② E 不 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 DC 24 V 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.

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

Approvals

NEC Class2

Compliances





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

US patent number: US 9,899,807 B2

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

Data sheet

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

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REX12D-Txx-xxx circuit	nrotector	2	Fail-safe elem	ont	1 • 1 • / 1 /		fol:1A/1A
REX12D-TA1-100-DC24V REX12D-TA2-100-DC24V	-xA -xA/xA	1-channel 2-channel	(integral blade fuse	lent	I _N : 2 A/2 A I _N : 3 A/3 A	A (CL2)fail-sa A fail-sa	fe I _N : 1 A / 1 A fe I _N : 2 A / 2 A fe I _N : 3.15 A / 3.15 A
REX12D-TE2-100-DC24V The REX12D-TAx is operat		2-channel COM mode with EM12D-T. The	adjusted to related curren	t rating ()	I _N : 3A/3A- I _N : 4 A/4 A		fe I _N : 4 A / 4 A fe I _N : 4 A / 4 A
REX12D-TE2 can be opera operating mode EM12D-T	ated both (COM mo	with EM12D-T or EM12-T. The ode) or EM12-T (standard) is ving data exclusively refer to the		n rating i _N ,	I _N : 4A/4A- I _N : 6 A/6 A I _N : 8 A	CL2 fail-sa A fail-sa fail-sa	fe I _N : 4 A / 4 A fe I _N : 6.3 A / 6.3 A fe I _N : 8 A
Operating voltage U _B	DC 24 V	(1830 V)			I _N : 10 A I _N : 1 A-4 A	A-CL2 fail-sa	fe I _N : 10 A fe I _N : 4 A
Closed current I ₀ REX12D-TA1 1-channel REX12D-TA2 2-channel REX12D-TE2 1A-4A 2-ch	in	ON condition: typically 7 mA ON condition: typically 10 mA ON condition: typically 9 mA	Voltage drop i between LINE	+ and LOAD)+	at I _N 70% RI	
		ON condition: typically 12 mA	I _N : 1 A (CL2) I _N : 2 A (CL2)	typically 1 typically 1		I _N : 70 % I _N : 70 %	typically 125 m typically 80 mV
Reverse polarity protection	Yes		I _N : 3 A	typically 1		I _N : 70 %	typically 85 mV
Power failure buffering time	up to 10	me	I _N : 3 A-CL2	typically 1		I _N : 70 %	typically 90 mV
Rated current I _N	ratings:	1115	I _N : 4 A I _N : 4 A-CL2	typically 1 typically 1		I _N : 70 % I _N : 70 %	typically 80 mV typically 120 m\
REX12D-TA1	8 A, 10 A		I _N : 4 A OLL	typically 1		I _N : 70 %	typically 110 m
REX12D-TA2 REX12D-TE2	1 A-4 A,	2 A/2 A, 3 A/3 A, 4 A/4 A, 6 A/6 A 1 A -10 A condition upon max. current rating	I _N : 8 A I _N : 10 A	typically 1 typically 1		I _N : 70 % I _N : 70 %	typically 105 m typically 120 m
/isual status indication	green:	- load circuit connected	Voltage drop i between LINE			at I _N 70% RI	EX12D-TEx
by multicoloured	green/ora		REX12D-TE2-	-100-DC24V	-1A-4A-CL2	2	
_ED:	DIINKING:	 load current warning limit reached 50 % – 100 % 	I _N : 1A-CL2	typically		I _N : 70 %	typically 42 mV
			I _N : 2A-CL2	typically		I _N : 70%	typically 70 mV
	orange:	 overload or short circuit until disconnection 	I _N : 3A-CL2 I _N : 4A-CL2	typically typically		I _N : 70 % I _N : 70 %	typically 95 mV typically 120 m\
		 circuit protector was switched off by the superordinate control unit LED is permanently orange 	Voltage drop REX12D-TEx				or
	red:	- after disconnection due to	REX12D-TE2-	100-DC24V	-1A-10A		
	100.	overload or short circuit	I _N : 1 A	typically		I _N : 70 %	typically 28 mV
		- after undervoltage release of	I _N : 2 A	typically		I _N : 70 %	typically 34 mV
		operating voltage in ON	I _N : 3 A	typically		I _N : 70 %	typically 40 mV
		condition with autoreset	I _N : 4 A I _N : 5 A	typically typically		I _N : 70 % I _N : 70 %	typically 46 mV typically 52 mV
		Device was evitabled off via ON/	I _N : 6 A	typically		I _N : 70 %	typically 59 mV
	OFF	Device was switched off via ON/ OFF momentary switch, or due	I _N : 7 A	typically		I _N : 70 %	typically 65 mV
		to lacking operating voltage or	I _N : 8 A	typically	92 mV	I _N : 70 %	typically 71 mV
		faulty initialisation of the circuit	I _N : 9 A	typically		I _N : 70 %	typically 77 mV
		protector	I _N : 10 A	typically		I _N : 70 %	typically 83 mV
Load circuit			Operating vol monitoring	tage		bically U _B < 1 ically U _B > 19	
_oad output	(plus swi	÷.	with regard to	low voltage			d OFF switching
_oad current - warning limit I _{WLimit})	typically	0.5 - 1.0 x I _N (parameterisable)	ON delay - with power (ON			0 ms (REX12D-TAx
nysteresis	typically	5 %				JI J	ms (REX12D-TAX)
Overload current		I _{OL} : I _N x 1.05 t _{OL} : 3s			channel 1:	depending c	00 ms (REX12D-TE2
disconnection (I _{OL}) with trip times (t _{OL})	typically	$ I_{OL}: I_N \times 1.35 t_{OL}: 0.5,5s \\ I_{OL}: I_N \times 2.00 t_{OL}: 0.1s \\ I_{OL}: I_N \times 2.50 t_{OL}: 0.012 \ s $			channel 2:		00 ms (REX12D-TE2
short circuit rip time (t _{SC})	typically	at short circuit (I_{SC}) t _{SC} : 0.002 s ²) /current characteristic	- when switch	ning on by	channel 1		lly 5 ms
nfluence of ambient		perature factor table	means ON/C or	OFF button	channel 2	3 1	lly 100 ms
overload disconnection			 after undervoltage 	e	channel 1 channel 2		lly 5 ms lly 5 ms
and load current - warning Continuous Current IC	j limit typically	0.8 x I _N	Disconnection		it - manually		ce with the
e) depending on power source	(Fail Safe	e Element is protected by REX12)				control via the	e superordinate
					- after an	overload / sh ection with st	

