② E 示 A REX12 Electronic Circuit Protector

Description

The compact and flexible all-in-one solution REX consists of several perfectly matched components. It comprises the EM12-T supply module for the plus and minus potential via a single or double channel REX12-T electronic circuit protector which can be mounted side by side in any number and the PM12-T potential extension module for plus and minus multiplication. Connection of the only 12.5 mm wide modules is exclusively with push-in terminals which allow no-tool time-saving wiring.

The circuit protectors are placed on the symmetrical rail one after another in combination with EM12-T and PM12-T and are electrically connected by means of the built-in connector arm - no further accessories are required. The circuit protector REX12-T offers selective overcurrent protection by responding to short circuit or overload faster than the switch mode power supply. Capacitive loads of up to 20,000µF can be switched on without problems. The circuit protector is available in all standard fixed and adjustable current ratings from 1 A to 10 A. Besides the UL508listed approval and NEC Class2, the REX12-T also meets the requirements of cable protection to EN60204-1.

Features

- Combination of supply modules, overcurrent protection and power distribution
- Selective load protection by means of electronic trip curve
- No accessories required for connecting the components
- Width per channel only 12.5 mm (1-channel) or 6.25 mm (2-channel)
- Fixed and adjustable current ratings 1A-10A
- Integral fail-safe element, adjusted to max. current rating
- Switching capacitive loads up to 20,000 μF
- Manual ON/OFF/reset momentary switch
- Clear status indication by means of LED and signal contact Si
- Connection via push-in terminals including orange press release buttons



Benefits

- Saves cost no further accessories required
- Saves 50 % time through innovative and flexible mounting and connection technology
- Saves space with a width of only 12.5 mm per channel
- Provides flexibility through ease of mounting, disassembly and modular design
- Reduces storage costs because only one product is required for all current ratings

Preferred types - for more details on all configurations please see page 3

Preferred types are E-T-A products most frequently used by E-T-A customers. We manufacture E-T-A preferred types in particularly high

volumes. Our preferred types are supplied at shorter lead times than non-standard versions.

Preferred types

Preferred types	Short description	Preferred ra	Preferred ratings (A)						
REX12-TA1	1-channel	2	4	6	10	2/2	4/4	6/6	
REX12-TA1-107-DC24V-		х	х	х	х				
REX12-TA2	2-channel	2	4	6	10	2/2	4/4	6/6	
REX12-TA2-107-DC24V-						х	х	х	
REX12D-TE2	2-channel, adjustable	1A-10A							
REX12D-TE2-100-DC24V-		х							

Approvals





Compliances



Data sheet

The current data sheet is available on our website: www.e-t-a.de/e359

② E F A REX12 Electronic Circuit Protector

Technical data ($T_{amb} = +23 \, ^{\circ}C$, $U_{B} = DC \, 24 \, V$)

REX12-Txx-xxx circuit protectors	
REX12-TA1-107-DC24V-xA	1-channel
REX12-TB1-107-DC24V-xA	1-channel
REX12-TA2-107-DC24V-xA/xA	2-channel
REX12D-TE2-100-DC24V-xA-xA	2-channel

The REX12-TAx is operated in the standard mode with EM12-T. The REX12D-TE2 can be operated both with EM12D-T or EM12-T. The operating mode EM12D-T (COM mode) or EM12-T (standard) is recognised automatically. The following data exclusively refer to the standard mode.

standard mode.			
Operating voltage U _B		DO	C 24 V (1830 V)
Closed-circuit current I ₀ REX12-Tx1 1-channel REX12-TA2 2-channel REX12D-TE2 1A-10A 2-ch	in O	N condition: N condition: N condition:	typically 5 mA typically 8 mA typically 12 mA
Reverse polarity protection	n Yes		
Power failure buffering time	up to 10	ms	
Rated current I _N REX12-Tx1 REX12-TA2 REX12D-TE2	1 A/1 A,	A Condition up	8 A, 10 A 6 A, 4 A/4 A, 6 A/6 A con delivery max.
Visual status indication by means of LED	green: green/ora blinking: orange: red:	load current reached 90 % overload or s disconnectio - after discor	warning limit 6 hort circuit until
			oltage release of oltage in ON conditoreset
	OFF:	Device switc	hed off by means of

Load circuit

temperature on overload disconnection and load current warning limit

Continuous Current IC typically 0.8 x I_N

(Fail Safe Element is protected by REX12)

ON/OFF momentary switch or no operating voltage

Voltage drop in load circuit at $\rm I_N$ and at $\rm I_N$ 70 % for REX12-Txx between LINE+ and LOAD+

