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 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.



US patent number: US 9,899,807 B2

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 1 A 10 A
- 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 4

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 ratir	ngs (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	1 A10 A						
REX12D-TE2-100-DC24V-		х						

Approvals



Compliances



Data sheet

The current data sheet is available on our website: www.e-t-a.de/d359

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:

Operating voltage U _B DC 24 V (1830 V)
Closed-circuit current I ₀
REX12-Tx1 1-channel in ON condition: Typically 5 mA
REX12-TA2 2-channel in ON condition: Typically 8 mA
REX12D-TE2 1 A-4 A 2-channel in ON condition: Typically 9 mA
REX12D-TE2 1 A-10 A 2-channel in ON condition: Typically 12 mA

REX12D-TE2 1 A-10 A 2-channel in ON condition: Typically 12 mA				
Reverse polarity protection	Yes			
Power failure buffering time	up to 10	ms		
Rated current I _N REX12-Tx1 REX12-TA2 REX12D-TE2	ratings: 1 A, 2 A, 3 A, 4 A, 6 A, 8 A, 10 A 1 A/1 A, 2 A/2 A, 3 A/3 A, 4 A/4 A, 6 A/6 A 1 A-4 A, 1 A-10 A condition upon deliver max. current rating			
Visual status indication by means of LED	green: green/or blinking: orange:	ange load current warning limit reached 90 %		
	red:	 after disconnection due to overload or short circuit after undervoltage release of operating voltage in ON condition with autoreset 		
	OFF:	Device switched off by means of ON/OFF momentary switch or no operating voltage		

Load circuit			
Load output	putput power MOSFET switching output (plus switching)		
Load current warning limit hysteresis	(I _{WLimit})	typically 0.9 x I _N typically 5 %	
Overload current disconnection (I _{ÜL})		_L : I _N x 1.05 t _{OL} : 3s _I : I _N x 1.35 t _{OL} : 0,5s	
with trip times ($t_{\ddot{U}L}$)	typically I _O	L: I _N x 2.00 t _{OL} : 0.1s L: I _N x 2.50 t _{OL} : 0.012 s	
short circuit		short circuit (I _{SC}) t _{SC} : 0.002 s ²⁾	
trip time (t _{SC})	see time/c	urrent characteristic	
Influence of ambient temperature on overload disconnection	see tempe	rature factor table	

Voltage drop in load circui	at I _N and	at I _N 70 %	for REX12-Txx
between LINE+ and LOAD	+		

and load current warning limit

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 %	typically 120 mV

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

REX12D-TE2	2-100-DC24V-	-1A-4A	-CL2			
I _{N:} 1 A-CL2	typically 50	mV	I _N :	70	%	typically 42 mV
I _{N:} 2 A-CL2	typically 90) mV	I _N :	70	%	typically 70 mV
I _{N:} 3 A-CL2	typically 13	35 mV	I _N :	70	%	typically 95 mV
I _{N:} 4 A-CL2	typically 18	30 mV	I _N :	70	%	typically 120 mV
REX12D-TE2	2-100-DC24V-	-1A-10/	Α			
I _N : 1 A	typically 30) mV	I _N :	70	%	typically 28 mV
I _N : 2 A	typically 39	9 mV	I _N :	70	%	typically 34 mV
I _N : 3 A	typically 48	3 mV	I _N :	70	%	typically 40 mV
I _N : 4 A	typically 57	7 mV	I _N :	70	%	typically 46 mV
I _N : 5 A	typically 66	3 mV	I _N :	70	%	typically 52 mV
I _N : 6 A	typically 74	1 mV	I _N :	70	%	typically 59 mV
I _N : 7 A	typically 83	3 mV	I _N :	70	%	typically 65 mV
I _N : 8 A	typically 92	2 mV	I _N :	70	%	typically 71 mV
I _N : 9 A	typically 10	01 mV	I _N :	70	%	typically 77 mV
I _N : 10 A	typically 1	10 mV	I _N :	70	%	typically 83 mV
2) depending on	power source					
Fail-safe eler	ment	I _N : 1 A	A (CL2)		fa	l-safe I _N : 1 A
integral		I _N : 2 A	(CL2)		fa	I-safe I _N : 2 A

