

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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② 国际公 REX12D Electronic Circuit Protector

Description

The compact and flexible all-in-one solution REX consists of several perfectly matched components. It comprises the EM12D-T / EM12-T supply module for the plus and minus potential via a single or double channel REX12D-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.

The requirements regarding modern machinery and equipment are constantly growing. System transparency, remote maintenance and remote access are getting more and more important in international competition. Early notification in the event of any disturbances and a fast response to current problems will increase system availability, save costs and improve the overall stability of the production process.

E-T-A provides the ideal solution for machine and panel builders with the intelligent REX12D protection system and the EM12D interface module. The system combines the well-proven quality of DC24V overcurrent protection with the communication options of the IO link and Modbus RTU system. It allows complete transparency of the DC24V power supply and provides all necessary information for a reliable production process in this plant sector.

The 12.5 mm wide modules feature a modular design with push-in technology for wiring with press release buttons and allow no-tool time-saving and maintenance-free wiring.

And what is more: no additional accessories are required when connecting the individual components electrically and mechanically. This helps save time and money!

Features

- Control, diagnosis and monitoring via IO link and Modbus RTU
- 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 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
- Connection via push-in terminals including press release buttons



Benefits

- Increases machine availability through high transparency and remote diagnosis
- 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

Approvals



Compliances



Data sheet

The current data sheet is available on our website: www.e-t-a.de/e751

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2) depending on power source

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

REX12D-Txx-xxx circuit protectors

REX12D-TXX-XXX CIRCUIT REX12D-TA1-100-DC24V REX12D-TA2-100-DC24V REX12D-TE2-100-DC24V	-xA -xA/xA	1-channel 2-channel 2-channel
REX12D-TE2 can be operating mode EM12D-T	ated both (COM m	e COM mode with EM12D-T. The n with EM12D-T or EM12-T. The node) or EM12-T (standard) is wing data exclusively refer to the
Operating voltage U _B	DC 24 V	/ (1830 V)
Closed current I ₀ REX12D-TA1 1-channel REX12D-TA2 2-channel REX12D-TE2 1A-10A 2-ch	ir	n ON condition: typically 7 mA n ON condition: typically 10 mA n ON condition: typically 12 mA
Reverse polarity protection	Yes	
Power failure buffering time	up to 10	ms
Rated current I _N REX12D-TA1 REX12D-TA2 REX12D-TE2		2 A/2 A, 3 A/3 A, 4 A/4 A, 6 A/6 A A condition upon delivery: max.
Visual status indication	green:	- load circuit connected
of operating condition by multicoloured LED:	green/or blinking:	range : - load current warning limit reached 50 % - 100 %
	orange:	 overload or short circuit until disconnection
		 circuit protector was switched off by the superordinate control unit LED is permanently orange
	red:	 after disconnection due to overload or short circuit
		 after undervoltage release of operating voltage in ON condition with autoreset
	OFF	Device was switched off via ON/ OFF momentary switch, or due to lacking operating voltage or faulty initialisation of the circuit protector
Load circuit		
Load output	power N (plus sw	IOSFET switching output ritching)
Load current - warning limit (I _{WLimit})	typically	v 0.5 - 1.0 x I _N (parameterisable)
hysteresis	typically	
Overload current disconnection (I _{ÜL}) with trip times (t _{ÜL})	typically typically typically	\langle \(\langle \la
short circuit trip time (t _{SC})		at short circuit (I _{SC}) t _{SC} : 0.002 s ²⁾ e/current characteristic
Influence of ambient temperature on		perature factor table
overload disconnection and load current - warning	ı limit	
Continuous Current IC		r 0.8 x I _N re Element is protected by REX12)
2) depending on nower source		

