

Eaton EAM802H

Catalog Number: EAM802H

Eaton Moeller series xPole UK - EAM RCCB. Residual current circuit-breaker, 80 A, 2-pole, 30mA, Type AC, H

General specifications

Product Name	Catalog Number
Eaton Moeller series xPole UK - EAM RCCB	EAM802H
	Model Code
	EAM802H
EAN	Product Length/Depth
5019586123305	80 mm
Product Height	Product Width
71 mm	35 mm
Product Weight	Compliances
0.233 kg	RoHS conform
Certifications	
IEC/EN 61008	



Product specifications

Rated operational current for specified heat dissipation (In)

80 A

10.11 Short-circuit rating

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

Permitted storage and transport temperature - min

-35 °C

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.

Mounting Method

IEC/EN 60715 top-hat rail

DIN rail

Amperage Rating

80 A

10.2.5 Lifting

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

Rated fault current - max

0.03 A

Test circuit range

196 V AC - 264 V AC

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

Tripping time

Non-delayed

Fitted with:

Interlocking device

Rated residual making and breaking capacity

800 A

Frequency rating

50 Hz

10.8 Connections for external conductors

Is the panel builder's responsibility.

Resources

Application notes

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

Catalogs

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

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

Certification reports

[DA-DC-03_EAM](#)

[03_EAM_181019](#)

[DA-DC-03_EAM_020616](#)

Fault current rating

30 mA

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

Special features

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

Sensitivity type

AC current sensitive

Ambient operating temperature - max

60 °C

Heat dissipation per pole, current-dependent

0 W

Climatic proofing

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

Built-in depth

70.5 mm

Short-circuit rating

63 A (max. admissible back-up fuse)

Features

Additional equipment possible
Residual current circuit breaker

Lifespan, electrical

4000 operations

Connectable conductor cross section (solid-core) - min

1.5 mm²

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Number of poles

Two-pole

Terminal capacity (solid wire)

1.5 mm² - 35 mm²

Ambient operating temperature - min

-25 °C

10.6 Incorporation of switching devices and components

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

Rated short-circuit strength

10 kA with back-up fuse

10.5 Protection against electric shock

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

Used with

EAM

Residual current circuit breakers

Type AC

Equipment heat dissipation, current-dependent

8.6 W

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.

Static heat dissipation, non-current-dependent

0 W

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

Leakage current type

AC

Frame

45 mm

Built-in width (number of units)

35 mm (2 SU)

Terminals (top and bottom)

Box clamp

Heat dissipation capacity

0 W

Impulse withstand current

Partly surge-proof 250 A

Width in number of modular spacings

2

Busbar material thickness

0.8 mm - 2 mm

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.

Lifespan, mechanical

20000 operations

Voltage rating

230 V AC

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Connectable conductor cross section (solid-core) - max

35 mm²

Degree of protection

IP40, IP54 (with moisture-proof enclosure)

IP20

Rated short-time withstand current (I_{cw})

10 kA

Pollution degree

2

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Connectable conductor cross section (multi-wired) - min

1.5 mm²

Rated impulse withstand voltage (U_{imp})

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.

Connectable conductor cross section (multi-wired) - max

16 mm²

Type

EAM

Residual current circuit breakers

Type AC

10.2.2 Corrosion resistance

Meets the product standard's requirements.

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.

Surge current capacity

0.25 kA

Permitted storage and transport temperature - max

60 °C

Admissible back-up fuse overload - max

25 A gG/gL

Rated fault current - min

0.03 A

Rated operational voltage (Ue) - max

230 V

Rated insulation voltage (Ui)

440 V