_/		
Fail-safe element integral blade fuse adjusted to related current rating I _N	I _N : 3 A/3 A I _N : 3 A/3 A-CL2 I _N : 4 A/4 A	fail-safe I_N : 2 A/2 A fail-safe I_N : 3.15A/3.15A fail-safe I_N : 4 A/4 A fail-safe I_N : 4 A/4 A fail-safe I_N : 4 A/4 A fail-safe I_N : 6.3 A/6.3 A fail-safe I_N : 4 A
operating voltage monitoring re. undervoltage	OFF at typically ON at typically hysteresis typical	U _B > 19.0 V

undervoltage	hysteresis typically 2 V with automatic OFF and ON switching
ON delay - with power ON	channel 1: typically 100 ms (REX12-TAx) channel 2: typically 200 ms (REX12-TAx) channel 1: typically 1,500 ms (REX12D-TE2) channel 2: typically 1,600 ms (REX12D-TE2)

- when switching on with channel 1: typically 5 ms channel 2: typically 100 ms ON /OFF switch or - after undervoltage channel 1: typically 5 ms channel 2: typically 5 ms

disconnection of - manually on the device with the ON/OFF momentary switch

- after an overload / short circuit disconnection with storage (no automatic reset)

- temporarily at undervoltage

- at no operating voltage

Switch-on of load circuit

- momentary switch ON/OFF

device can only be switched on when operating voltage is applied The device starts up with the condition - applying operating voltage

② E F A REX12 Electronic Circuit Protector

Technical data (T_{amb} = +23 °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 OR-ANGE in a puls/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 re-starts 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 REX12D-TE2

The adjustment mode directly on the REX12D-TE2 can only be activated in the 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. GREEN 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 returns to current status indication.

The adjustment mode is possible in all operating conditions (ON, OFF, UNDER-VOLTAGE and TRIPPED).

Go to video **Mounting and operation:**



Reset function a blocked load output (blocked by overload / short circuit) can externally

Leakage current in load circuit in OFF condition

be reset by the ON/OFF momentary switch typically <1 mA

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

lechnical data	$(I_{amb} = +23 {}^{\circ}C, U_B = DC 24 V)$
Capacitive loads	up to 20,000 μF:
	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
Status output SM	status indicator in REX system
Electrical data	minus switching signal output Group signalling is implemented in con- nection with EM12-T supply module
Terminals LOAD+	
Push-in terminal PT 2.5	0.14 mm ² 2.5 mm ² flexible AWG24 – AWG14 rigid
stripping length	8 mm10 mm
Dimensions (w x h x d)	12.5 x 80 x 98.5 mm
REX12-TA1-xxx 1-chan REX12-TB1-xxx 2-chan REX12-TA2-xxx 2-chan REX12D-TE2-xxx 2-chan	nnel approx. 60 g nel approx. 58 g annel approx. 62 g
General data REX / E	M / PM
Housing material	moulded
Mounting	symmetrical rail to EN 60715-35x7.5
Ambient temperature T _I	U -25 °C+60 °C (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 class 3K3 to EN 60721
Altitude	2,000 m above sea level 3,000m above sea level up to +55 °C 4,000m above sea level up to +50 °C
Operation pressure	4 bar above atmospheric pressure
Corrosion only PM and	96hrs. in 5 % salt mist to IEC 60068-2-11 test Ka

terminal area EM, PM:	IP20		
EMC requirements (EMC directive, CE logo)	noise emission susceptibility:	EN 61000-6-3 EN 61000-6-2	
Insulation co-ordination (IEC 60934)	0.5 kV / pollution	degree 2	
Dielectric strength	max. DC 30 V (load circuit)		

CE marking

Degree of protection (IEC 60529, DIN VDE 0470)

IP30

5 g test to IEC 60068-2-6, test Fc

n/a, only electronic disconnection

2306 www.e-t-a.de

EM accessories

operating area REX12:

Insulation resistance

(OFF condition)
Conformity

Vibration

② E F A REX12 Electronic Circuit Protector

Approvals and standards

Approval authority	Standard	UL file no.	Voltage ratings	Current rating range
UL	UL 2367, UL 1310 NEC Class2	E306740	DC 24 V	110 A 1 A, 2 A, 3 A, 4 A, 1 A4 A
UL	UL 508 listed, CSA C22.2 No. 14	E492388	DC 24 V	1 A10 A

PM and EM – accessories approvals see technical data of accessories

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.

