

with integral circuit breakers





POWER ENTRY MODULES with integral circuit breakers

Systematically reducing of components is a major reason for a successful cost-saving design. And what is more: Less individual parts increases overall reliability and usually provides additional space. E-T-A's power entry modules combine up to 5 functions in a single component: a C14/C20 appliance inlet, resettable overcurrent protection, an ON/OFF switch, a line filter and add-on modules for undervoltage release, remote trip or auxiliary contacts. Unlike conventional standard modules with fuses, E-T-A's power entry modules are fitted with a conveniently resettable circuit breaker.







This eliminates the need to replace blown fuses in the event of a failure and reduces equipment and machinery downtime. Thanks to screw mounting, the modules tightly fit in equipment and machinery and withstand even extreme pull-out forces of power cables.

Your benefits

- Reduced mounting and wiring time (up to 90 %)
- Reduced disposition and storage costs
- **High availability:** Circuit breakers can easily, reliably and quickly be reset after overcurrent trip. Fuse replacement is eliminated.
- Low operational costs: No expenses for procurement, inventory management, disposal and services.
- **High reliability:** In the event of a failure, multipole circuit breakers always interrupt the circuit across all poles. They protect the user against electrocution.

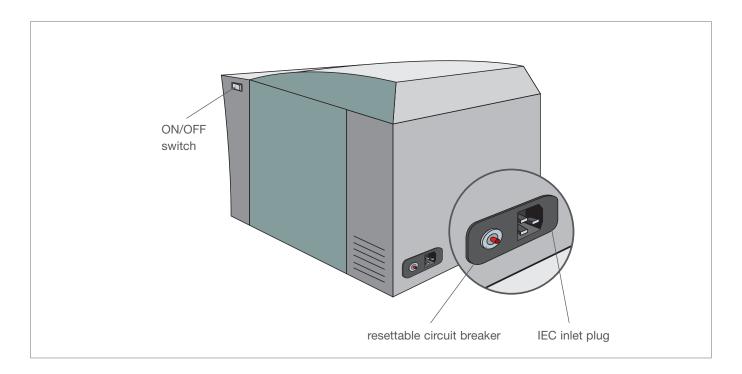
Ten-in-one

Example: Reducing parts when specifying 2-pole protection



with resettable circuit breakers

E-T-A's XR38 power entry module combines a C14 appliance inlet and a single pole or double pole resettable E-T-A circuit breaker into a single component. It is ideal for use when the ON/OFF switch cannot be installed in close proximity to the inlet plug. This can be the case if a device must be switched on and off frequently - making it necessary to design the main switch on the front of the equipment. You can choose from five resettable circuit breakers in the E-T-A range. Besides four thermally tripping circuit breakers, E-T-A offers the 8330 double pole hydraulic-magnetic circuit breaker specifically for medical applications.



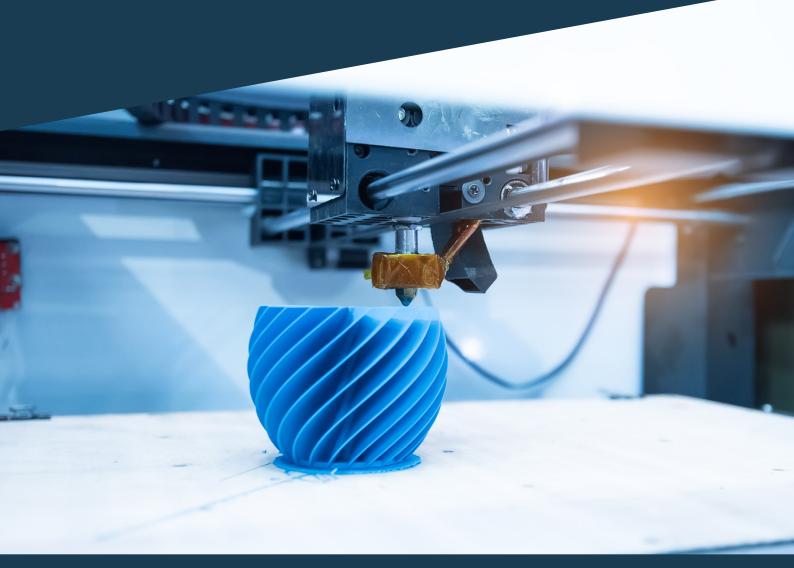
Combines 2 functions in a single device: C14 inlet plug and resettable overcurrent protection (push button)



Туре	1658	106	1140-G	2-5700	8330
The XR38 module accommodates the following E-T-A circuit breakers:					
number of poles	1	1	1, 2	1	1, 2
working principle	thermal	thermal	thermal	thermal	hydraulic-magnetic
current rating range	5 15 A	0.05 10 A	0.05 15 A	0.05 15 A	0.02 15 A
rated voltage	AC 240 V DC 28 V	AC 240 V DC 48 V	AC 240 V DC 48 V	AC 250 V DC 50 V	AC 250 V DC 80 V
Benefit	reset and auto-reset versions available	extremely compact design	double pole, 1-pole protected	also available with push-push actuator	double pole, 2-pole protected

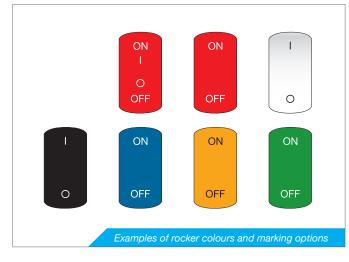


with circuit breaker/switch combinations





If the mains switch of a device is only actuated occasionally (e.g. with a medical freezer), it can be placed close to the appliance inlet. Power entry with integral circuit breaker/ switch combinations are the most economical solution. E-T-A's X3120 and X3130 power entry modules have a C14 or C20 inlet plug and thermal or thermal-magnetic circuit breaker/switch combinations with rocker actuation which serves as a central mains switch of equipment and machines. The rocker actuators are available in a range of colours and with illumination upon request. The circuit breakers for the X3120 modules are also available with factory-mounted add-on modules for undervoltage release, remote trip or auxiliary contacts.