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

recnnical da	ita (I _a	amb – T2	.0 0,	, oB – i	DC 24 V)
Fail-safe element (integral blade fuse adjusted to related current rati	ing I _N)		A (CL2 A -CL2 A -CL2)fail-safe fail-safe fail-safe fail-safe fail-safe	I _N : 1 A / 1 A I _N : 2 A / 2 A I _N : 3.15 A / 3.15 A I _N : 4 A / 4 A I _N : 4 A / 4 A I _N : 6.3 A / 6.3 A I _N : 8 A
		I _N : 10 A I _N : 1 A-10) Δ		I _N : 10 A IN: 16A
I _N : 2 A (CL2) typ I _N : 3 A typ I _N : 3 A-CL2 typ		t at I _N and 0+ 80 mV 10 mV 20 mV 30 mV		0 % 0 % 0 % 0 %	typically 125 mV typically 80 mV typically 85 mV typically 90 mV typically 80 mV
I _N : 4 A-CL2 typ I _N : 6 A typ I _N : 8 A typ	pically 1 pically 1 pically 1 pically 1	80 mV 70 mV 60 mV	I _N : 7 I _N : 7 I _N : 7 I _N : 7	0 % 0 % 0 %	typically 120 mV typically 110 mV typically 105 mV typically 120 mV
Voltage drop in loa REX12D-TEx betw				70 % for	
I _N : 2 A ty I _N : 3 A ty I _N : 4 A ty I _N : 5 A ty I _N : 6 A ty I _N : 7 A ty I _N : 8 A ty I _N : 9 A ty	rpically 3 rpically 3 rpically 4 rpically 5 rpically 6 rpically 7 rpically 8 rpically 1 rpically 1	80 mV 89 mV 18 mV 67 mV 66 mV 74 mV 83 mV 92 mV 101 mV 110 mV OFF at ty ON at typ with autor	typically typical typical depends	0% $0%$ $0%$ $0%$ $0%$ $0%$ $0%$ $0%$	ms (REX12D-TAx) is (REX12D-TAx) ms (REX12D-TE2, he slot) ms (REX12D-TE2,
- when switching of means ON/OFF I or - after		channel 1 channel 2 channel 1	: :	typically	100 ms 5 ms
undervoltage disconnection of loa	ad circuit	ON/OFF - remote of control of - after an	y on the mome contro unit overlo	entary sw I via the s ad / shor	with the

temporarily at undervoltageat no operating voltage

❷ [⑤ REX12D Electronic Circuit Protector

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

Switch on of load circuit - momentary switch ON/OF	FThe circuit protector can be switched on by the superordinate control unit or otherwise directly on the device. These two options are linked with AND. Switchon is only possible if switched on from both positions. If the circuit protector was switched off either by the control unit or by the momentary switch directly on the device, switch-on has to be effected also from the corresponding position.
- apply operating voltage	For switch-on the device has to be supplied with operating voltage. The device re-starts with the last stored condition.
Enquire adjusted current rating with REX12D-TE2	Enquiry of currently adjusted current rating is, 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 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).
Reset function	a blocked load output (blocked by overload / short circuit) can be reset by the ON/OFF momentary switch or by the superordinate control unit.
Leakage current in load circuit in OFF condition	typically <1 mA
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

Technical data (T	_{amb} = +23 °C, U _B = DC 24 V)	
Terminals LOAD+		
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 98.5 mm	
Mass REX12D-TA1-xxx 1-chanr REX12D-Tx2-xxx 2-chanr	•	
General data REX / EM	/ PM	
Housing material	moulded	
Mounting	symmetrical rail to EN 60715-35x7.5	
Ambient temperature	-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 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 only PM and EM accessories	96 hrs. in 5 % salt mist to 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	

0.5 kV / pollution degree 2 max. DC 30 V (load circuit)

CE marking

n/a, only electronic disconnection

Insulation co-ordination

Dielectric strength Insulation resistance

(OFF condition) Conformity

(IEC 60934)

Notes

- The intelligent EM12D-T supply module is only meant for use with extra-low voltage (DC 24 V).
- Connection to a higher or not reliably disconnected voltage can cause hazardous conditions or damages.
- Only the intended circuit protectors must be used.
- The technical data of the circuit protectors used have to be observed.
- The entire power distribution system must only be installed by qualified personnel.
- Only after expert installation must the device be supplied with power.
- After tripping of the circuit protector and before reset, the cause of the failure (short circuit or overload) must be remedied..
- The national standards (e.g. for Germany DIN VDE 0100) have to be observed for installation and selection of feed and return cables.
- For convenient adjustment and configuration by means of projecting software a master data file (GSDML file) will be made available for downloading on the E-T-A homepage.

