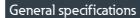
Eaton 167709



Eaton Moeller series xEffect - FRCmM-NA RCCB. Residual current circuit breaker (RCCB), 40A, 4p, 300mA, type G/A, UL, 110V



Product Name

Eaton Moeller series xEffect - FRCmM-

NA RCCB

EAN

FAT-N

4015081642496

Product Height

71 mm

Product Weight

0.32 kg

Certifications

UL 1053 ÖVE E 8601 IEC/EN 61008 EN45545-2 IEC 61373 Catalog Number

- 167709

Model Code

FRCMM-40/4/03-G/A-NA-110

Product Length/Depth

80 mm

Product Width

70 mm

Compliances

RoHS conform

Catalog Notes

Additionally protects against special forms of residual pulsating DC which

have not been smoothed.



FRCmM-40/4/03-G/A-NA-110

defaultTaxonomyAttributeLabel

Type

Current test marks as per

inscription

Maximum operating

temperature is 75 °C:

Starting at 40 °C, the max.

permissible continuous

current decreases by 2.5%

for every 1 °C

The maximum operating

current of back-up fuse must

not exceed the residual

current circuit breaker's

rated operational current

Special features

FRCmM-NA-110

Residual current circuit

breakers

Type G/A (ÖVE E 8601)

Application

Switchgear for 110-V systems

Amperage Rating

40 A

Features

Additional equipment possible

Residual current circuit breaker

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.

Resources

Application notes

eaton-rcd-application-guide-br019003en-en-us.pdf

Brochures

UL 1053 DIN Rail RCCB

Catalogs

Eaton's Volume 4—Circuit Protection

eaton-xeffect-frcmm-na-rccb-catalog-ca003019en-en-us.pdf

eaton-xeffect-industrial-switch gear-range-catalog-ca003002en-en-us.pdf

Certification reports

DA-DC-03_FRCm

Drawings

eaton-circuit-breaker-xeffect-frcmm-na-rccb-dimensions.eps

eCAD model

ETN.FRCMM-40_4_03-G_A-NA-110.edz

Installation instructions

MA180503312

mCAD model

eaton-f9_ul1053_4p-drawing.dwg

eaton-f9_ul1053_4p-3-d-model.stp

Specifications and datasheets

Eaton Specification Sheet - 167709

Wiring diagrams

eaton-xeffect-frcmm-rccb-wiring-diagram-002.jpg

eaton-circuit-breaker-xeffect-fromm-rccb-wiring-diagram-002.eps

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 Frame 45 mm Frequency rating 50 Hz / 60 Hz Pollution degree 2 Used with Type G/A (VE E 8601) Residual current circuit breakers FRCmM-NA-110 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 13.1 W Rated impulse withstand voltage (Uimp) 4 kV Rated short-time withstand current (Icw) 10 kA Admissible back-up fuse overload - max 40 A gG/gL Ambient humdity range 5 - 95 % Built-in width (number of units) 70 mm (4 SU) Short-circuit rating Max. admissible back-up fuse: 63 A gG/gL, 70 A class J fuse

Status indication White / blue

(UL)

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274 Terminals (top and bottom) Lift terminals Test circuit range 100 V AC - 210 V AC, 94 V AC - 230 V AC (UL) Ambient operating temperature - max 40 °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 Connectable conductor cross section (solid-core) - min 1.5 mm² Fault current rating 300 mA Heat dissipation per pole, current-dependent 3.275 W Overvoltage tested - max 530 V Permitted storage and transport temperature - max 60 °C Permitted storage and transport temperature - min -35 °C Contact position indicator color Red / green Mounting position As required Lifespan, mechanical 10000 operations Degree of protection

IP20, IP40 with suitable enclosure

110/190 V

Voltage rating (UL)

208/120 V, 60 Hz

Voltage type

AC

Terminal capacity (solid wire)

1.5 mm² - 35 mm²

Tripping time

8 ms delay at 60 Hz Short time-delayed 10 ms delay at 50 Hz

Rated short-circuit strength

10 kA with back-up fuse 5 kA (UL, as per CSA)

Terminal capacity (stranded cable)

16 mm² (2x)

RAL-number

7035



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