Specifications

Eaton 285316

Catalog Number: 285316

Eaton XT Interference filter for the external supply of the 24VDC XC100/200



General specifications

Product Name
Eaton XT Accessory Interference filter

Catalog Number
285316

EAN
4015082853167

Product Length/Depth
30 mm

Product Height
90 mm

Product Width
35 mm

Product Weight
0.09 kg

Certifications
UL508
EN 50178
IEC/EN 61131-2
CSA
UL Category Control No.: NRAQ
CSA-C22.2 No. 0-M
CSA Class No.: 2252-01
UL File No.: E135462
CE
CSA File No.: 012528
UL
CSA-C22.2 No. 142-M

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Features & Functions

Features

Mains overvoltage protection (power supply)

General

Connection type

Screw terminals

Current consumption

2.2 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

Vertical

Horizontal

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 50081-2

Terminal capacities

Terminal capacity

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

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

2.2 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-electronic-devices-xt-accessory-dimensions.eps

eaton-general-m22-standards.eps

eCAD model

DA-CE-ETN.XT-FIL-1

mCAD model

eaton-xt_fil_1-3d-model.stp

DA-CD-xt_fil_1

DA-CS-xt_fil_1

eaton-xt_fil_1-drawing.dwg

10.13 Mechanical function

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

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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