Please observe separate user manual of the EM12D-T.

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 – accessories approvals see technical data of accessories cULus508listed pending for REX12D-TE2 and EM12D-TMB

Ordering number code

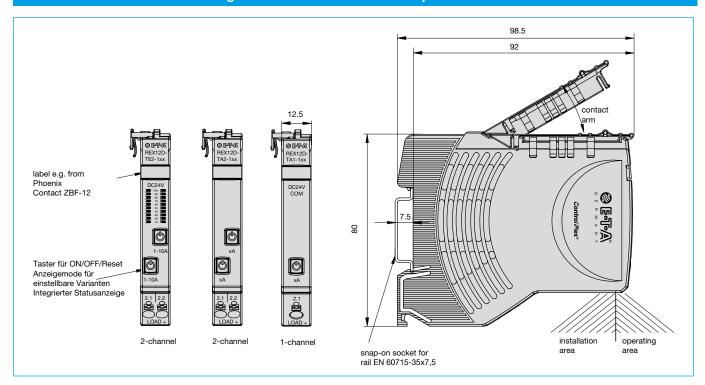
Туре
REX12D intelligent electronic circuit protector with PT connection technology
Mounting method
T rail mounting
Design
A 1 load output terminal per channel, fixed current ratings xA
or xA/xA
E 1 load output terminal per channel, variable current ratings
xA/xA, adjustable standard and COM mode
Number of channels
1 1 channel
2 2 channels Version
1 without physical isolation Signal input
0 without signal input
Signal output
0 without signal output
Operating voltage
DC 24 V voltage rating DC 24 V
Current rating
8 A (only 1 channel)
10 A (only 1 channel)
1 A / 1 A (only 2 channels, Class
2 A / 2 A (only 2 channels, Class
3 A/3 A (only 2 channels)
4 A/4 A (only 2 channels)
6 A/6 A (only 2 channels)
1 A - 10 A (only 2 channels)
Approval Approval
CL2 Class2
only 3A and 4A versions
DEVICE T
REX12D-T A 1 - 1 0 0 - DC24V - 10A example 1 channe
REX12D-T A 2 - 1 0 0 - DC24V - 4A/4A-CL2 example 2 channe
REX12D-T E 2 - 1 0 0 - DC24V - 1 A-10 A example variable

Overview of ordering number codes

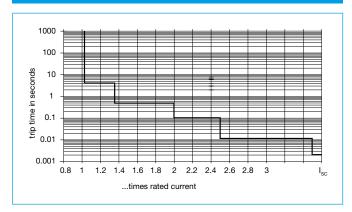
Supply module	EM12D-TIO-000-DC24V-40A EM12D-TMB-000-DC24V-40A
Circuit protectors: 1-channel	REX12D-TA1-100-DC24V-8A REX12D-TA1-100-DC24V-10A
Protection modules: 2-channel	REX12D-TA2-100-DC24V-1A/1A (Class2) REX12D-TA2-100-DC24V-2A/2A (Class2) REX12D-TA2-100-DC24V-3A/3A REX12D-TA2-100-DC24V-3A/3A-CL2 (Class2) REX12D-TA2-100-DC24V-4A/4A REX12D-TA2-100-DC24V-4A/4A-CL2 (Class2) REX12D-TA2-100-DC24V-6A/6A 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

❷ [⑤ REX12D Electronic Circuit Protector

Dimensions with connection diagram: REX12D-Txx-xxx circuit protectors



Time/current characteristic (T_{amb} = +23 °C, U_B = 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