Detween Line.	T AND LOADT		
I _N : 1 A (CL2)	typically 180 mV	I _N : 70 %	typically 125 mV
I _N : 2 A (CL2)	typically 110 mV	I _N : 70 %	typically 80 mV
I _N : 3 A	typically 120 mV	I _N : 70 %	typically 85 mV
I _N : 3 A-CL2	typically 130 mV	I _N : 70 %	typically 90 mV
I _N : 4 A	typically 115 mV	I _N : 70 %	typically 80 mV
I _N : 4 A-CL2	typically 180 mV	I _N : 70 %	typically 120 mV
I _N : 6 A	typically 170 mV	I _N : 70 %	typically 110 mV
I _N : 8 A	typically 160 mV	I _N : 70 %	typically 105 mV
I _N : 10 A	typically 180 mV	I _N : 70 %	typically120 mV
2) depending on p	ower source		

Technical data (T_{amb} = +23 °C, U_B = DC 24 V)

REX12D-TE2-100-DC24V-	1A-10A			
I _N : 1 A typically 3 I _N : 2 A typically 3 I _N : 3 A typically 4 I _N : 4 A typically 5	30 mV 39 mV 18 mV	I _N : 70 9 I _N : 70 9 I _N : 70 9 I _N : 70 9	6 typic 6 typic	ally 28 mV ally 34 mV ally 40 mV ally 46 mV
I_N : 5 A typically 6 I_N : 6 A typically 7 I_N : 7 A typically 8	66 mV 74 mV 33 mV	I _N : 70 9 I _N : 70 9 I _N : 70 9	6 typic 6 typic 6 typic	ally 52 mV ally 59 mV ally 65 mV
I_N : 8 A typically S I_N : 9 A typically 1 I_N : 10 A typically 1	101 mV 110 mV	I _N : 70 % I _N : 70 % I _N : 70 %	6 typic 6 typic	ally 71 mV ally 77 mV ally 83 mV
Fail-safe element integral blade fuse adjusted to related current rating I _N	I _N : 1 A (CI I _N : 2 A (CI I _N : 3 A I _N : 3 A-CL I _N : 4 A I _N : 4 A-CL I _N : 6 A I _N : 10 A I _N : 1 A/1 I I _N : 2 A/2 I I _N : 3 A/3 I I _N : 4 A/4 I I _N : 6 A/6 I I _N : 1 A-1	L2) 2 4 (CL2) 4 (CL2) 4 -CL2 4 -CL2 4 -CL2	fail-safe I _N . fail-safe I _N . fail-safe I _N . fail-safe I _N . fail-safe I _N .	2 A 3.15 A 4 A 4 A 6.3 A 8 A 10 A 1 A/1 A 2 A/2 A 3.15A/3.15A 4 A/4 A 4 A/4 A 6.3 A/6.3 A
Operating voltage monitoring re. undervoltage	ON at typ hysteresis	ically U typicall	J _B < 16.0 V J _B > 19.0 V y 2 V FF and ON :	switching
ON delay - with power ON	channel 2 channel 1:	: typical : typicall	ly 200 ms (I y 1,500 ms (REX12-TAx) REX12-TAx) REX12D-TE2) REX12D-TE2)
- when switching on with ON /OFF switch or - after undervoltage	channel 1	: typical : typical : typical	ly 5 ms ly 100 ms ly 5 ms	,
Disconnection of load circuit			device with tary switch	the
	nection	with sto	d / short circ rage (no aut ndervoltage	cuit discon- comatic reset)
	- at no op			
Switch-on of load circuit - momentary switch ON/OFF	device ca	n only b		on when
 applying operating voltage 	The devic		up with the	condition

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Technical data $(T_{amb} = +23 \, ^{\circ}C, \, U_{B} = DC \, 24 \, V)$

