable enclosure

Impulse withstand current

Surge-proof, 3 kA

Number of poles

Four-pole

Leakage current type

A

Lifespan, electrical

4000 operations

Functions

Short-time delayed tripping

Sensitivity type

Radiography applications

Rated fault current - max

0.03 A

Rated fault current - min

0.03 A

Rated insulation voltage (Ui)

440 V

Rated operational current for specified heat dissipation (In)

100 A

Rated operational voltage (Ue) - max

400 V

Rated residual making and breaking capacity

500 A

Static heat dissipation, non-current-dependent

0 W

Surge current capacity

0.25 kA

Width in number of modular spacings

4

Voltage type

AC

Terminal capacity (solid wire)

1.5 mm² - 35 mm²

Tripping time

Short time-delayed

Rated short-circuit strength

10 kA

Terminal capacity (stranded cable)

16 mm² (2x)

RAL-number

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Eaton.com/socialmedia