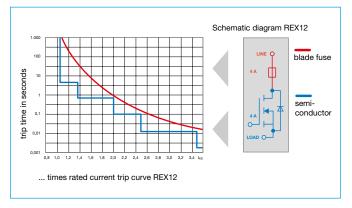
Note:

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)

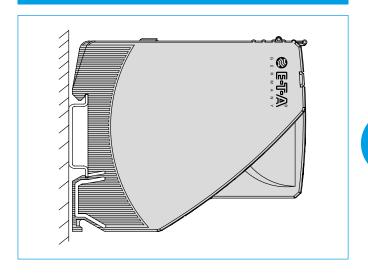
With high temperatures, the load current warning threshold "warn limit typically 0.5 ... 1 x $\rm I_N$ " will be reduced in accordance with the temperature factor.

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

Basic trip curve and schematic diagram REX12



Mounting position REX... preferred mounting position horizontal



Description - EM12D-Txx supply module

The EM12D-T supply module receives the DC 24 V supply voltage, e.g. from a switched mode power supply, and distributes it to the installed intelligent circuit protectors via the integral connector arm of the REX12D-T. The communication interface of the EM12D-T, which is designed as an IO link7Modbus RTU device, allows a great number of diagnosis and control commands to a superordinate IO link/Modbus RTU master of the control level.

Technical data (T_{amb} = +23 °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
Quiescent current I ₀	typically 20 mA
Insulation co-ordination	0.5 kV / pollution degree 2
Power failure buffering time	up 10ms
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
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. 56 g
Modules to be mounted si REX12D-TA1 1-channel	de-by-side

REX12D-TA2 2-channel

REX12D-TE2 2-channel max.16 channels

Visual status indication of operating condition / via multicoloured LED:

areen:

faultless operation communication to IO link/ Modbus master available

areen

blinking: independent operation no communication to IO link/

Modbus master

red:

critical fault detected communication to IO link/ Modbus master not available

non-critical fault detected orange:

communication to IO link/ Modbus master available

orange

blinking: uncritical fault detected

communication to IO link/ Modbus master not available

red

blinking: bootloader mode active

no communication to IO link/ Modbus master

IO link connection X81 COM interface to IO link master

IO link L+ DC +24V terminal 1 connector 2: IO link C/Q connector 3: IO link 1 -

When wiring and connecting to the point-to-point communication IO link, the installation and wiring regulations of the PROFIBUS-DP User Organisation (PNO) have to be observed.

Push-in terminals PT xx

connector, 3-pole (plugged on) $0.25 - 0.5 \text{ mm}^2$ stripping length 6 mm

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

Modbus connection with Modbus Master/other devices (X81/ X82)

X81 COM:

Connection with Modbus Master/

other Modbus devices connector 1: MB-A connector 2: MR-B connector 3: **GND**

X82 COM: Connection with Modbus Master/

other Modbus devices connector 1: MR-A connector 2: MB-B connector 3: **GND**

terminals: connectors, 3-pin (plugged on)

cable cross section flexible with wire end ferrule

0.25 - 0.5 mm² (without plastic sleeve)

Stripping length 6 mm

IO link/Modbus - communication interface

Overview of commands:

writing/reading of configuration (parameters)

- Current limit value (50 %...100 %)
- Current rating (1 A-10 A)

Reading of static product information

- Current rating
- Product type
- Serial number
- Hardware version
- Software version

Reading of dynamic product information / measuring values

- Error memory
- Trip counter
- Reason of last trip
- Status / event of device
- Supply voltage: ACTUAL / MIN / MAX / MEDIUM VALUE
- Load voltage ACTUAL / MIN / MAX / MEDIUM VALUE
- Load current

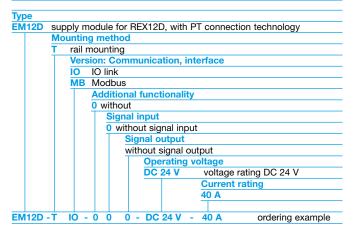
Control commands

- switch on/off or reset load output
- reset error memory
- reset trip counter
- set parameters to factory setting