- temporarily at undervoltage

⁻ at no operating voltage

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

Switch on of load circuit

- momentary switch ON/OF	F The circuit protector can be switched on by the superordinate control unit or otherwise directly on the device. These two options are linked with AND. Switch- on 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 operat- ing conditions (ON, OFF, UNDERVOLTAGE and TRIPPED).

Adjustment of the current rating of the REX12D-TE2 is possible in the COM mode via the corresponding communication interface.

Go to video Mounting and operation:



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 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	
Terminals LOAD+		
Push-in terminal PT 2.5	0.14 mm² 2.5 mm², flexible AWG24 – AWG14 rigid	

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

Stripping length	8 mm10 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, ct 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		
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		

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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, UL 1310 NEC Class2	E306740	DC 24 V	110 A, 1 A, 2 A, 3 A, 4 A, 1 A4 A
UL	CSA C22.2 No. 213 (Class I, Division 2, Groups A, B, C, D)	E320024	DC 24 V	110 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

Ordering number code

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REX12D intelligent electronic circuit protector with PT connection technology Mounting method



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
Protection modules: 2-channel, adjustable	REX12D-TE2-100-DC24V-1A-4A-CL2 (Class2) 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

② 医示风 REX12D Electronic Circuit Protector





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



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 $I_{\rm N}$ " 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



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② E 小A REX12D Electronic Circuit Protector

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 link/Modbus 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)

<u> </u>	D0 01	(12, 22, 14)			
Operating voltage U _B		DC 24 V (1830 V)			
Operating current I _B	max. 40 A				
Reverse polarity protection	· · · · · · · · · · · · · · · · · · ·				
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 18 mm				
stripping length					
Screw terminals Push-in terminal PT 2.5	0 V	r^2 0.5 mm ² flowible			
stripping length		n² 2.5 mm², flexible – AWG14 rigid 10 mm			
Dimensions (w x h x d)		0 x 98 mm			
Mass	approx.				
Modules to be mounted s		•			
REX12D-TA1 1-channel REX12D-TA2 2-channel	,				
REX12D-TE2 2-channel		channels			
Visual status indication of operating condition / via multicoloured LED:	green:	faultless operation communication to IO link/ Modbus master available			
	green				
	blinking:	independent operation no communication to IO link/ Modbus master			
	red:	critical fault detected communication to IO link/ Modbus master not available			
	orange:	non-critical fault detected communication to IO link/ Modbus master available			
		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 CON	I interface to IO link master			
	terminal 1 IO link L+ DC +24V connector 2: IO link C/Q connector 3: IO link L- When wiring and connecting to the point-to-point communication I0				
link, the installation and w Organisation (PNO) have t		lations of the PROFIBUS-DP User erved.			
Push-in terminals PT xx					

connector, 3-pole (plugged on)	0.25 – 0.5 mm ²
stripping length	6 mm

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

Modbus connection with Modbus Master/other devices (X81/ X82)					
X81 COM:	Connection with Modbu	is Master/			
	other Modbus devices				
	connector 1: MB-A				
	connector 2: MB-B				
	connector 3: GND				
X82 COM:	Connection with Modbu	is Master/			
	other Modbus devices				
	connector 1: MB-A				
	connector 2: MB-B				
	connector 3: GND				
terminals:	connectors, 3-pin (pluge	ged on)			
	cable cross section				
	flexible with wire end fer	rule			
	(without plastic sleeve)	0.25 – 0.5 mm ²			
	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

Type EM12D supply module for REX12D, with PT connection technology Mounting method rail mounting Version: Communication, interface IO IO link MB Modbus Additional functionality 0 without Signal input 0 without signal input Signal output without signal output Operating volta DC 24 V vc voltage rating DC 24 V **Current rating** 40 A EM12D - T IO - 0 0 0 - DC 24 V -40 A ordering example

② 医示人 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.

它 E 不 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.

Accessories



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 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-T03-00-GND-20A



② E 小A REX12D Electronic Circuit Protector

Accessories



Accessories



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



contact via connector arm

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	
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



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



② E 小A REX12D Electronic Circuit Protector

Accessories

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



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 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 1059, File # E335289	

Schematic diagram



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	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 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; cULus508listed, File #

Schematic diagram

EM12-T00-200-LINE-40A



contact via connector arm

⑧ E 小 REX12D Electronic Circuit Protector

Accessories

Label Marking area 6 x 10 mm Part number Y 307 942 61

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





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный) **Факс:** 8 (812) 320-02-42 **Электронная почта:** <u>org@eplast1.ru</u> **Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.