

# Eaton 187222

Catalog Number: 187222

Eaton Moeller series xPole - AFDD+ Arc Fault Detection Device, 2 poles, C20A, 30mA, type A



## General specifications

| Product Name  | Catalog Number            |
|---|---------------------------|
| Eaton Moeller series xPole - AFDD+ Arc fault detection device | 187222                    |
|   | Model Code                |
|   | AFDD-20/2/C/003-A         |
|   | Product Length/Depth      |
|   | 80 mm                     |
|   | Product Width             |
|   | 52.5 mm                   |
|   | Compliances               |
|   | CE Marked<br>RoHS conform |
|   | Certifications            |
|   | CE                        |

## Product specifications

### Mounting style

Tri-stable slide catch - enables removal from existing busbar combination

### Rated operational current for specified heat dissipation (In)

20 A

### 10.11 Short-circuit rating

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

### Rated switching capacity (IEC/EN 61009)

10 kA

### Rated short-circuit breaking capacity

10 Kilo Ampere

### 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.

### Current limiting class

3

### Frequency

50 Hz

### 10.2.5 Lifting

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

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### Rated short-circuit breaking capacity (EN 60947-2)

0 kA

### 10.8 Connections for external conductors

Is the panel builder's responsibility.

### Fault current rating

0.03 A

### Terminal protection

Busbar tag shroud as per VBG4, ÖVE-EN 6

### Rated voltage auxiliary device

230 V

## Resources

### Brochures

[eaton-afdd-guidance-brochure-br003010en-en-us.pdf](#)

### Catalogs

[eaton-2020-es-emea-uk-pdd-catalogue-update-july-2020.pdf](#)

### Certification reports

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

### Characteristic curve

[eaton-xpole-afdd-characteristic-curve-002.jpg](#)

[eaton-xpole-afdd-characteristic-curve.jpg](#)

### Drawings

[eaton-xpole-afdd-dimensions.jpg](#)

[eaton-xpole-afdd-3d-drawing-004.jpg](#)

[eaton-xpole-afdd-3d-drawing-002.jpg](#)

### eCAD model

[EPLAN P8 file xPole AFDD+](#)

[ETN.AFDD-20\\_2\\_C\\_003-A](#)

### Installation instructions

[IL019125ZU](#)

[IL019126ZU](#)

### Installation videos

[Arc Fault Detection Device - AFDD+](#)

### mCAD model

[afdd.dwg](#)

[afdd.stp](#)

### Technical data sheets

[eaton-afdd-catalog-tech-en-us.pdf](#)

### Wiring diagrams

[eaton-xpole-afdd-wiring-diagram.jpg](#)

#### Built-in width

54 mm

#### Sensitivity type

Pulse-current sensitive

Type A

#### Climatic proofing

IEC/EN 61009

#### Built-in depth

67 mm

#### Degree of protection (built in)

IP40

#### Lifespan, electrical

4000 operations

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### Number of poles

Two-pole

#### 10.6 Incorporation of switching devices and components

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

#### 10.5 Protection against electric shock

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

#### Equipment heat dissipation, current-dependent

8.5 W

#### Tripping characteristic

C

#### Rated switch current auxiliary device

0 A

#### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### Additional equipment attached at delivery

Fire protection switch

#### 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.

#### 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.

#### Current test marks

As per inscription

#### Permissible Storage and Trans Temp. Max

60 °C

#### Leakage current type

A

#### Frame

45 mm

#### Tripping

Non-delayed

#### Test circuit AC

170 - 264 Voltage AC

#### Control voltage type auxiliary equipment

AC

#### Types conform to

IEC/EN 62606

IEC/EN 61009

#### Operating ambient temperature - min

-25 °C

#### Terminals (top and bottom)

Twin-purpose

#### Release characteristic

C

#### Impulse withstand current

Partly surge-proof, 250 A

#### Product range

AFDD

#### Width In Number Of Modular Spacings

3

#### Permissible Storage and Trans Temp. Min

-35 °C

#### 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.

#### Rated short-circuit breaking capacity (EN 61009)

10 kA

#### Lifespan, mechanical

20000 operations

#### Operating ambient temperature - max

40 °C

#### Voltage rating

230 V

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### Degree of protection

IP20

#### Overvoltage category

III

#### Pollution degree

2

#### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

#### Number Of Poles (Numeric)

2

#### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

#### Basic function

Arc fault circuit interrupter

#### Rated Switching Cap (IEC/EN 60898-1)

10 kA

#### Rated current

20 A

#### Type

AFDD+

#### 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.

#### Thickness of busbar material

0.8 - 2 Square Millimeter

#### Device height

80 mm

#### Busbar type

ZV-SS

#### Product application

Switchgear for residential and commercial applications

#### Contact position indicator

red / green

#### Rated current of product range

10-40 Ampere



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