



## Eaton PXS24S02A001

Eaton Moeller series xEffect - PXS24  
Electronic Protection Module. Electronic  
overcurrent protection for 24V DC, fix 2A  
with tripped signal out-, control in-put and  
supply terminals

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|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller series<br>xEffect - PXS24 current<br>monitoring relay |
| <b>CATALOG NUMBER</b>           | PXS24S02A001                                                        |
| <b>UPC</b>                      | 786689167608                                                        |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 127 mm                                                              |
| <b>PRODUCT HEIGHT</b>           | 93 mm                                                               |
| <b>PRODUCT WIDTH</b>            | 18 mm                                                               |
| <b>PRODUCT WEIGHT</b>           | 0.118 kg                                                            |
| <b>COMPLIANCES</b>              | CE<br>UL508<br>RoHS conform                                         |
| <b>CERTIFICATIONS</b>           | EN45545-2<br>IEC 61373                                              |

## FEATURES

Two-colored  
Green = OK; Red =  
Triggered  
OFF = Channel not in  
operation

### 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

Does not apply, since the

## MCAD MODEL

[pxs24s.stp](#)

## 0000

[eaton-pxs24-success-story-cs011001en-en-us.pdf](#)

|                                                                 |                                                                                                         |
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| <b>PROTECTION OF ASSEMBLIES</b>                                 | entire switchgear needs to be evaluated.                                                                |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                                                              |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated.                                      |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated.                                      |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                                                                  |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                                                                  |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                                                                  |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                                                                  |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                                                                  |
| <b>ELECTRIC CONNECTION TYPE</b>                                 | Plug-in connection                                                                                      |
| <b>SPECIAL FEATURES</b>                                         | <ul style="list-style-type: none"> <li>• Inductive loads: up to 13 A</li> <li>• On/Off/Reset</li> </ul> |
| <b>TYPE</b>                                                     | Automation engineering 24V                                                                              |
| <b>AMPERAGE RATING</b>                                          | 2 A                                                                                                     |
| <b>VOLTAGE RATING</b>                                           | 24 VDC (15 VDC - 30 VDC)                                                                                |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>            | 0.4 W                                                                                                   |
| <b>MOUNTING METHOD</b>                                          | Snap-fit on DIN rail (EN 60715)                                                                         |
| <b>DEGREE OF PROTECTION</b>                                     | IP20                                                                                                    |
| <b>VOLTAGE TYPE</b>                                             | DC                                                                                                      |
| <b>BUSBAR TYPE</b>                                              | LINE (+) and GND (-); max 60A in various lengths of up to 1m                                            |
| <b>NUMBER OF CHANNELS</b>                                       | 1                                                                                                       |
| <b>TERMINAL TYPE</b>                                            | Push in terminals                                                                                       |
| <b>TEXT FIELD TYPE</b>                                          | 17.5 mm x 6 mm                                                                                          |
| <b>CURRENT MEASUREMENT - MAX</b>                                | 2.6 A                                                                                                   |
| <b>CURRENT MEASUREMENT - MIN</b>                                | 0 A                                                                                                     |

|                                                                              |                                                 |
|------------------------------------------------------------------------------|-------------------------------------------------|
| <b>NUMBER OF CONTACTS<br/>(CHANGE-OVER<br/>CONTACTS)</b>                     | 0                                               |
| <b>NUMBER OF CONTACTS<br/>(NORMALLY CLOSED<br/>CONTACTS)</b>                 | 0                                               |
| <b>NUMBER OF CONTACTS<br/>(NORMALLY OPEN<br/>CONTACTS)</b>                   | 1                                               |
| <b>PERMITTED STORAGE<br/>AND TRANSPORT<br/>TEMPERATURE - MAX</b>             | 100 °C                                          |
| <b>PERMITTED STORAGE<br/>AND TRANSPORT<br/>TEMPERATURE - MIN</b>             | -40 °C                                          |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 50<br/>HZ - MAX</b>          | 0 V                                             |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 50<br/>HZ - MIN</b>          | 0 V                                             |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 60<br/>HZ - MAX</b>          | 0 V                                             |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 60<br/>HZ - MIN</b>          | 0 V                                             |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MAX</b>                 | 30 V                                            |
| <b>FUNCTIONS</b>                                                             | DC-voltage over current                         |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MIN</b>                 | 15 V                                            |
| <b>RATED OPERATIONAL<br/>CURRENT (IE) FIX</b>                                | 2 A                                             |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b> | 2 A                                             |
| <b>TRIP TIME FOR<br/>ELECTRONIC TRIP</b>                                     | 470 ms                                          |
| <b>AMBIENT OPERATING<br/>TEMPERATURE DETAILS</b>                             | -30° C - 55° C                                  |
| <b>PROTECTION</b>                                                            | Electronic                                      |
| <b>CAPACITIVE LOAD</b>                                                       | Up to 20,000 µ F                                |
| <b>OUTPUT TERMINALS</b>                                                      | 3x LOAD (+) and 3x GND (-)                      |
| <b>OVERLOAD CURRENT<br/>AND SHORT-CIRCUIT<br/>CURRENT TRIP</b>               | Type 1.3 x IN with active<br>current limitation |
| <b>TERMINAL CAPACITY</b>                                                     | 2.5 mm <sup>2</sup> (flexible with<br>ferrules) |

|                                   |                            |
|-----------------------------------|----------------------------|
|                                   | 4 mm <sup>2</sup> (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              | 2 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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