Specifications

# Eaton 118980




## Catalog Number: 118980

Eaton XT Interference filter for I/O modules of the XC100/200

### General specifications

| | |
|---|---|
| **Product Name** | **Catalog Number** |
| Eaton XT Accessory Interference filter | 118980 |
| **EAN** | **Product Length/Depth** |
| 4015081170975 | 90 mm |
| **Product Height** | **Product Width** |
| 56.5 mm | 35.5 mm |
| **Product Weight** | **Certifications** |
| 0.09 kg | IEC/EN 61131-2<br>EN 50178 |

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## Features & Functions

### Features

Mains overvoltage protection (power supply)

## General

### Connection type

Screw terminals

### Current consumption

12 A max.

### Degree of protection

IP20

### Overvoltage category

II

### Pollution degree

2

### Potential isolation

Power supply, Input voltage against PE: yes

Power supply, Output voltage against PE: yes

### Rated impulse withstand voltage (Uimp)

850 V (auxiliary and control circuits)

### Residual ripple

≤ 5 %

## Ambient conditions, mechanical

### Impact resistance

500 g/ 50 mm ±25 g

### Mounting position

Horizontal

Vertical

### Shock resistance

15 g, Mechanical, Shock duration 11 ms

### Vibration resistance

10 - 57 Hz, ± 0.075 mm

57 - 150 Hz, ± 1.0 g

## Climatic environmental conditions

### Ambient operating temperature - min

0 °C

### Ambient operating temperature - max

55 °C

### Ambient storage temperature - min

-25 °C

### Ambient storage temperature - max

70 °C

## Electro magnetic compatibility

### Emitted interference

Class A (according to DIN/EN 55011/22)

### Interference immunity

According to EN 50082-2

## Terminal capacities

### Terminal capacity

0.2 - 2.5 mm² (22 - 12 AWG), flexible with ferrule, Screw terminals

0.2 - 2.5 mm² (22 - 12 AWG), solid, Screw terminals

## Power supply

### Residual ripple

≤ 5 %

### Supply voltage - max

28.8 V

## Communication

### Connection type

Screw terminals

## Input/Output

### Input voltage at DC - min

20.4 V

### Input voltage at DC - max

24 V

### Output current at AC, 50 Hz - max

12 A

### Output voltage at DC - max

24 V

## Safety

### Potential isolation

Power supply, Input voltage against PE: yes

Power supply, Output voltage against PE: yes

## Design verification

### Equipment heat dissipation, current-dependent Pvid

0 W

### Heat dissipation capacity Pdiss

0 W

### Heat dissipation per pole, current-dependent Pvid

0 W

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

0 A

### Static heat dissipation, non-current-dependent Pvs

0 W

### 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

Meets the product standard's requirements.

### 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.

### 10.12 Electromagnetic compatibility

Is the panel builder's responsibility.

## Resources

### Brochures

eaton-xc300-modular-plc-brochure-br050008en-en-us.pdf

### Declarations of conformity

DA-DC-00003401.pdf

DA-DC-00003834.pdf

### Drawings

eaton-electrical-timers-control-xt-accessory-dimensions.eps

eaton-electronic-devices-control-xt-accessory-dimensions.eps

eaton-general-m22-standards.eps

### mCAD model

DA-CD-xt_fil_2

eaton-xt_fil_2-3d-model.stp

eaton-xt_fil_2-drawing.dwg

DA-CS-xt_fil_2

### 10.13 Mechanical function

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

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