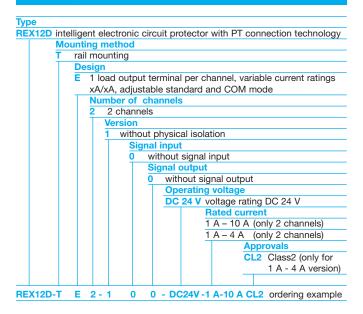
Preferred types

Preferred types	Short description	Preferred ra	atings (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	1 A10 A						
REX12D-TE2-100-DC24V-		х						

Ordering number code - REX12-T

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

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.

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 termi- nals	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-4A-CL2 (Class 2) 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

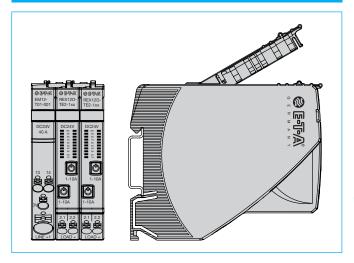
current ratings 4 x 1A-10A adjustable

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

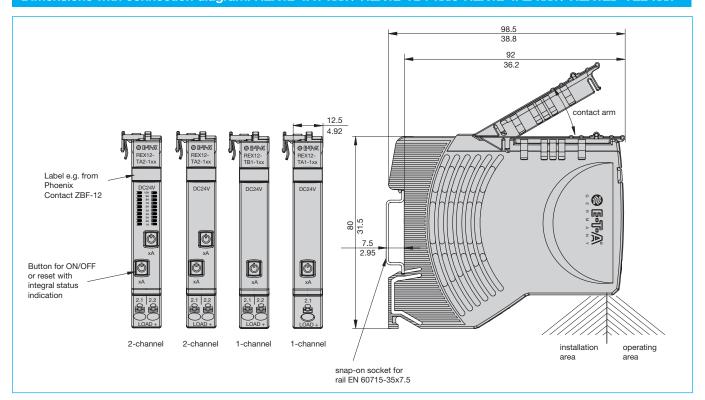
part number: X22378501

REX12-Quat-Pack-1A-10A

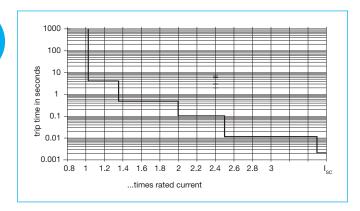


4

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



Typical time/current characteristic (T_{amb} = +23 °C, UB = DC - 24 V)



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

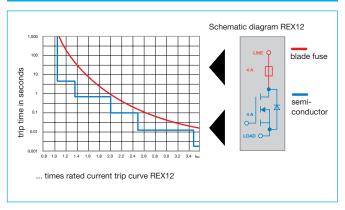
Note:

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)

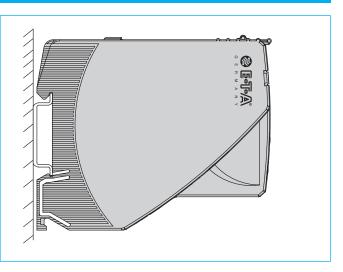
With high temperatures, the load current warning threshold "warn limit typically 0.9 x IN" will be reduced in accordance with the temperature factor.

Selection of current rating of the circuit protector ≤ rating of power supply.

Basic trip curve and schematic diagram REX12



Mounting position REX... preferred mounting position horizontal



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).

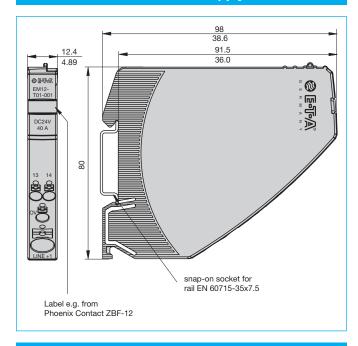
Technical data $(T_{amb} = +23 \, ^{\circ}C, U_{B} = DC \, 24 \, V)$

