

Powerful Protection

ESX10-T Series Electronic Circuit Protection

for 12 & 24 VDC Circuits



Electronic circuit protection type ESX10-T is designed to ensure selective disconnection of 24VDC load systems. 24VDC power supplies, which are widely used in industry today, will shut down the output in the event of an overload with the result that one faulty load in the system can lead to complete disconnection of all loads.

Through selective disconnection the ESX10-T responds much faster to overload or short circuit conditions than the switch-mode power supply. This is achieved by active current limitation. The ESX10-T limits the highest possible current to 1.3 to 1.8 times the selected rated current of the circuit protector. Thus it is possible to switch on capacitive loads of up to 20,000 μF , but they are disconnected only in the event of an overload or short circuit.

For optimal alignment with the characteristics of the application the current rating of the ESX10-T can be selected in fixed values from 0.5 A...12 A. Failure and status indication are provided by a multicolour LED light and an integral short-circuit-proof status output or a relay signal contact. Remote operation is possible by means of a remote reset signal or a remote ON/OFF control signal. The manual ON/OFF button allows separate actuation and reset of individual load circuits.



Jumping

Custom designed jumpers for quick installation of many circuits



Multicolor LED

Provides clear status and failure indication



Remote Resettable

Remote operation through electronic signal or remote ON / OFF control signal



Detailed Markings

Wiring diagrams are clear and legible



Only 12.5mm Wide

Slim profile for more efficient use of DIN-rail and cabinet space

ESX10-T Series Overview

Features

- Width per unit only 12.5 mm
- Rail mounting
- Electronic reset input RE (option)
- Current ratings 0.5 A... 12 A
- Manual ON/OFF button (S1)
- Selective load protection, electronic trip characteristics
- Integral fail-safe element adjusted to current rating
- Control input IN+ for remote ON/OFF signal (option)
- Ease of wiring through busbar LINE+ and 0 V as well as signal bars and bridges
- Hazardous area approved- Class 1 Div 2, Zone 2, ATEX Zone 2
- Clear status and failure indication through LED, status output SF or Si contact F
- Active current limitation for safe connection of capacitive loads up to 20,000 µF and on overload/short circuit
- Reliable overload disconnection with 1.1 x I_n plus, even with long load lines or small cable cross sections



Technical Data									
Type	Signal Input				Signal Output				
					Signal Contact		Status Output		
	w/o Signal Input	Control Input ON/OFF Reset	Remote Reset	w/o Signal Output	single signal N/O (normally open NO)	single signal N/C (normally closed NC)	w/o Signal Output	Status OUT Positive 24V = OK	Status OUT ØV = OK
ESX10-TA-100	•			•			•		
ESX10-TB-101	•				•		•		
ESX10-TB-102	•					•	•		
ESX10-TB-114		•						•	
ESX10-TB-124			•	•				•	
ESX10-TB-127			•	•					•
ESX10-TC-114		•						•	
ESX10-TC-124			•	•				•	

Availability								
Type	ESX10-TA-100	ESX10-TB-101	ESX10-TB-102	ESX10-TB-114	ESX10-TB-124	ESX10-TB-127	ESX10-TC-124-12VDC	ESX10-TC-114-12VDC
Current Rating (amps)	Circuit Protection Part Number	N/O Contact Part Number	N/C Contact Part Number	Control Input Part Number	Reset Input Part Number	Reset Input Part Number	Reset Input Part Number	Reset Input Part Number
0.5	6720005305	6720005320	6720005340	6720005360	6720005380	6720005309		
1	6720005301	6720005321	6720005341	6720005361	6720005381	6720005319	6720005331	6720005351
2	6720005302	6720005322	6720005342	6720005362	6720005382	6720005329	6720005471	6720005355
3	6720005303	6720005323	6720005343	6720005363	6720005383	6720005339	6720005333	6720005353
4	6720005304	6720005324	6720005344	6720005364	6720005384	6720005349	6720005334	6720005354
6	6720005306	6720005326	6720005346	6720005366	6720005386	6720005369	6720005472	6720005356
8	6720005308	6720005328	6720005348	6720005368	6720005388	6720005389		
10	6720005310	6720005330	6720005350	6720005370	6720005390	6720005399	6720005473	6720005357
12	6720005312	6720005332	6720005352	6720005372	6720005392	6720005313		

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