

# Eaton 194694

Catalog Number: 194694

Eaton Moeller series xPole - HNC RCCB. HNC, 4 pole, In: 40 A, Icn: 6 kA, IΔN: 0.03 A, Type AC, residential and commercial



## General specifications

Product Name	Catalog Number
Eaton Moeller series xPole - HNC RCCB	194694
Model Code	EAN
HNC-40/4/003	9010238060845
Product Length/Depth	Product Height
80 mm	76 mm
Product Width	Product Weight
70 mm	0.298 kg
Compliances	Certifications
RoHS conform	IEC/EN 61008

## Delivery program

### Application

Residual current circuit breaker for residential and commercial applications  
xPole Home - Switchgear for residential applications

### Number of poles

Four-pole

### Tripping time

Non-delayed

### Amperage Rating

40 A

### Rated short-circuit strength

6 kA

### Fault current rating

30 mA

### Sensitivity type

AC current sensitive

### Impulse withstand current

Partly surge-proof 250 A

### Type

HNC  
Residual current circuit breakers  
Type AC

## Technical data - electrical

### Voltage rating

230 V AC / 400 V AC

### Rated operational voltage (U<sub>e</sub>) - max

230 V

### Rated insulation voltage (U<sub>i</sub>)

440 V

### Rated impulse withstand voltage (U<sub>imp</sub>)

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 (I<sub>cw</sub>)

6 kA

### Surge current capacity

0.25 kA

### Pollution degree

2

## Technical data - mechanical

### Width in number of modular spacings

4

### Built-in width (number of units)

70 mm (4 SU)

## Design verification as per IEC/EN 61439 - technical data

### Rated operational current for specified heat dissipation (I<sub>n</sub>)

40 A

### Heat dissipation per pole, current-dependent

0 W

#### Built-in depth

45 mm

#### Mounting Method

DIN rail

#### Degree of protection

IP20

#### Connectable conductor cross section (solid-core) - min

1.5 mm<sup>2</sup>

#### Connectable conductor cross section (solid-core) - max

35 mm<sup>2</sup>

#### Connectable conductor cross section (multi-wired) - min

1.5 mm<sup>2</sup>

#### Connectable conductor cross section (multi-wired) - max

16 mm<sup>2</sup>

#### Busbar material thickness

0.8 mm - 2 mm

#### Equipment heat dissipation, current-dependent

13.1 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 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

Residual current circuit breaker

Additional equipment possible

### Fitted with:

Interlocking device

### Special features

Maximum operating temperature is 60 °C: Starting at 40 °C, the max. permissible continuous current decreases by 2.5% for every 1 °C

### Used with

HNC

Residual current circuit breakers

Type AC

## Resources

### Brochures

[eaton-xPole-home-leaflet-br003019en-en-gb.pdf](#)

### Catalogues

[eaton-xpole%20home-hnc-rccb-catalog-ca019024en-en-us.pdf](#)

### Certification reports

[DA-DC-03\\_HNC](#)

[HNC\\_EN.pdf](#)

[03\\_hnc\\_191119.pdf](#)

### Drawings

[eaton-xpole-hnc-rccb-dimensions.jpg](#)

[eaton-xpole-pkn6-m-3d-drawing.jpg](#)

### eCAD model

[ETN.HNC-40\\_4\\_003.edz](#)

### Wiring diagrams

[eaton-xeffect-frcmm-rccb-wiring-diagram-002.jpg](#)



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