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 ch	ange-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	Si up to 10 ms
Screw terminals	LINE+
Push-in terminal PT 10	0.5 mm ² 10 mm ² flexible AWG24 – AWG8 rigid
stripping length	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 mm10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Circuit protectors can be REX12-Tx1-x or REX12-TA2-x or REX12D-TE2 2-channel	mounted side-by-side max. 16 pcs

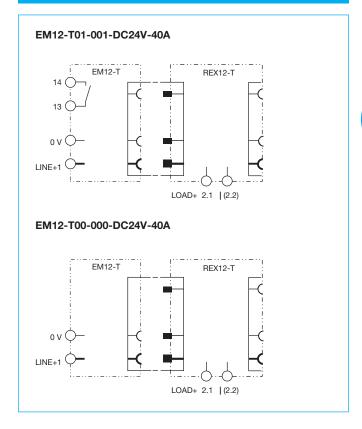
Ordering number code - EM12

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
	Rated current
	40 A
EM12 -	T 01 - 0 0 1 - DC 24 V - 40 A ordering example

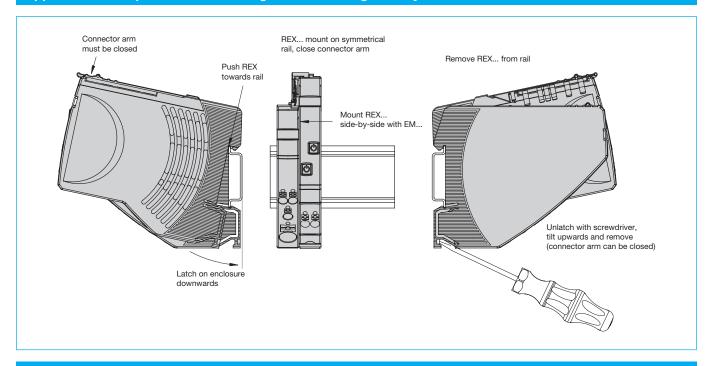
Dimensions EM12-T01-xxx supply module



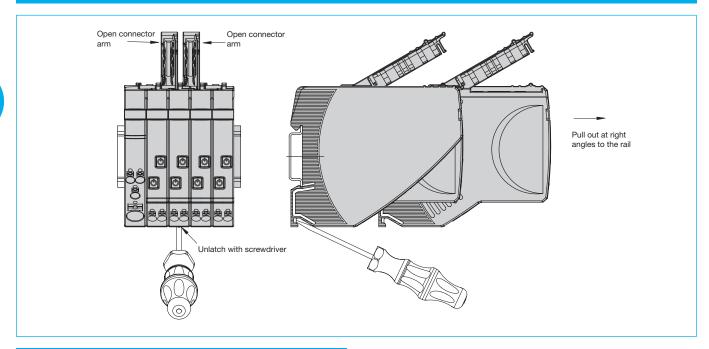
Schematic diagram EM12-Txx-xxx with REX12-xx



Application example: REX... mounting on or removing from symmetrical rail



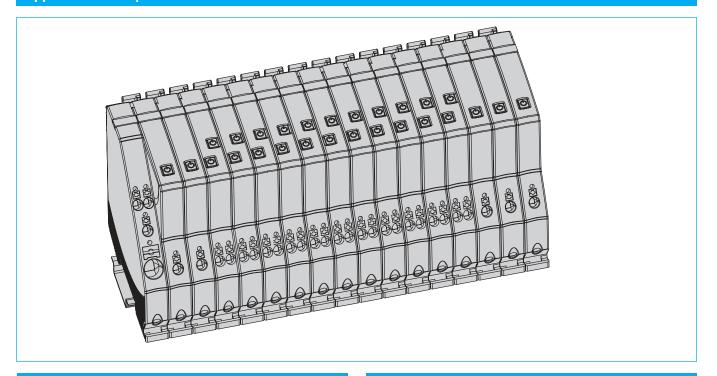
Application example: REX... Replacement or disassembly



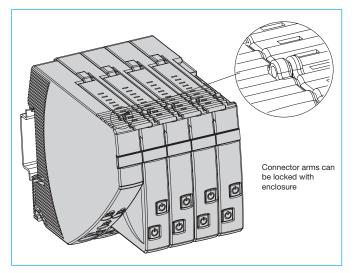
Instructions for installation

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.