Combines 3 functions in a single device:

C14 inlet plug, ON/OFF switch and resettable overcurrent protection





C14 inlet plug VDE: 10 A UL: 15 A

X3130-A0400, compact design

Combines up to 4 functions in a single device:

C20 inlet plug, ON/OFF switch and resettable overcurrent protection plus optional undervoltage release/magnetic trip/ remote trip modules





X3120-B0400, version with recessed circuit breaker (actuator guard)

C20 inlet plug VDE: 16 A UL: 20 A

Combines up to 4 functions in a single device: C14 inlet plug, ON/OFF switch and resettable overcurrent protection plus optional undervoltage release/remote trip modules



X3120-A0400, standard version



C14 inlet plug VDE: 10 Å UL: 15 A

with circuit breakers and line filters

In order to comply with the EMC Directive, these devices must often be fitted with a line filter. This is because electronic components, such as switch mode power supplies and frequency converters, often create undesired radio interference voltages while operating. As an option, E-T-A offers the XR38 and X3120 power entry modules with IEC compact plug filter (C14). Besides line filters for general industrial equipment, E-T-A offers two versions without Y capacitors particularly for medical equipment: A MED-TECH standard filter and a MED-TECH high performance filter. Both versions only allow minimal leakage currents of max. 2µA. Patients and operators are protected – because the circuit breakers and line filters used are perfectly matched. This means the circuit breaker also reliably protects the line filter in the event of a failure against overheating.



Combines 3 functions in a single device:

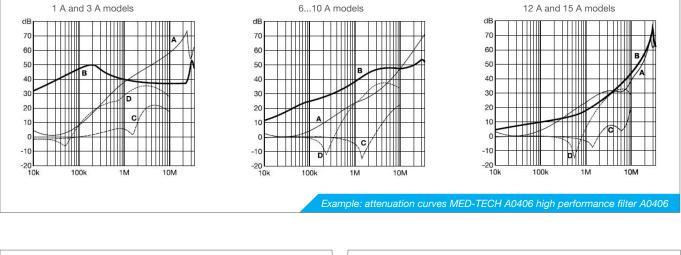
- C14 inlet plug
- resettable overcurrent protection
- line filter

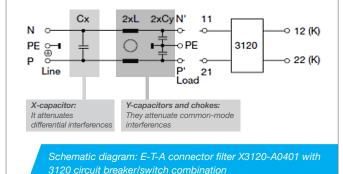
Combines up to 5 functions in a single device:

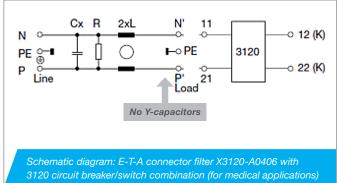
- C14/C20 inlet plug
- ON/OFF switch
- resettable overcurrent protection
- line filter
- untervoltage release/remote trip modules



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







Technical data

Туре	XR38-C0400	XR38-D0400	XR38-C040x	XR38-D040x
Appliance inlet	C14	C14	C14	C14
EMC-filter	-	-	0	٠
Trip curve	thermal or hydraulic-magnetic	thermal or hydraulic-magnetic	thermal or hydraulic-magnetic	thermal or hydraulic-magnetic
Principle type of CBE	push to reset	push to reset	push to reset	push to reset
Actuator guard	-	•	-	٠
Built-in CBE	1658, 106, 1140-G, 2-5700, 8330			
Add-on modules**	-	-	-	-
Cover for CBE	•	٠	٠	•
Dimensions***	85 x 39 x A*			
Approvals	VDE, TÜV, UL, CSA, CCC			

* Depending on the selected CBE

*** Untervoltage release/remote trip modules *** Without cables

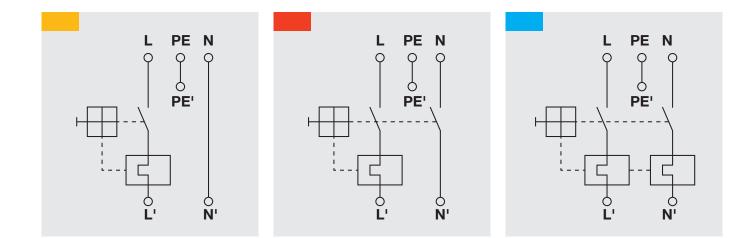
All appliance inlet modules are available in following versions:

- one pole switching, one pole protected
- two pole switching, one pole protected
- two pole switching, two pole protected

Module X3120:

Also available as switch-only (without overcurrent protection)

X3130-A0400	X3120-A0400	X3120-A040x	X3120-B0400	X3120-B040x
				Coming soon
C14	C14	C14	C20	C20
-	_	٠	-	٠
thermal	thermal or thermal-magnetic	thermal or thermal-magnetic	thermal or thermal-magnetic	thermal or thermal-magnetic
switch/breaker combination	switch/breaker combination or push to reset			
-	-	-	•	٠
3130	3120	3120	3120	3120
-	٠	٠	٠	•
-	٠	٠	_	-
82 x 36,5 x A*	91,6 x 36 x 40	91,5 x 36,2 x 49,3	100 x 37 x 47	101 x 46 x 79,5
VDE, UL, CSA, CCC	VDE, UL, CSA, CCC, KC			



E-T-A Elektrotechnische Apparate GmbH

Industriestraße 2-8 90518 Altdorf Tel. 09187 10-0 Fax 09187 10-397 E-Mail: info@e-t-a.de

www.e-t-a.de