Specifications

# Eaton PXS24S10A002




## Catalog Number: PXS24S10A002

Eaton Moeller series xEffect - PXS24 Electronic Protection Module. Electronic overcurrent protection for 24V DC, fix 10A with tripped signal out-, control in-put, w/o supply terminals

## General specifications

**Product Name**
Eaton Moeller series xEffect - PXS24 current monitoring relay

**Catalog Number**
PXS24S10A002

**EAN**
9010238011267

**UPC**
786689167578

**Product Length/Depth**
127 mm

**Product Height**
93 mm

**Product Width**
18 mm

**Product Weight**
0.118 kg

**Compliances**
UL508
CE
RoHS conform

**Certifications**
EN45545-2
IEC 61373

Powering Business Worldwide

## Product specifications

### Features

Green = OK; Red = Triggered

OFF = Channel not in operation

Two-colored

### 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.

### 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

## Resources

### Brochures

eaton-pxs24-success-story-cs011001en-en-us.pdf

eaton-pdd-railrolling-stock-brochure-br011002en-en-us.pdf

### Catalogs

eaton-xeffect-industrial-switchgear-range-catalog-ca003002en-en-us.pdf

### Declarations of conformity

DA-DC-03_PXS24

### eCAD model

ETN.PXS24S-e10_F_ORT

### Installation instructions

IL019188ZU

MA150501504

### Installation videos

PXS24 - Electronic protection module for 24 VDC | Application

PXS24 - Electronic protection module for 24 VDC | Product

PXS24 - Protect 24 VDC control circuits effectively

### Manuals and user guides

MD019003EN

### mCAD model

pxs24s

pxs24s.stp

### Product notifications

eaton-pxs24-plant-norm-en-us.pdf

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.

### Electric connection type

Plug-in connection

### Special features

Inductive loads: up to 13 A
On/Off/Reset

### Type

Automation engineering 24V

### Amperage Rating

10 A

### Voltage rating

24 VDC (15 VDC - 30 VDC)

### Equipment heat dissipation, current-dependent

1.6 W

### Mounting method

Snap-fit on DIN rail (EN 60715)

### Degree of protection

IP20

Voltage type

DC

Busbar type

LINE (+) and GND (-); max 60A in various lengths of up to 1m

Number of channels

1

Terminal type

Push in terminals

Text field type

17.5 mm x 6 mm

Adjustable delay-on energization time - min

0 s

Adjustable off-delay time - min

0 s

Current measurement - max

13 A

Current measurement - min

0 A

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

0

Number of contacts (normally open contacts)

1

Permitted delay-on energization time - max

0 s

Permitted off-delay time - max

0 s

Permitted storage and transport temperature - max

100 °C

Permitted storage and transport temperature - min

-40 °C

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

Rated control supply voltage (Us) at AC, 50 Hz - min

0 V

Rated control supply voltage (Us) at AC, 60 Hz - max

0 V

Rated control supply voltage (Us) at AC, 60 Hz - min

0 V

Rated control supply voltage (Us) at DC - max

30 V

Functions

DC-voltage over current

Rated control supply voltage (Us) at DC - min

15 V

Rated operational current (Ie) fix

10 A

Rated operational current for specified heat dissipation (In)

10 A

Trip time for electronic trip

90 ms

Ambient operating temperature details

-30° C - 55° C

Protection

Electronic

Capacitive load

Up to 20,000 µF

Output terminals

3x LOAD (+) and 3x GND (-)

Overload current and short-circuit current trip

Type 1.3 x IN with active current limitation

Terminal capacity

2.5 mm² (flexible with ferrules)

4 mm² (rigid)

Type of current

DC

Voltage type of supply voltage

DC

Voltage type of operating voltage

DC

Rated switch current

10 A

Supply voltage at DC - min

15 V

Supply voltage at DC - max

30 V

Operating voltage at DC - min

15 V

Operating voltage at DC - max

30 V

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