Enquire adjusted current rating with REX12D-TE2	Enquiry of currently adjusted current rating, independent of the operating mode (COM or standard), possible for each channel directly on the REX12D-TE2 Enquiry mode is started by pushing the button between ≥ 2 seconds and < 5 seconds. After releasing the button, the LED is RED for 333 ms to indicate start of enquiry. Afterwards, the LED flashes ORANGE in a pulse/break ratio of 1/2 with a frequency of 1 Hz to indicate the adjusted current value. When the adjusted current rating is reached, signalling restarts after the RED LED re-lights for 333 ms. The enquiry mode is left after the adjusted current rating was signalled 5 times or by pressing the button. Visual indication will now show again the current operating condition. The enquiry mode is possible in all operating conditions (ON, OFF, UNDERVOLTAGE and TRIPPED).
Adjustment of current rating with	The adjustment mode directly on the REX12D-TE2 can only be activated in the REX12D-TE2 standard mode The adjustment mode is started per channel by pushing the button for ≥ 5 seconds. After releasing the button, the LED is RED for 333 ms to indicate start of adjustment. The LED is blinking GREEN with a pulse/break ratio of 1/4 at a frequency of 0.6 Hz for visual indication. After reaching the max. adjustment value, signalling re-starts. Overrun of the max. adjustment value after 1 Ampere is indicated by the RED LED (333 ms). The current rating to be adjusted is adopted by pushing the button during the blinking period of 1 A up to the max. adjustment value. If for instance the button is pushed after the 7th illumination of the GREEN LED, 7A is adopted as current rating and visual indication again shows the current operating condition. If the button is not pressed, the adjustment mode is left after 5 times signalling the current rating range without a new current rating being adopted and the visual indication. The adjustment mode is possible in all operating conditions (ON, OFF, UNDER-VOLTAGE and TRIPPED).
Reset function	a blocked load output (blocked by overload / short circuit) can externally be reset by the ON/OFF momentary switch
Leakage current in load circuit in OFF condition	typically <1 mA
Capacitive loads	up to 20,000 μ F: depending on: cable attenuation, power supply used, load current and current rating
Free-wheeling diode	external free-wheeling circuit at inductive load (rating according to load)
Parallel connection of several load outputs	not allowed

Technical data (T _a	_{amb} = +23 °C, U _B = DC 24 V)				
Status output SM	status indicator in REX system				
Electrical data	minus switching signal output Group signalling is implemented in connection with EM12-T supply module				
Terminals LOAD+					
Push-in terminal PT 2.5 stripping length	0.14 mm ² 2.5 mm ² flexible AWG24 – AWG14 rigid 8 mm 10 mm				
Dimensions (w x h x d)	12.5 x 80 x 98.5 mm				
Mass REX12-TA1-xxx 1-channel REX12-TB1-xxx 2-channel REX12-TA2-xxx 2-channel REX12D-TE2-xxx 2-channel	approx. 57 g approx. 60 g approx. 58 g l approx. 62 g				
General data REX / EM	/ PM				
Housing material	moulded				
Mounting	symmetrical rail to EN 60715-35x7.5				
Ambient temperature	-25 °C +60 °C T(without condensation, cf. EN 60204-1)				
Storage temperature	-40 °C +70 °C				
Mounting temperature	+5° +60 °C				
Humidity	96 hrs / 95% RH/40 °C to IEC 60068-2-78-Cab climate class 3K3 to EN 60721				
Altitude	2,000 m above sea level 3,000 m above sea level up to +55 °C 4,000 m above sea level up to +50 °C				
Operation pressure	4 bar above atmospheric pressure				
Corrosion	96 hrs. in 5 % salt mist to only PM and EM accessories IEC 60068-2-11 test Ka				
Vibration	5 g test to IEC 60068-2-6, test Fc				
Degree of protection operating area REX12:	(IEC 60529, DIN VDE 0470) IP30				
terminal area EM, PM:	IP20				
EMC requirements (EMC directive, CE logo)	noise emission EN 61000-6-3 susceptibility: EN 61000-6-2				
Insulation co-ordination	(IEC 60934) 0.5 kV / pollution degree 2				
Dielectric strength	max. DC 30 V (load circuit)				
Insulation resistance (OFF condition)	n/a, only electronic disconnection				
Conformity	CE marking				
	<u> </u>				

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Approvals and standards

Approval authority	Standard	UL file no.	Voltage rating	Current rating range
UL	UL 2367	E306740	DC 24 V	1 A10 A
UL	UL 1310 NEC Class2	E306740	DC 24 V	1 A, 2 A, 3 A, 4 A
UL	cULus508listed	E492388	DC 24 V	1 A10 A

PM and EM – Approvals of accessories see technical data of accessories cULus508listed pending for REX12D-TE2 and REX12-TB1

Preferred types – a short explanation.

Preferred types are E-T-A products most frequently used by E-T-A customers. We manufacture E-T-A preferred types in particularly high

volumes. Our preferred types are supplied at shorter lead times than non-standard versions.

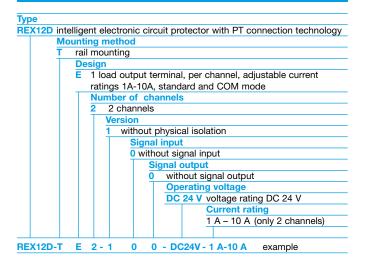
Preferred types

Preferred types	Short description	Preferred ra	Preferred ratings (A)						
REX12-TA1	1-channel	2	4	6	10	2/2	4/4	6/6	
REX12-TA1-107-DC24V-		х	х	х	х				
REX12-TA2	2-channel	2	4	6	10	2/2	4/4	6/6	
REX12-TA2-107-DC24V-						х	х	х	
REX12D-TE2	2-channel, adjustable	1A-10A							
REX12D-TE2-100-DC24V-		х							