Overview of ordering number codes

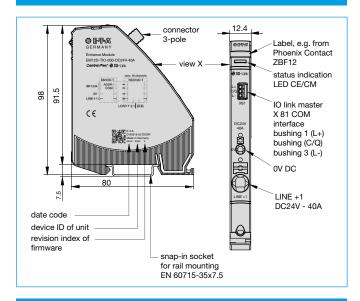
Supply module EM12D-TIO-000-DC24V-40A (IO link) EM12D-TMB-000-DC24V-40A (Modbus-RTU)

Ordering number code - EM12D

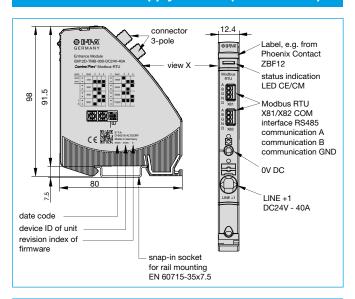


② E F A REX12D Electronic Circuit Protector

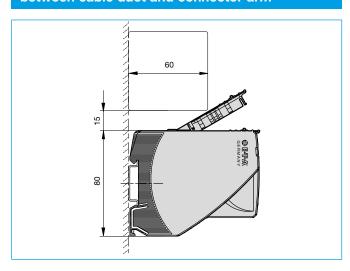
Dimensions with connection diagram: EM12D-TIO-xxx supply module (IO link)



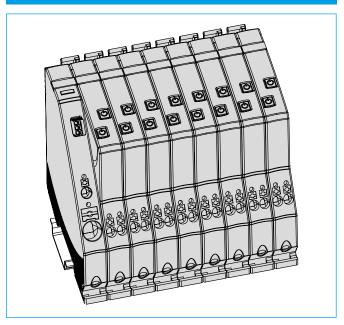
Dimensions with connection diagram: EM12D-TMB-xxx supply module (Modbus RTU)



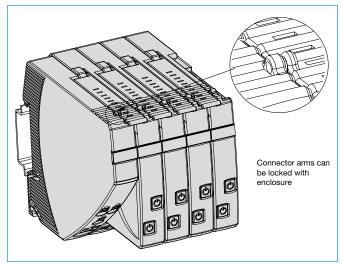
Application example: REX12(D)-T... distance between cable duct and connector arm



Application example: EM12D-TIO-xxx with REX12D-xxx



Application example: REX Locked connector arms



CAUTION



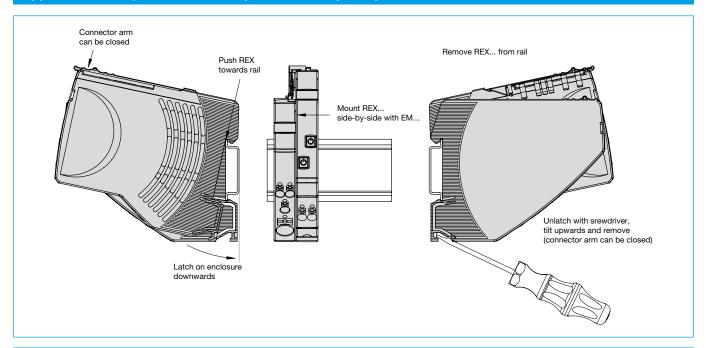
Caution:

Electrostatically sensitive sub-assemblies can be destroyed by voltages far below the human perception threshold. These voltages already occur if you touch a component or electrical terminals of a sub-assembly without being electrostatically discharged. The dam-

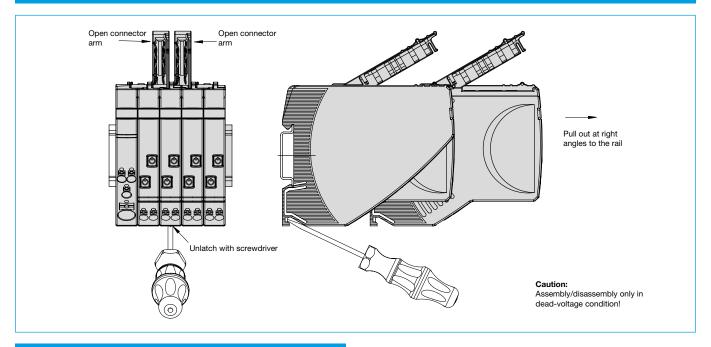
age of a sub-assembly caused by an overvoltage is often not immediately recognised, but will be noticed only after a longer operating time.

