

# Eaton 187227

Catalog Number: 187227

Eaton Moeller series xPole - AFDD+ Arc Fault Detection Device, 2 poles, C25A, 30mA, type AC

## General specifications



### Product Name

Eaton Moeller series xPole - AFDD+ Arc  
fault detection device

### Catalog Number

187227

### Model Code

AFDD-25/2/C/003

### EAN

4015081822768

### Product Length/Depth

80 mm

### Product Height

73 mm

### Product Width

52.5 mm

### Product Weight

0.277 kg

### Compliances

CE Marked  
RoHS conform

### Certifications

CE

## Delivery programme

### Application

Switchgear for residential and commercial applications

### Product range

AFDD

### Basic function

Arc fault circuit interrupter

### Product application

Switchgear for residential and commercial applications

### Number of poles

Two-pole

### Release characteristic

C

### Tripping characteristic

C

### Rated current

25 A

### Rated current of product range

10-40 Ampere

### Fault current rating

0.03 A

### Sensitivity type

Type AC

AC current sensitive

### Type

AFDD+

## Technical data - electrical

### Voltage rating

230 V

### Current test marks

As per inscription

### Impulse withstand current

Partly surge-proof, 250 A

### Frequency

50 Hz

### Leakage current type

AC

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

10 kA

### Rated short-circuit breaking capacity

10 Kilo Ampere

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

0 kA

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

10 kA

### Test circuit AC

170 - 264 Voltage AC

### Tripping

Non-delayed

### Control voltage type auxiliary equipment

AC

### Rated voltage auxiliary device

230 V

### Rated switch current auxiliary device

0 A

### Overvoltage category

III

### Pollution degree

2

### Lifespan, electrical

4000 operations

## Technical data - mechanical

### Frame

45 mm

### Width In Number Of Modular Spacings

3

### Built-in width

54 mm

### Device height

80 mm

### Built-in depth

67 mm

### Mounting style

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

### Degree of protection

IP20

### Degree of protection (built in)

IP40

### Terminals (top and bottom)

Twin-purpose

### Terminal protection

Busbar tag shroud as per VBG4, ÖVE-EN 6

### Permissible Storage and Trans Temp. Min

-35 °C

### Permissible Storage and Trans Temp. Max

60 °C

### Contact position indicator

red / green

### Thickness of busbar material

0.8 - 2 Square Millimeter

### Climatic proofing

IEC/EN 61009

### Lifespan, mechanical

20000 operations

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

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

25 A

### Equipment heat dissipation, current-dependent

6.5 W

## 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

### Current limiting class

3

### Additional equipment attached at delivery

Fire protection switch

### Types conform to

IEC/EN 61009

IEC/EN 62606

## Resources

### Brochures

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

### Catalogues

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

### Certification reports

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

### Characteristic curve

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

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

### Drawings

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

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

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

### eCAD model

[ETN.AFDD-25\\_2\\_C\\_003](#)

### Installation instructions

[IL019126ZU](#)

[IL019125ZU](#)

### Installation videos

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

### mCAD model

[afdd.stp](#)

[afdd.dwg](#)

### Technical data sheets

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

### Wiring diagrams



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