Ordering number code - REX12-T

Туре	
REX12	Electronic circuit protector with PT connection technology
	Mounting method
	T rail mounting
	Design
	A 1 load output terminal per channel, fixed current ratings xA
	or xA/xA
	B 2 load output terminals per channel, fixed current ratings xA
	(only 1 channel) Number of channels
	1 1 channel (only 1-channel)
	2 2 channels
	Version
	1 without physical isolation
	Signal input
	0 without signal input
	Signal output
	7 status output
	Operating voltage
	DC 24 V voltage rating DC 24 V
	Current rating
	1 A (only 1 channel, Class2)
	2 A (only 1 channel, Class2)
	3 A (only 1 channel)
	4 A (only 1 channel)
	6 A (only 1 channel)
	8 A (only 1 channel) 10 A (only 1 channel)
	1 A / 1 A (only 2 channels, Class2)
	2 A / 2 A (only 2 channels, Class2)
	3 A/3 A (only 2 channels)
	4 A/4 A (only 2 channels)
	6 A/6 A (only 2 channels)
	Approval
	CL2 Class2
	(only 3A and 4A versions)
REX12 -	
REX12 -	T A 2 - 1 0 7 - DC24V - 4A / 4A - example of 2-channel

Ordering number code – REX12D-TE2



Custom designed versions

Looking for a version you cannot find in our ordering number code? Please get in touch. We will be pleased to find a solution for you.

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Overview of ordering number codes

Supply module	EM12-T00-000-DC24V-40A EM12-T01-001-DC24V-40A
Circuit protectors: 1-channel	REX12-TA1-107-DC24V-1A (Class2) REX12-TA1-107-DC24V-2A (Class2) REX12-TA1-107-DC24V-3A REX12-TA1-107-DC24V-3A-CL2 (Class2) REX12-TA1-107-DC24V-4A REX12-TA1-107-DC24V-4A-CL2 (Class2) REX12-TA1-107-DC24V-6A REX12-TA1-107-DC24V-8A REX12-TA1-107-DC24V-10A
Circuit protectors: 1-channel 2 load output terminals	REX12-TB1-107-DC24V-1A (Class2) REX12-TB1-107-DC24V-2A (Class2) REX12-TB1-107-DC24V-3A REX12-TB1-107-DC24V-3A-CL2 (Class2) REX12-TB1-107-DC24V-4A REX12-TB1-107-DC24V-4A- CL2 (Class2) REX12-TB1-107-DC24V-6A REX12-TB1-107-DC24V-8A REX12-TB1-107-DC24V-10A
Circuit protectors: 2-channel	REX12-TA2-107-DC24V-1A/1A (Class2) REX12-TA2-107-DC24V-2A/2A (Class2) REX12-TA2-107-DC24V-3A/3A REX12-TA2-107-DC24V-3A/3A-CL2 (Class2) REX12-TA2-107-DC24V-4A/4A REX12-TA2-107-DC24V-4A/4A-CL2 (Class2) REX12-TA2-107-DC24V-6A/6A
Circuit protectors 2-channel, adjustable	REX12D-TE2-100-DC24V-1A-10A
Accessories	
Supply modules	EM12-T00-100-LINE-40A EM12-T00-200-LINE-40A EM12-T00-000-GND-40A EM12-T00-300-GND-40A
Potential modules	PM12-T01-00-LOAD-20A PM12-T02-00-LOAD-20A PM12-T03-00-GND-20A

REX12-Quat-Pack-1A-10A electronic circuit protector

REX12-Quat-Pack-1A-10A

4-channel pack, selective load protection, voltage rating DC24V variable current ratings 1A-10A in 1A steps, rail mounting, installation width 37.5 mm, push-in connection technology, signalling with auxiliary contact N/O

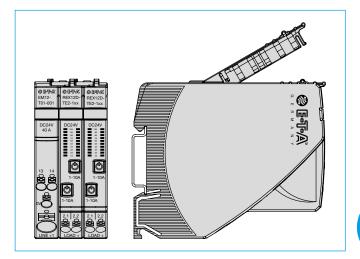
Current ratings 4 x 1A-10A adjustable

A pack consists of

- 1 supply module, EM12-T01-001-DC24V-40A
- 2 circuit protectors, 2-channel, adjustable 1-10A, REX12D-TE2-100-DC24V-1A-10A

