Product specifications

Eaton 286491

Catalog Number: 286491

Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 40A, 300mA, MCB trip curve C, 1pole+N, RCCB trip type: AC, PFL6

General specifications

Product Name
Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection

Catalog Number
286491

EAN
4015082864910

Product Length/Depth
86 mm

Product Height
75 mm

Product Width
37 mm

Product Weight
0.225 kg

Compliances
CE Marked
RoHS conform

Certifications
CE

Model Code
PFL6-40/1N/C/03

Delivery program

Application

Switchgear for residential and commercial applications

Basic function

Combined RCD/MCB devices

Number of poles

Single-pole + N

Number of poles (protected)

1

Number of poles (total)

2

Release characteristic

C

Amperage Rating

40 A

Rated current

40 A

Fault current rating

0.3 A

Type

RCBO

Technical data - electrical

Voltage type

AC

Voltage rating

230 V

Rated operational voltage (Ue) - max

230 V

Rated insulation voltage (Ui)

440 V

Rated impulse withstand voltage (Uimp)

4 kV

Frequency rating

50 Hz

Leakage current type

AC

Rated short-circuit breaking capacity (EN 60947-2)

0 kA

Rated short-circuit breaking capacity (EN 61009)

6 kA

Rated short-circuit breaking capacity (EN 61009-1)

6 kA

Rated short-circuit breaking capacity (IEC 60947-2)

0 kA

Surge current capacity

0.25 kA

Disconnection characteristic

Undelayed

Overvoltage category

III

Pollution degree

2

Technical data - mechanical

Width in number of modular spacings

2

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)

40 A

Built-in depth

69.5 mm

Degree of protection

IP20

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

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

9.4 W

Static heat dissipation, non-current-dependent

0 W

Heat dissipation capacity

0 W

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

40 °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

Additional information

Current limiting class

3

Features

Concurrently switching N-neutral

Resources

Catalogs

eaton-xpole-pfl6-rcbo-catalog-ca019046en-en-us.pdf

eaton-xpole-pfl7-rcbo-catalog-ca019045en-en-us.pdf

User guides

IL019140ZU

eaton-xpole-combined-mcb-rcd-device-rcbo-packaging-manual-multilingual.pdf

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.

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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