



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

Part no. **XT-FIL-1**
 Catalog No. **285316**

Delivery program

Accessories			Filtering:
Description			Interference suppression of the external 24 V DC supply of the XC100/200
Max. current consumption		A	2.2
Information relevant for export to North America			
Product Standards IEC: see Technical Data; UL508; CSA-C22.2 No. 0-M; CSA-C22.2 No. 142-M; CE marking			
UL File No. E135462			
UL Category Control No. NRAQ			
CSA File No. 012528			
CSA Class No. 2252-01			
North America Certification UL listed, CSA certified			
Degree of Protection IEC: IP20, UL/CSA Type: -			

Technical data

General

Standards			IEC/EN 61131-2 EN 50178
Ambient temperature		°C	0 - +55
Storage	θ	°C	-25 - +70
Mounting position			Vertical or horizontal
Vibration resistance			10 - 57 Hz ± 0.075 mm 57 - 150 Hz ± 1.0 g
Mechanical shock resistance		g	15 Shock duration 11 ms
Impact resistance			500 g/∅ 50 mm ±25 g
Overvoltage category/pollution degree			II/2
Degree of Protection			IP20
Rated impulse withstand voltage	U _{imp}	V	850
Emitted interference			DIN/EN 55011/22, Class A
Interference immunity			EN 50081-2
Weight		kg	0.095
Dimensions (W x H x D)		mm	35 x 90 x 30
Terminations			Screw terminals
Terminal capacities		mm ²	
Screw terminals			
Flexible with ferrule		mm ²	0.2 - 2.5 (AWG22 - 12)
Solid		mm ²	0.2 - 2.5 (AWG22 - 12)

Power supply

Input voltage		V DC	24
Admissible range		V DC	20.4 - 28.8
Residual ripple		%	≤ 5
Mains overvoltage protection			Yes
Potential isolation			
Input voltage against PE			Yes

Input voltage agaistn output voltage		No
Output voltage against PE		Yes
Rated value	V DC	24
Output current	A	2.2

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

PLC's (EG000024) / Accessories for controls (EC002584)		
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / Programmable logic control (SPS, accessories) (ecl@ss10.0.1-27-24-22-92 [AFR333003])		
Type of electrical accessory		Other
Type of mechanical accessory		Other

Approvals

Product Standards		IEC: see Technical Data; UL508; CSA-C22.2 No. 0-M; CSA-C22.2 No. 142-M; CE marking
UL File No.		E135462
UL Category Control No.		NRAQ
CSA File No.		012528
CSA Class No.		2252-01
North America Certification		UL listed, CSA certified

Specially designed for North America		No
Current Limiting Circuit-Breaker		No
Degree of Protection		IEC: IP20, UL/CSA Type: -

Dimensions