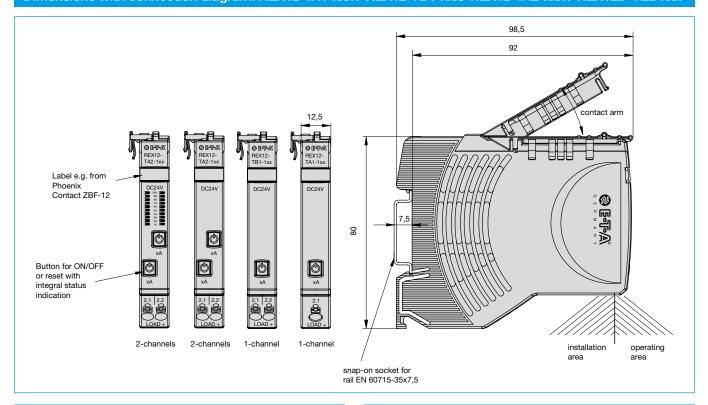
Part number: X22378501

REX12-Quat-Pack-1A-10A

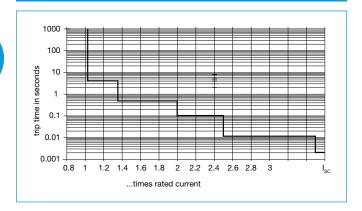


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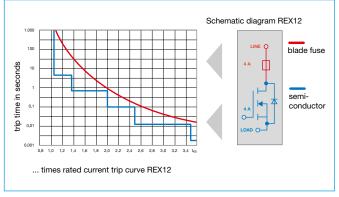
Dimensions with connection diagram: REX12-TA1-xxx / REX12-TB1-xxx/ REX12-TA2-xxx / REX12D-TE2-xxx



Time/current characteristic (T_{amb} = +23 °C, U_B = DC - 24 V)



Basic trip curve and schematic diagram REX12



Temperature factor / continuous duty

The time/current characteristic depends on the ambient temperature. In order to determine the max. load current, please multiply the current rating with the temperature factor and consider the factor for side-by-side mounting.

Temperature factor table:

ambient temperature [°C]	0	10	23	40	50	60
temperature factor	1	1	1	0.95	0.90	0.85

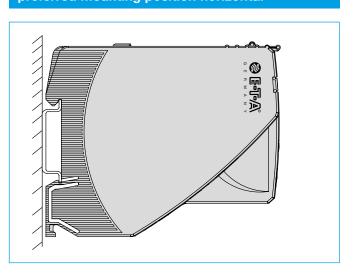
Note:

When mounted side-by-side, the devices can carry max. 80 % of their rated load or a different rating has to be selected (see Technical Information on www.e-t-a.de/ti_d)

With high temperatures, the load current warning threshold "warn limit typically 0.9 x IN" will be reduced in accordance with the temperature factor.

Selection of current rating of the circuit protector \leq rating of power supply.

Mounting position REX... preferred mounting position horizontal



❷ [⑤ REX12 Electronic Circuit Protector

Description – EM12-T supply module

The EM12-T supply module receives the DC 24 V supply voltage, e.g. from a switch mode power supply, and distributes it to the mounted circuit protectors via the integral connector arm of the REX12-T.

The potential-free auxiliary contact in the EM12-T indicates any detected failures through the circuit protector, e.g. to the superordinate control unit (CPU).

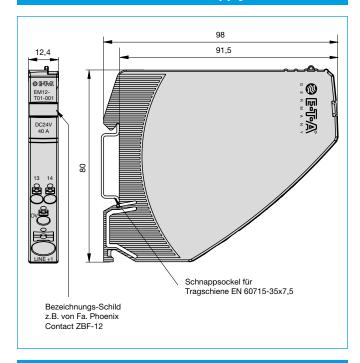
Technical data $(T_{amb} = +23 \, ^{\circ}C, U_{B} = DC \, 24 \, V)$

Operating voltage U _B	DC 24 V (1830 V)
Operating current I _B	max. 40 A
Reverse polarity protection	yes
Signalling	only EM12-T01-001-DC24V-40A
Quiescent current I ₀	typically 10 mA
Potential-free auxiliary cha	nge-over contact max. DC 30 V / 0.5 A min. 10 V / 1 mA
Group signalling Si contact: Si (13) / Si (14)	auxiliary contact, make contact
normal condition:	auxiliary contact closed based on all protection modules - when ON, load output connected - when OFF, load output disconnected
fault condition:	auxiliary contact open based on one or more protection modules - after overload or short circuit trip - after undervoltage release of operating voltage in ON condition with autoreset - at no operating voltage U _B in supply module
Insulation co-ordination	0.5 kV / pollution degree 2
Power failure buffering time for Si	up to 10 ms
Screw terminals	LINE+
Push-in terminal PT 10 stripping length	0.5 mm ² 10 mm ² flexible AWG24 – AWG8 rigid 18 mm
Screw terminals	0 V / Si 13 / Si 14
Push-in terminal PT 2.5	0.14 mm ² 2.5 mm ² flexible AWG24 – AWG14 rigid
stripping length	8 mm 10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Circuit protectors to be me REX12-Tx1-x or REX12-TA2-x or REX12D-TE2 2-channel	ounted side-by-side max. 16 pcs

