Specifications

Eaton PXS24S16A001

Catalog Number: PXS24S16A001

Eaton Moeller series xEffect - PXS24 Electronic Protection Module. Electronic overcurrent protection for 24V DC, fix 16A with tripped signal out-, control in-put and supply terminals



General specifications

Product Name
Eaton Moeller series xEffect - PXS24 current monitoring relay

Catalog Number
PXS24S16A001

EAN
9010238011212

UPC
786689167660

Product Length/Depth
127 mm

Product Height
93 mm

Product Width
18 mm

Product Weight
0.118 kg

Compliances
CE
UL508
RoHS conform

Certifications
EN45545-2
IEC 61373

Powering Business Worldwide

Product specifications

Features

OFF = Channel not in operation

Two-colored

Green = OK; Red = Triggered

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-e16_F_ORT-IT

Installation instructions

IL019188ZU

MA150501504

Installation videos

PXS24 - Electronic protection module for 24 VDC | Application

PXS24 - Protect 24 VDC control circuits effectively

PXS24 - Electronic protection module for 24 VDC | Product

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

16 A

Voltage rating

24 VDC (15 VDC - 30 VDC)

Equipment heat dissipation, current-dependent

2.9 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

20.8 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

16 A

Rated operational current for specified heat dissipation (In)

16 A

Trip time for electronic trip

70 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)

Terminal capacity (input)

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

Type of current

DC

Voltage type of supply voltage

DC

Voltage type of operating voltage

DC

Rated switch current

16 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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