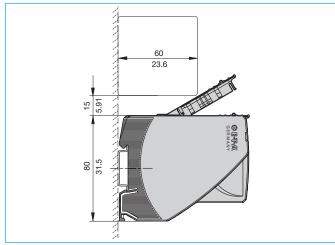
Application example: EM12-T with REX12-TA1... and REX12-TA2...



Application example: REX... Locked connector arms



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

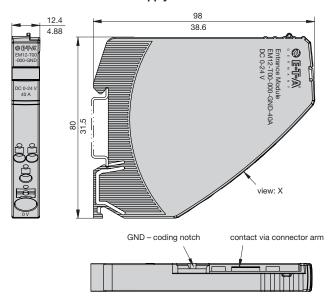


All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in 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.

4

Accessories

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



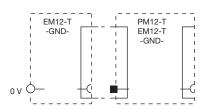
Technical data

view: X

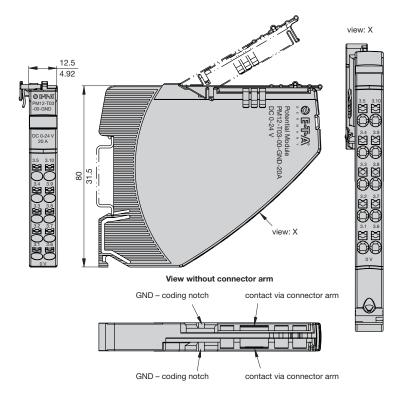
Please observe general dat	ta of REX / EM / PM
Operating voltage U _B 0 V -	DC 24 V (030 V)
Operating current I _B	max. load 40 A
line terminal	0 V – GND
Push-in terminal PT 10 stripping length	0.5 mm ² 10 mm ² flexible AWG24 – AWG8 rigid 18 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 40 g
Approvals	UL 1059, File # E335289

Schematic diagram

EM12-T00-000-GND-40A



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

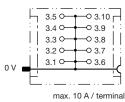


Technical data

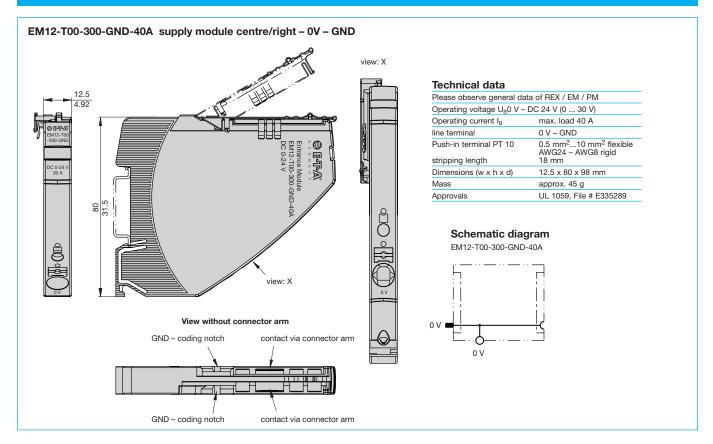
Please observe general data	of REX / EM / PM
Operating voltage U _B 0 V - D	OC 24 V (0 30 V)
Operating current I _B	max. load 20 A
line terminal	0 V – GND
Push-in terminal PT 2.5	0.14 mm ² 2.5 mm ² flexible AWG24 – AWG14 rigid
stripping length	8 mm10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Approvals	UL 1059, File # E335289

Schematic diagram

PM12-T03-00-GND-20A

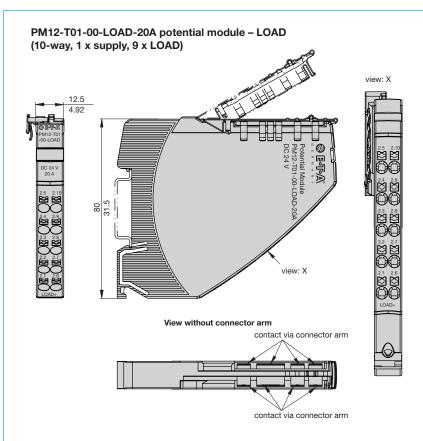


Accessories



4

Accessories



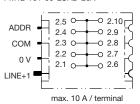
❷ 国际风 REX12 Electronic Circuit Protector