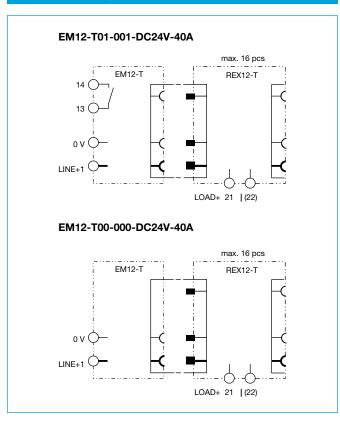
Ordering number code - EM12

Туре			
EM12	supply module for REX12, with PT connection technology		
	Mounting method		
	T rail mounting		
	Version: communication, interface		
00 without signal			
01 analog signal			
Additional functionality			
	0 without		
	Signal input		
	without signal input		
	Signal output		
	without auxiliary contact		
	1 signal make contact		
	Operating voltage		
	DC 24 V voltage rating DC 24 V		
	Current rating		
	40 A		
EM12 -	T 01 - 0 0 1 - DC 24 V - 40 A example		

Dimensions EM12-T01-xxx supply module

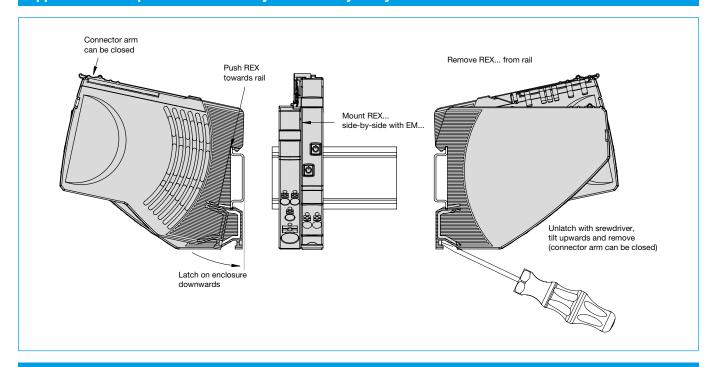


Schematic diagram EM12-Txx-xxx with REX12-xx

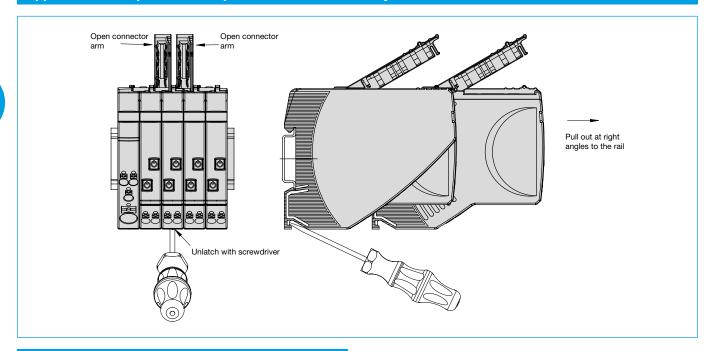


❷ [□ FA REX12 Electronic Circuit Protector

Application example: REX... assembly/disassembly on symmetrical rail



Application example: REX... Replacement or disassembly

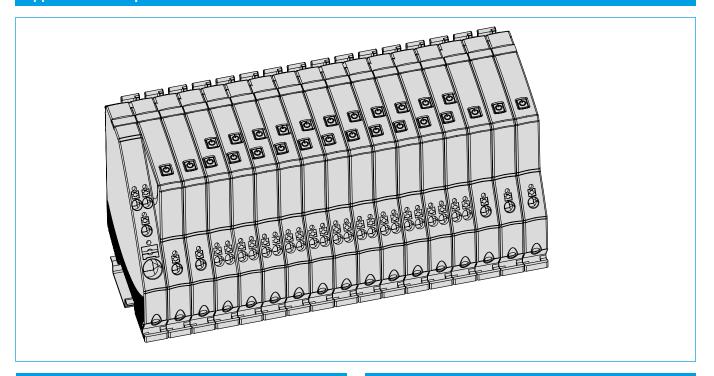


Instructions for installation

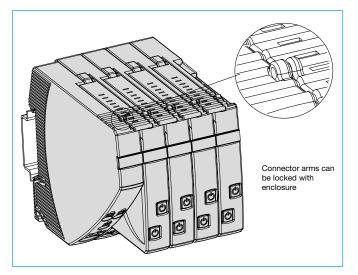
Mounting or actuation of the REX connector arm must only be effected at dead-voltage. For start-up the REX connector arm must be closed.

