Description

The XR38 power entry module for circuit breakers with 3/8" threadneck combines up to 3 functions in one component. A C14 appliance inlet, a resettable overcurrent protection and a line filter. Appropriate line filters can be selected for the use of the power entry module in medical equipment applications according to IEC/EN60601-1. You can choose between two standard versions: version C without actuator guard (reset button protrudes from the module) and version D with actuator guard (reset button completely recessed). Screw-type mounting from the front or from the rear.

Combination of XR38 with 1658 only available in the USA.

Typical applications

Medical apparatus, laboratory equipment, professional kitchen equipment, 3D printers etc.

Technical data	
Rated voltage	AC 250 V
Current rating (C14 appliance inlet with/without filter)	10 A (IEC/EN) 15 A (UL/CSA)
Operating temperature	-25 °C +60 °C
Number of poles	L, N , + protective conductor
Degree of protection	I
Mounting method	Screw-type mounting (from the front or from the rear)
Terminals	C14 and circuit breaker: Blade terminals 6.3 x 0.8 mm
Enclosure material support plate	Thermoplastics, black, UL94V-0
Appliance inlet	C14
Circuit breaker for equipment protection	106, 1140, 1658, 2-5700



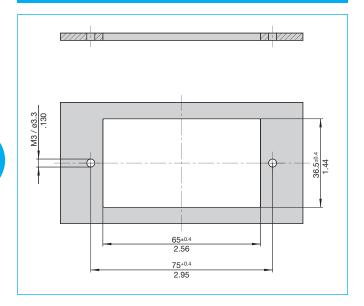
Ordering information
Ordering information
Tona na
Type no. XR38 Power entry module for 106, 1140, 1658, 2-5700 (1)
Module
C Push button protruding
D Push button recessed
Mounting method
04 Screw-type mounting
Filters
00 Without
01 Standard line filter
03 Standard line filter for medical equipment
06 High performance line filter for medical equipment
Filter rating (for version with filter only) (2)
01 1 A
03 3 A
06 6 A
08 8 A 10 10 A
10 10 A 12 12 A
15 15 A
Version
11 Wired ⁽³⁾
Supply status
M Module supplied with circuit breaker
mounted
XR38 C 04 01 03 11 M Ordering example

- Only the following versions are available with 3/8" threadneck and blade terminals 6.3 x 0.8mm.
- 106-P10...
- 1140-G0-...-P1/P7
- 1658-G21-00-P10
- 2-5700-iG1-P10-...
- (2) For the selection of the filter current rating refer to the table in the data sheet.

 The current rating of the circuit breaker must not be higher than the filter current rating.
- (3) For single pole circuit breakers, only one wire is routed from the circuit breaker to the C14 appliance inlet when ordered as "wired".

Accessories such as water splash cover upon request.

Mounting cut-out



Schematic diagrams

Standard filter (C0401, D0401)

Filter for medical equipment (C0403, C0406, D0403, D0406)

All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which hare not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of improved design and performance. Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Part numbers of the devices may differ from their marking.

Approvals

C14 Appliance Inlet					
Approval authority	Standard	Rated voltage	Max. current rating		
ENEC	IEC/EN 60320-1	AC 250 V	10 A		
UL	UL 60320-1	AC 250 V	15 A		
CSA	C22.2 no. 60320- 1	AC 250 V	15 A		

Complete modules XR38-C0400 and XR38-D0400 also available with approval according to UL 60320-1 at max. current of 15 A.

C14 Line Filter					
Approval authority	Standard	Rated voltage	Max. current rating		
ENEC	IEC/EN 60939	AC 250 V	10 A		
UL	UL 1283	AC 250 V	15 A		
CSA	CSA C22.2 No. 8	AC 250 V	15 A		

Circuit breakers

See main data sheet of the circuit breaker

Please note: the current rating of the circuit breaker must not exceed the max. current of the appliance inlet / line filter, depending on the approval.

Selection of filter current rating

The thermal circuit breaker protects the filter in the event of an overload. The current rating of the circuit breaker must not be higher than the filter current rating. For best attenuation a filter with the

smallest possible current rating should be selected. Depending on the IEC/EN or UL/CSA approval, other maximum values are permissible for the appliance inlet. The following tables serve as orientation.

Circuit breaker type 106		
Current rating of circuit breaker	Min. rating of filter	
0.05-1 A	1 A	
1.2-3 A	3 A	
3.5-6 A	6 A	
7-8 A	8 A	
10 A	10 A	

Circuit breaker type 1140				
Current rating of circuit breaker	Min. rating of filter			
0.05-1 A	1 A			
1.2-3 A	3 A			
3.5-6 A	6 A			
7-8 A	8 A			
9-10 A	10 A			
11-12 A	12 A			
13-15 A	15 A			

Circuit breaker type 1658		
Current rating of circuit breaker	Min. rating of filter	
5-6 A	6 A	
7-8 A	8 A	
9-10 A	10 A	
11-12 A	12 A	
15 A	15 A	

Circuit breaker type 2- 5700		
Current rating of circuit breaker	Min. rating of filter	
0.05-1 A	1 A	
1.2-3 A	3 A	
3.5-6 A	6 A	
7-8 A	8 A	
10 A	10 A	
12 A	12 A	
13-15 A	15 A	

Dimensions

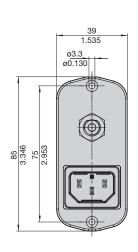
Note:

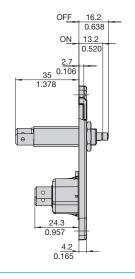
- Drawings are exemplary with circuit breakers type 106/2-5700. For combinations with 1140/1658 circuit breakers please refer to their data sheets.
- Modules are shown without wiring, to determine the necessary installation space due to the wiring see the corresponding section in this datasheet.