② E F A REX12D Electronic Circuit Protector

Application example: REX assembly / disassembly on symmetrical rail



Application example: REX... Replacement or disassembly



Instructions for installation

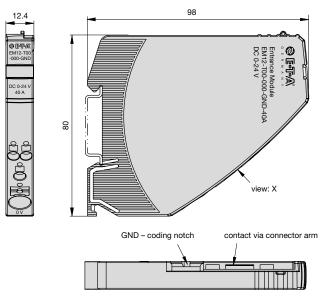
Mounting or actuation of the REX connector arm must only be effected at dead-voltage. For start-up the REX connector arm must be closed.

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.

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Accessories

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

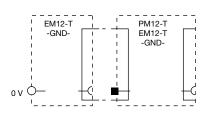


view: X Technical data

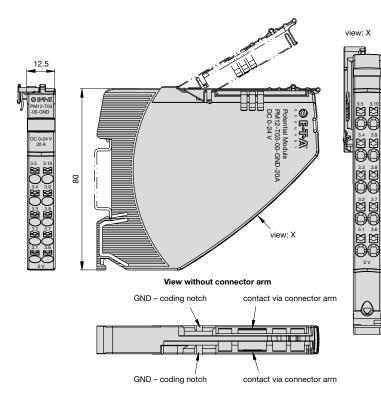
Please observe general data of REX / EM / PM		
Operating voltage U _B	0 V - DC 24 V (0 30 V)	
Operating current I _B	max. load 40 A	
line terminal	0 V – GND	
Push-in terminal PT 10 stripping length	0.5 mm ² 10 mm ² , flexible AWG24 – AWG8 rigid 18 mm	
Dimensions (w x h x d)	12.5 x 80 x 98 mm	
Mass	approx. 40 g	
Approvals	UL 1059, File # E335289	

Schematic diagram

EM12-T00-000-GND-40A



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

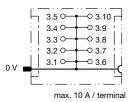


Technical data

Please observe general data of REX / EM / PM		
Operating voltage U _B	0 V - 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	

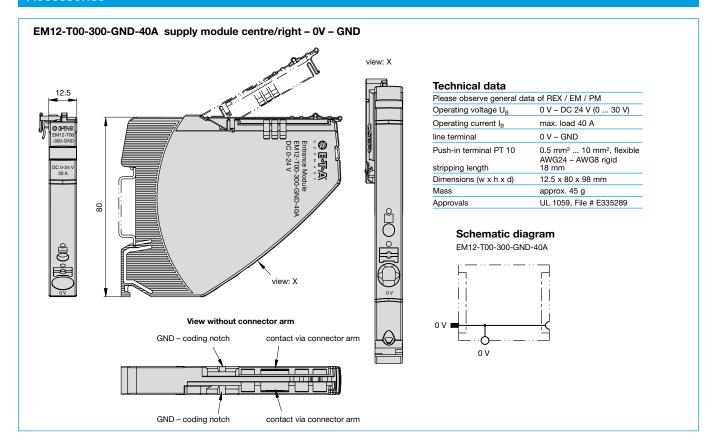
Schematic diagram

PM12-T03-00-GND-20A



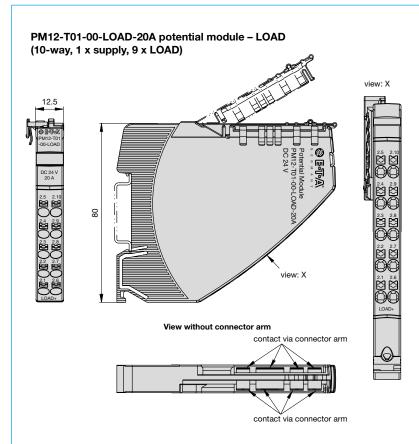
❷ [□ FA REX12D Electronic Circuit Protector

