

Eaton EMCH145R30C

Catalog Number: EMCH145R30C

Digital RCD/MCB combination, 45A, 30mA, LS-Kennlinie: C, 1p, FI-Char: A (eRBM-45/1/C/003-A)

General specifications



Product Name

Eaton Moeller series xPole - eRB6/M
RCBO - residual-current circuit breaker
with overcurrent protection

Catalog Number

EMCH145R30C

Model Code

eRBM-45/1/C/003-A

EAN

4015081489411

Product Length/Depth

216 mm

Product Height

72 mm

Product Width

17.5 mm

Product Weight

0.206 kg

Compliances

RoHS conform

Product specifications

10.11 Short-circuit rating

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

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.12 Electromagnetic compatibility

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

Current limiting class

3

10.2.5 Lifting

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

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

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

0 kA

Frequency rating

50/60 Hz

10.8 Connections for external conductors

Is the panel builder's responsibility.

Number of poles (total)

1

Fault current rating

0.03 A

Ambient operating temperature - max

40 °C

Built-in depth

69.5 mm

Connectable conductor cross section (solid-core) - min

1 mm²

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Number of poles

Single-pole

Ambient operating temperature - min

Resources

Catalogues

[eaton-xpole-erb6/m-dimensions.jpg](#)

[eaton-xpole-erb6-rcbo-catalog-ca019049en-en-us.pdf](#)

[eaton-xpole-erb6-au-rcbo-catalog-ca019052en-en-us.pdf](#)

Certification reports

[03_eRB_220620](#)

[DA-DC-03_eRB](#)

Installation instructions

[MA120500735.pdf](#)

[IL019095ZU](#)

[eaton-xpole-combined-mcb-rcd-device-rcbo-packaging-manual-multilingual.pdf](#)

Wiring diagrams

[eaton-xpole-erb6/m-wiring-diagram.jpg](#)

-25 °C

10.6 Incorporation of switching devices and components

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

10.5 Protection against electric shock

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

10.13 Mechanical function

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

10.2.6 Mechanical impact

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

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

Application

Switchgear for residential and commercial applications

10.3 Degree of protection of assemblies

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

Voltage type

AC

Number of poles (protected)

1

Leakage current type

A

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

10 kA

Operating ambient temperature - min

-25 °C

Release characteristic

C

Width in number of modular spacings

1

Power loss

14.1 W

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.

Rated short-circuit breaking capacity (EN 61009)

10 kA

Operating ambient temperature - max

40 °C

Voltage rating

240 V - 240 V

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Connectable conductor cross section (solid-core) - max

25 mm²

Degree of protection

IP20

Overvoltage category

III

Pollution degree

2

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Connectable conductor cross section (multi-wired) - min

1 mm²

Rated impulse withstand voltage (Uimp)

4 kV

10.10 Temperature rise

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

Basic function

Combined RCD/MCB devices

Rated current

45 A

Connectable conductor cross section (multi-wired) - max

25 mm²

Type

RCBO

10.2.2 Corrosion resistance

Meets the product standard's requirements.

Surge current capacity

0.25 kA

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.7 Inscriptions

Meets the product standard's requirements.

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

0 kA

Disconnection characteristic

Undelayed

Product application

Switchgear for residential and commercial applications

Rated operational voltage (Ue) - max

240 V

Rated insulation voltage (Ui)

500 V



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