Type C

C0400 type

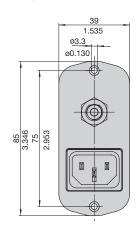
(Push-button protruding, example with circuit breaker type 106)

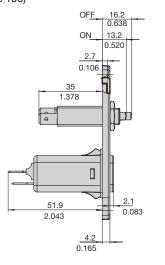




C040x type

(Push-button protruding, with line filter, example with circuit breaker type 106)

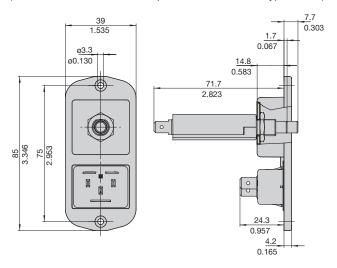




Type D

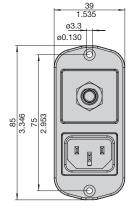
D0400 type

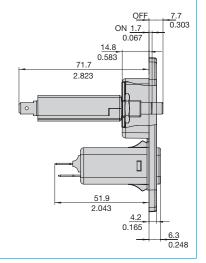
(Push-button is recessed, example with circuit breaker type 2-5700)



D040x type

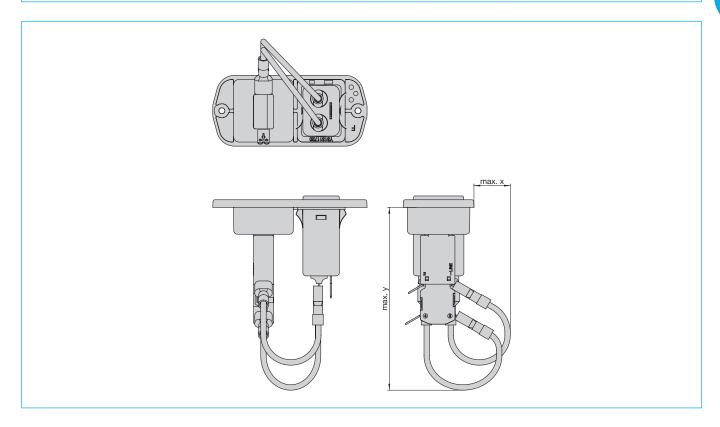
(Push-button is recessed, with line filter, example with circuit breaker type 2-5700)



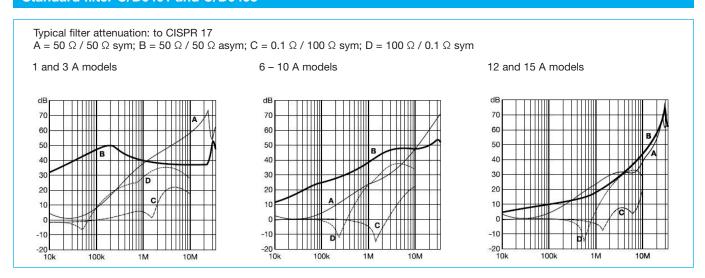


Dimensions

Installation space for wiring (approximate indication):								
O'man'i banalana		x			у			
Circuit breakers	C00400	C040x	D0400	D040x	C0400	C040x	D0400	D040x
106					65	80	80	90
1140 (2-pole)	30	30	30	30	85	90	95	95
1658					70	80	80	90
2-5700					90	100	100	95
Specifications in mm.								



Standard filter C/D0401 and C/D0403

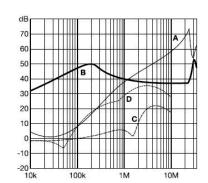


High-performance filter C/D0406

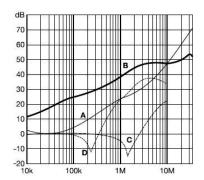
Typical filter attenuation: to CISPR 17

A = 50 Ω / 50 Ω sym; B = 50 Ω / 50 Ω asym; C = 0.1 Ω / 100 Ω sym; D = 100 Ω / 0.1 Ω sym

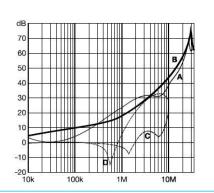
1 and 3 A models



6 - 10 A models



12 and 15 A models



Filter selection table

Filters	Current rating 50 °C (25 °C) A	Leakage current	Inductance L	Capacity Cx	Capacity Cy	Resistance R
	00 0 (20 0) //	250VAC/50Hz	mH	μF	nF	kΩ
		μΑ				
Type 01	1 (1.2)	373	12	0.1	2.2	
Standard line filter	3 (3.5)	373	2.5	0.1	2.2	
	6 (7.2)	373	0.78	0.1	2.2	
	8 (10.6)	373	0.5	0.1	2.2	
	10 (11.6)	373	0.225	0.1	2.2	
	12 (12)	373	0.11	0.1	2.2	
	15 (15)	373	0.075	0.1	2.2	
Type 03	1 (1.2)	2	12	0.1		1000
Standard line filter for medical equipment	3 (3.5)	2	2.5	0.1		1000
Tor medical equipment	6 (7.2)	2	0.78	0.1		1000
	8 (10.6)	2	0.5	0.1		1000
	10 (11.6)	2	0.225	0.1		1000
	12 (12)	2	0.11	0.1		1000
	15 (15)	2	0.075	0.1		1000
Type 06	1 (1.2)	2	59.53	0.1		1000
High-performance line filter for medical	3 (3.5)	2	13.45	0.1		1000
equipment	6 (7.2)	2	4.1	0.1		1000
	8 (10.6)	2	2.3	0.1		1000
	10 (11.6)	2	1.02	0.1		1000
	12 (12)	2	0.58	0.1		1000
	15 (15)	2	0.4	0.1		1000