❷ [⑤ REX12 Electronic Circuit Protector

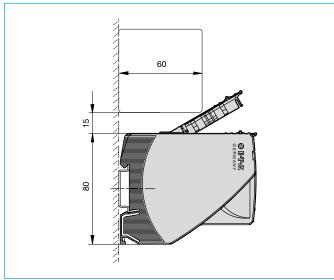
Application example: EM12-T with REX12-TA1... and REX12-TA2...



Application example: Locked connector arms



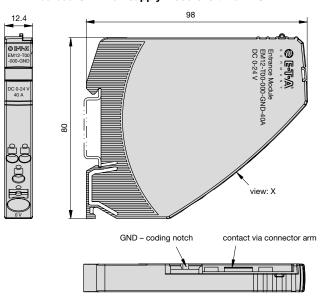
Application example: REX12(D)-T... distance between cable duct and connector arm



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 are 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, performance and cost effectiveness, 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. Ordering codes of the products may differ from their marking.

Accessories

EM12-T00-000-GND-40A supply module left – 0V – GND



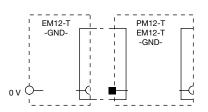
Technical data

view: X

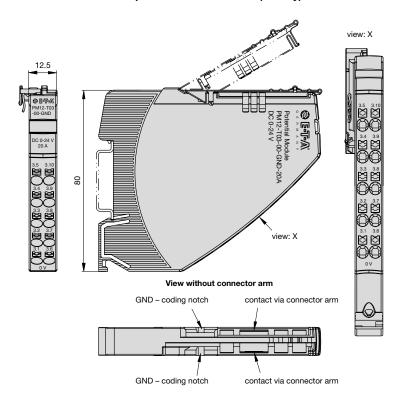
Please observe general da	ta of REX / EM / PM
Operating voltage U _B	0 V - DC 24 V (0 30 V)
Operating current I _B	max. load 40 A
line terminal	0 V – GND
Push-in terminal PT 10 stripping length	0.5 mm² 10 mm² flexible AWG24 – AWG8 rigid 18 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 40 g
Approvals	UL 1059, File # E335289

Schematic diagram

EM12-T00-000-GND-40A



PM12-T03-00-GND-20A potential module - GND (10-way)

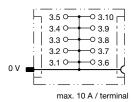


Technical data

Please observe general data	of REX / EM / PM
Operating voltage U _B	0 V - DC 24 V (0 30 V)
Operating current I _B	max. load 20 A
line terminal	0 V – GND
Push-in terminal PT 2.5 stripping length	0.14 mm ² 2.5 mm ² flexible AWG24 – AWG14 rigid 8 mm 10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Approvals	UL 1059, File # E335289