Technical data

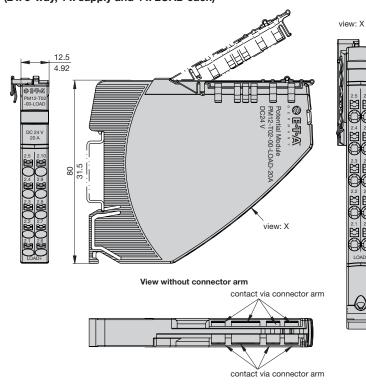
Please observe general data	of REX / EM / PM
Operating voltage U _B	DC 24 V (1830 V)
Operating current I _B	max. load 20 A
Insulation co-ordination	0.8 kV / pollution degree 2
Screw terminals	LOAD+
Push-in terminal PT 2.5	0.14 mm ² 2.5 mm ² flexible AWG24 – AWG14 rigid
stripping length	8 mm10 mm
Dimensions (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)

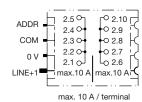


Technical data

Please observe general data	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 mm10 mm
Dimensions (w x h x d)	12.5 x 80 x 98 mm
Mass	approx. 52 g
Approvals	UL 1059, File # E335289

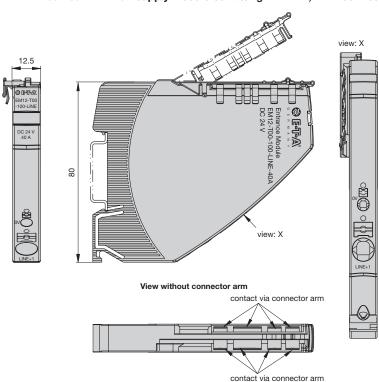
Schematic diagram

PM12-T02-00-LOAD-20A



Accessories

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

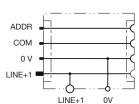


Technical data

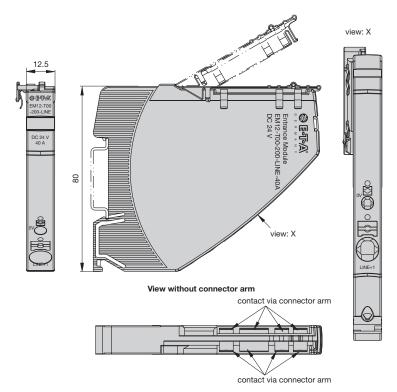
recrimical data	
Please observe general da	ta of REX / EM / PM
Operating voltage U _B	DC 24 V (1830 V)
Operating current I _B	max. load 40 A
Insulation co-ordination	0.8 kV / pollution degree 2
Screw terminals	LINE+1
Push-in terminal PT 10 stripping length	0.5 mm ² 10 mm ² flexible AWG24 – AWG8 rigid 18 mm
Screw terminals	0 V
push-in terminal PT 2.5 Stripping length	0.14mm²2.5mm², 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

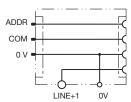


Technical data

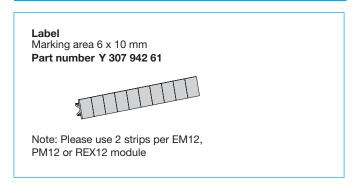
Please observe general data	of REX / EM / PM
Operating voltage U _B	DC 24 V (1830 V)
Operating current I _B	max. load 40 A
Insulation co-ordination	0.8 kV / pollution degree 2
Screw terminals	LINE+1
Push-in terminal PT 10	0.5 mm ² 10 mm ² flexible AWG24 – AWG8 rigid
stripping length	18 mm
Screw terminals	0 V
Screw terminals Push-in terminal PT 2.5 stripping length	0 V 0.14mm ² 2.5mm ² flexible AWG24 – AWG14 rigid 8 mm10 mm
Push-in terminal PT 2.5	0.14mm ² 2.5mm ² flexible AWG24 – AWG14 rigid
Push-in terminal PT 2.5 stripping length	0.14mm ² 2.5mm ² flexible AWG24 – AWG14 rigid 8 mm10 mm

Schematic diagram

EM12-T00-200-LINE-40A



Accessories



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

