1-Channel circuit breaker **EB-1824-080-0**



Standards

Safety: EN 60950-1, EN 50178, EN/IEC 60204-1 EMC: EN 61000-6-2 (interference immunity), EN 61000-6-3 (emitted interference) CE: Acc. to 2014/30/EU

Advantages

- Automatic feedthrough of all signal levels
- Optional communication via communication module
- Optional undervoltage shutdown in combined network
- Optional settings for tripping current

Additional load outputs through output distribution modules mountable side by side

Selective load-dependent activation

Versions with collective reset input

Applications

 $\sf EB-27$ Electronic circuit breaker with thermomagnetic characteristic with alarm signal forwarded for tripped and switched off channels to the connected channels. Starter version with fuse for 24 V loads.

EB-28 Electronic circuit breaker with current-limiting characteristic with alarm signal forwarded for tripped and switched off channels to the connected channels. Starter version with fuse for 24 V loads if active current limitation is required.

EB-08, EB-18, EB-38 Electronic circuit breaker with current-limiting characteristic and comprehensive communication with the connected modules. Suitable as advanced fuse for 24 V loads with option of reading more detailed current supply parameters and actively controlling the channels.





UL 508 (prepared), UL 2367 (prepared), GL (prepared), VW eCl@ss No.27-37-18-02 (prepared)





1-Channel circuit breaker **EB-1824-080-0**

Туре	EB-1824-080-0	Ту	pe	EB-1824-080-0
Special features		e Ter	rminal and mounting	
Characteristics	•	Ter	minals input, (spring clamp terminal)	max. 16 mm ²
Input			minals output, (spring clamp terminal)	max 2,5 mm ² (1 x "+")
Input rated voltage	24 Vdc	rer Cer	minals signalling, (spring clamp terminal)	max. 2,5 mm ²
Input voltage range	18 - 30 Vdc	Teri Mot	unting position	
Maximal residual ripple of supplied input voltage	3%	- Me	easures and weights	
Max. total input current	8 A	.Ö Wei	ight	0,042 kg
Max. input current for each pole of terminal	10 A (-), 40 A (+)	lar		
	17.5 V (Turn-off Threshold 16.7 V),	5		
Required input voltage for turning-on of outputs	± 0.7 V	Mechanical		
Max. power losses	2,0 W	~ '	61.2	
Over voltage protection	Suppressor diode 33 V		- 53.7 -	14.8
Stand-by current	39 mA @ 24 V			
Power losses in stand-by mode	1,17 W @ 24 V			
Turn on capacity	80 mF @ 24 Vdc / 2,5 mm² / 2,5 m		• •	
Output				
Output rated voltage	24 Vdc			99.3
Maximum voltage drop between input and output	105 mV			
Initialization time of module	52 ms			
Turn-on delay of outputs	min. 50 ms / max. 5 s			51.7
Waiting periode after switch-off of an output	500 ms (Short circuit) 5 s (Overload)		L C	
Parallel use of outputs	Not allowed			
Serial use of outputs	not allowed			
Resistance to reverse feed max.	35 Vdc		64.5	
Output rated current	8 A			12.0
Efficiency	99.0 %			
Output limited current	typ. 10 A			Sector Sector
Signaling				
	Read:-state (tripped, On, Off)			
	-set/active current			
Bus communication	-input voltage			
	-firmware version/serial number Write:-state (on, off, reset)			
Status indicator	LED (red, green, orange)			
Status indicator	Output status, short circuit proof			
Signal output	high = Channel on, low = Channel off, fault			
	Reset input			
Signal output (ON/OFF/Reset)	Level high = min. 15V, max. 30V			
- · · ·	Level low = min. OV, max. 5V			
Environment				
Type of cooling	Natural convection			
Ambient temperature	-25 °C+60 °C			
Storage temperature	-25 °C +85 °C			
Derating	-			
Relative humidity	5 96 %, without condensation			
Required minimum spacing (left/right)	0 mm			
Required minimum spacing (over/under)	30 mm			
Safety and protection				
Protection index	IP 20			
Safety class	III, without PE connection			
Degree of pollution	2			
Order numbers				
Order Number	EB-1824-080-0			

