

# Eaton 278801

Catalog Number: 278801

Eaton Moeller series xEffect - FAZ MCB. Miniature circuit breaker (MCB), 32 A, 2p, characteristic: K



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller series xEffect - FAZ MCB	278801
<b>EAN</b>	<b>Product Length/Depth</b>
4015082788018	80 mm
<b>Product Height</b>	<b>Product Width</b>
75.5 mm	36 mm
<b>Product Weight</b>	<b>Compliances</b>
0.237 kg	UL CSA09 (with supplementary protector only) RoHS conform
<b>Certifications</b>	<b>Model Code</b>
UL (File No. E177451) North America (UL recognized, CSA certified) CSA-C22.2 No. 235 CSA (Class No. 3215-30) CSA (File No. 204453) IEC/EN 60947-2 UL (Category Control Number QVNU2, QVNU8) CE marking IEC/EN 60898 UL 1077 EN45545-2 IEC 61373	FAZ-K32/2

## Delivery Programme

### Application

Branch circuits, not as  
BCPD  
Switchgear for industrial and  
advanced commercial  
applications  
xEffect - Switchgear for  
industrial and advanced  
commercial applications

### Number of poles

Two-pole

### Number of poles (total)

2

### Number of poles (protected)

2

### Tripping characteristic

K

### Release characteristic

K

### Amperage Rating

32 A

### Type

FAZ  
Miniature circuit breaker

## Technical data - electrical

### Voltage type

AC

### Voltage rating

240 V AC / 415 V AC

### Voltage rating at DC

60 V DC (per pole)

### Voltage rating (UL CSA 13)

480 Y/277 V AC; 96 V DC

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

400 V

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

440 V

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

4 kV

### Frequency rating - min

50 Hz

### Frequency rating - max

60 Hz

### Rated switching capacity (IEC/EN 60947-2)

10 kA

### Operational switching capacity

7.5 kA

### Rated short-circuit breaking capacity (EN 60898) at 230 V

0 kA

### Rated short-circuit breaking capacity (EN 60898) at 400 V

0 kA

### Rated short-circuit breaking capacity (IEC 60947-2) at 230 V

10 kA

### Rated short-circuit breaking capacity (IEC 60947-2) at 400 V

10 kA

### Admissible back-up fuse - max

125 A gL/gG

### Selectivity class

3

### Overvoltage category

III

Pollution degree

2

Lifespan, electrical

10000 operations

Direction of incoming supply

As required

## Technical data - mechanical

Frame

45 mm

Enclosure width

80 mm

Width in number of modular spacings

2

Built-in depth

70.5 mm

Mounting width per pole

17.5 mm

Mounting width

17.5 mm

Mounting Method

Top-hat rail IEC/EN 60715

Mounting position

As required

Degree of protection

IP40 (when fitted)

IP20 (IEC)

IP20

UL/CSA Type: -

Terminals (top and bottom)

Twin-purpose terminals

Connectable conductor cross section (solid-core) - min

1 mm<sup>2</sup>

Connectable conductor cross section (solid-core) - max

25 mm<sup>2</sup>

Connectable conductor cross section (multi-wired) - min

1 mm<sup>2</sup>

Connectable conductor cross section (multi-wired) - max

25 mm<sup>2</sup>

Terminal capacity of screw terminals for main cable

10 mm<sup>2</sup> (2x)

Terminal capacity (control cable)

25 mm<sup>2</sup> (1x)

Terminal protection

Finger and hand touch safe, DGUV VS3, EN 50274

#### Busbar material thickness

0.8 mm - 2 mm

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

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

32 A

#### Heat dissipation per pole, current-dependent

0 W

#### Equipment heat dissipation, current-dependent

6.2 W

#### Static heat dissipation, non-current-dependent

0 W

#### Heat dissipation capacity

0 W

#### Ambient operating temperature - min

-25 °C

#### Ambient operating temperature - max

75 °C

## Additional information

#### Current limiting class

3

#### Features

Additional equipment possible

#### Special features

Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity

## Resources

#### Catalogues

[eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf](#)

#### Certification reports

[DA-DC-03\\_FAZ-B-C-D](#)

#### Characteristic curve

[eaton-mcb-characteristic-xeffect-faz-characteristic-curve-005.eps](#)

[eaton-mcb-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-mcb-current-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-mcb-tripping-characteristic-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-mcb-xeffect-faz-characteristic-curve.eps](#)

[eaton-mcb-current-xeffect-faz-characteristic-curve.eps](#)

[eaton-mcb-xeffect-faz-characteristic-curve-003.eps](#)

[eaton-mcb-characteristic-xeffect-faz-characteristic-curve-002.eps](#)

[eaton-xeffect-faz-mcb-characteristic-curve-002.jpg](#)

#### Drawings

[eaton-mcb-xeffect-faz-dimensions-002.eps](#)

[eaton-xeffect-faz-mcb-dimensions-002.jpg](#)

[eaton-xeffect-faz-mcb-3d-drawing-004.jpg](#)

eaton-xeffect-faz-mcb-3d-drawing-013.jpg

eaton-mcb-faz-xeffect-faz-3d-drawing-002.eps

eCAD model

DA-CE-ETN.FAZ-K32\_2

Installation instructions

IL019140ZU

mCAD model

DA-CD-faz\_1pn\_2p

DA-CS-faz\_1pn\_2p

PEP Eco-passport

EATO-00047-V01.01-EN

Wiring diagrams

eaton-mcb-xeffect-faz-wiring-diagram-002.eps

eaton-xpole-mmc4-6-m-mcb-wiring-diagram-003.jpg



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