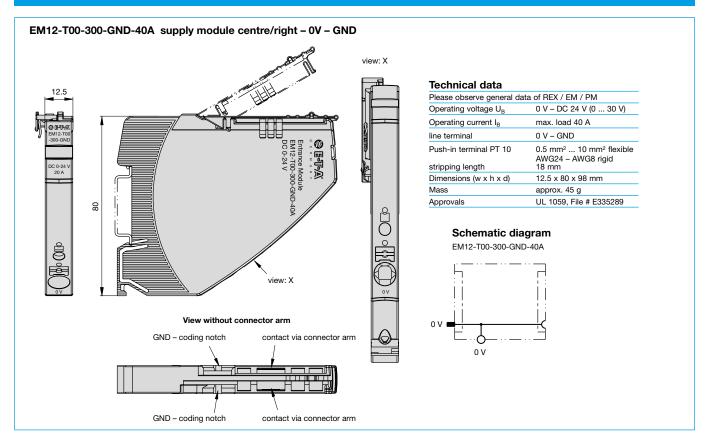
Schematic diagram

PM12-T03-00-GND-20A

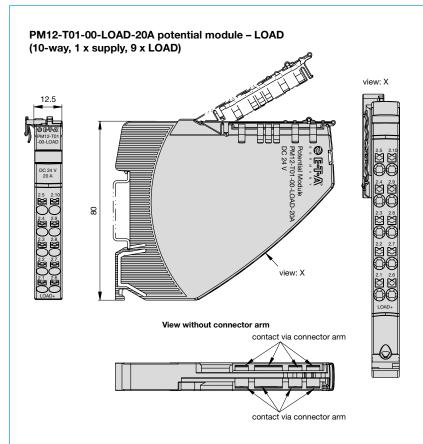


❷ 国际风 REX12 Electronic Circuit Protector

Accessories



Accessories

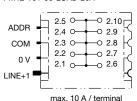


Technical data

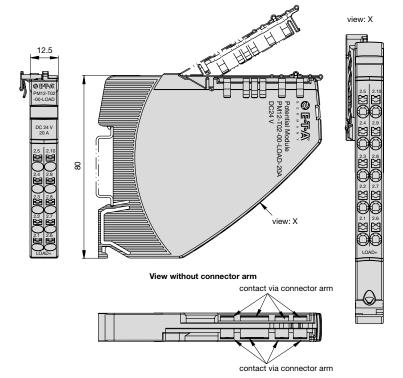
Please observe general dat	ta of REX / EM / PM
Operating voltage U _B	DC 24 V (1830 V)
Operating current I _B	max. load 20 A
Insulation co-ordination	0.8 kV / pollution degree 2
Screw terminals	LOAD+
Push-in terminal PT 2.5	0.14 mm ² 2.5 mm ² flexible AWG24 – AWG14 rigid 8 mm 10 mm
stripping length	8 mm 10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Approvals	UL 1059, File # E335289

Schematic diagram

PM12-T01-00-LOAD-20A



PM12-T02-00-LOAD-20A potential module – LOAD (2 x 5-way, 1 x supply and 4 x LOAD each)

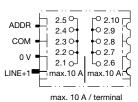


Technical data

Please observe general dat	a of REX / EM / PM
Operating voltage U _B	DC 24 V (1830 V)
Operating current I _B	max. load 20 A
Insulation co-ordination	0.8 kV / pollution degree 2
Screw terminals	LOAD+
Push-in terminal PT 2.5 stripping length	0.14 mm ² 2.5 mm ² flexible AWG24 – AWG14 rigid 8 mm 10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Approvals	UL 1059, File # E335289

Schematic diagram

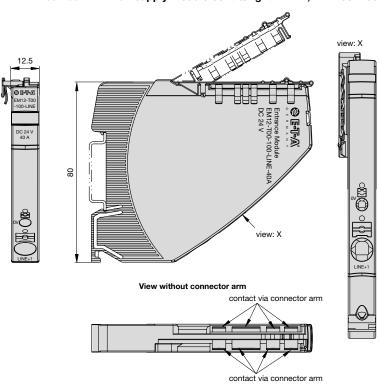
PM12-T02-00-LOAD-20A



❷ 国际风 REX12 Electronic Circuit Protector

Accessories

EM12-T00-100-LINE-40A supply module centre/right – LINE, LINE connected

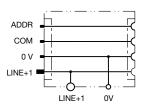


Technical data

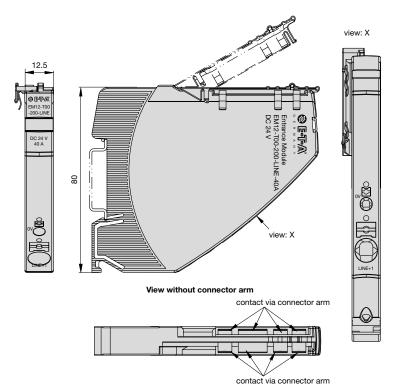
recililical data	
Please observe general dat	a of REX / EM / PM
Operating voltage U _B	DC 24 V (1830 V)
Operating current I _B	max. load 40 A
Insulation co-ordination	0.8 kV / pollution degree 2
Screw terminals	LINE+1
Push-in terminal PT 10 stripping length	0.5 mm² 10 mm² flexible AWG24 – AWG8 rigid 18 mm
Screw terminals	0 V
push-in terminal PT 2.5 Stripping length	0.14mm² 2.5mm², flexible AWG26 – AWG14 rigid 8 mm 10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Approvals	UL 1059, File # E335289

Schematic diagram

EM12-T00-100-LINE-40A



EM12-T00-200-LINE-40A supply module centre/LINE, LINE separated

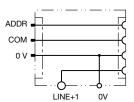


Technical data

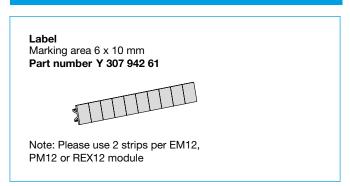
Please observe general data	of REX / EM / PM
Operating voltage UB	DC 24 V (1830 V)
Operating current IB	max. load 40 A
Insulation co-ordination	0.8 kV / pollution degree 2
Screw terminals	LINE+1
Push-in terminal PT 10 stripping length	0.5 mm ² 10 mm ² , flexible AWG24 – AWG8 rigid 18 mm
Screw terminals	0 V
Push-in terminal PT 2.5 stripping length	0.14mm ² 2.5mm ² , flexible AWG24 – AWG14 rigid 8 mm 10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Approvals	UL 2367. File # E306740:

Schematic diagram

EM12-T00-200-LINE-40A



Accessories



Application example: EM12-T ... with REX12-TAx... and PM12-...

