

Eaton EAM404H

Catalog Number: EAM404H

Eaton Moeller series xPole UK - EAM RCCB. Residual current circuit-breaker, 40 A, 4pole, 30mA, Type AC

General specifications



Product Name

Eaton Moeller series xPole UK - EAM
RCCB

Catalog Number

EAM404H

Model Code

EAM404H

EAN

5019586123541

Product Length/Depth

80 mm

Product Height

71 mm

Product Width

70 mm

Product Weight

0.346 kg

Compliances

RoHS conform

Certifications

IEC/EN 61008

Delivery program

Application

Switchgear for residential and commercial applications

Number of poles

Four-pole

Tripping time

Non-delayed

Amperage Rating

40 A

Rated short-circuit strength

10 kA with back-up fuse

Fault current rating

30 mA

Sensitivity type

AC current sensitive

Impulse withstand current

Partly surge-proof 250 A

Type

EAM

Residual current circuit breakers

Type AC

Technical data - electrical

Voltage rating

230 V AC / 400 V AC

Rated operational voltage (Ue) - max

400 V

Rated insulation voltage (Ui)

440 V

Rated impulse withstand voltage (Uimp)

4 kV

Rated fault current - min

0.03 A

Rated fault current - max

0.03 A

Frequency rating

50 Hz

Short-circuit rating

63 A (max. admissible back-up fuse)

Leakage current type

AC

Rated residual making and breaking capacity

500 A

Admissible back-up fuse overload - max

25 A gG/gL

Rated short-time withstand current (Icw)

10 kA

Surge current capacity

0.25 kA

Test circuit range

196 V AC - 456 V AC

Pollution degree

2

Lifespan, electrical

4000 operations

Technical data - mechanical

Design verification as per IEC/EN 61439 - technical data

Frame

45 mm

Width in number of modular spacings

4

Built-in width (number of units)

70 mm (4 SU)

Built-in depth

70.5 mm

Mounting Method

IEC/EN 60715 top-hat rail

DIN rail

Degree of protection

IP40, IP54 (with moisture-proof enclosure)

IP20

Terminals (top and bottom)

Box clamp

Terminal capacity (solid wire)

1.5 mm² - 35 mm²

Connectable conductor cross section (solid-core) - min

1.5 mm²

Connectable conductor cross section (solid-core) - max

35 mm²

Connectable conductor cross section (multi-wired) - min

1.5 mm²

Connectable conductor cross section (multi-wired) - max

16 mm²

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Busbar material thickness

0.8 mm - 2 mm

Lifespan, mechanical

20000 operations

Permitted storage and transport temperature - min

-35 °C

Permitted storage and transport temperature - max

60 °C

Climatic proofing

Rated operational current for specified heat dissipation (In)

40 A

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

8.8 W

Static heat dissipation, non-current-dependent

0 W

Heat dissipation capacity

0 W

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

60 °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

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

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.

[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.

Additional information

[Features](#)

Additional equipment possible
Residual current circuit breaker

[Fitted with:](#)

Resources

[Application notes](#)

[eaton-rcd-application-guide-br019003en-en-us.pdf](#)

[Catalogues](#)

[eaton-xpole-accessories-ca019015en-en-us.pdf](#)

Interlocking device

[eaton-protective-devices-catalog-ca20190603-en-us.pdf](#)

Special features

Maximum operating temperature is 60 °C: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C

Certification reports

[DA-DC-03_EAM](#)

[03_EAM_181019](#)

[DA-DC-03_EAM_020616](#)

Used with

Residual current circuit breakers

EAM

Type AC



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