Accessories



❷ 国际风 REX12D Electronic Circuit Protector

Accessories

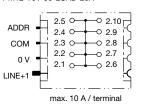


Technical data

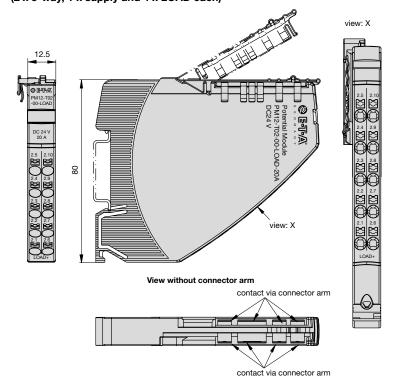
iooiiiioai aata	
Please observe general da	ta of REX / EM / PM
Operating voltage U _B	DC 24 V (1830 V)
Operating current I _B	max. load 20 A
Insulation co-ordination	0.8 kV / pollution degree 2
Screw terminals	LOAD+
Push-in terminal PT 2.5 stripping length	0.14 mm² 2.5 mm², flexible AWG24 – AWG14 rigid 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-T01-00-LOAD-20A



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

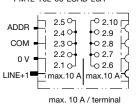


Technical data

Please observe general da	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 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

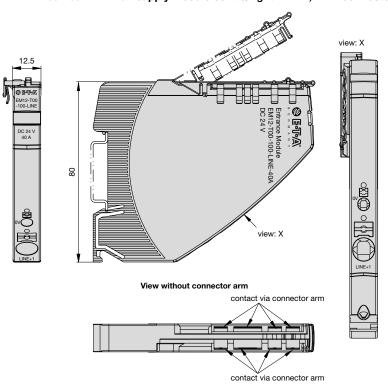
Schematic diagram

PM12-T02-00-LOAD-20A



Accessories

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

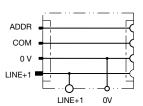


Technical data

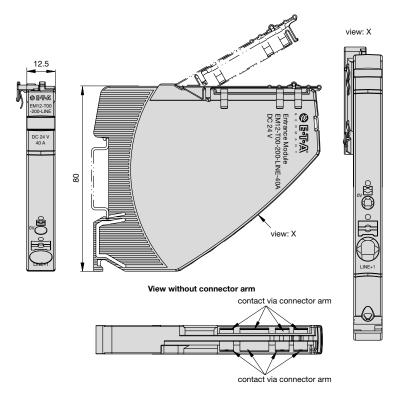
of REX / EM / PM
DC 24 V (1830 V)
max. load 40 A
0.8 kV / pollution degree 2
LINE+1
0.5 mm ² 10 mm ² , flexible AWG24 – AWG8 rigid
18 mm
0 V
0.14mm ² 2.5mm ² , flexible AWG24 – AWG14 rigid
8 mm 10 mm
12.5 x 80 x 98 mm
approx. 52 g
UL 1059, File # E335289

Schematic diagram

EM12-T00-100-LINE-40A



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

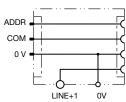


Technical data

Please observe general data	of REX / EM / PM
Operating voltage UB	DC 24 V (1830 V)
Operating current 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
Push-in terminal PT 2.5	0.14mm ² 2.5mm 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
Approvals	UL 2367, File # E306740; cULus508listed, File # E492388; pending

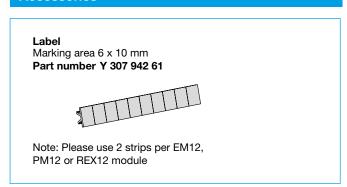
Schematic diagram

EM12-T00-200-LINE-40A



❷ 国际风 REX12D Electronic Circuit Protector

Accessories



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

