1-Channel circuit breaker **EB-1824-020-0**



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-1824-020-0**

Туре	EB-1824-020-0	Туре		EB-1824-020-0
Special features		E Terminal and r	nounting	
Characteristics	-	Terminals input, (s	pring clamp terminal)	max. 16 mm ²
Input			(spring clamp terminal)	max 2,5 mm ² (1 x "+")
Input rated voltage	24 Vdc	Terminals signallin Mounting position	ıg, (spring clamp terminal)	max. 2,5 mm ²
Input voltage range	18 - 30 Vdc	Mounting position		
Maximal residual ripple of supplied input voltage	3 %	👝 Measures and	weights	
Max. total input current	2 A	. 2 Weight		0,042 kg
Max. input current for each pole of terminal	10 A (-), 40 A (+)	Jar		
Required input voltage for turning-on of outputs	17.5 V (Turn-off Threshold 16.7 V),	Weasures and Weight		
	± 0.7 V	ž		
Max. power losses	1,3 W	-	61.2	14.8
Over voltage protection	Suppressor diode 33 V	-	53.7	
Stand-by current	39 mA @ 24 V			
Power losses in stand-by mode	1,17 W @ 24 V 130 mF @ 24 Vdc / 2,5 mm² / 2,5 m	Į.	•	
Turn on capacity	130 IIIF @ 24 Vuc / 2,3 IIIIII ^e / 2,3 III		Ļ	
Output	0414			
Output rated voltage	24 Vdc			99.3
Maximum voltage drop between input and output	55 mV			
Initialization time of module	52 ms min. 50 ms / max. 5 s	l l	1 jS	
Turn-on delay of outputs	500 ms (Short circuit) 5 s (Overload)			51.7
Waiting periode after switch-off of an output Parallel use of outputs	Not allowed			
Serial use of outputs	not allowed			
Resistance to reverse feed max.	35 Vdc		04.5	
Output rated current	2 A		64.5	12.0
Efficiency	99.0 %			
Output limited current	typ. 2,5 A			
Signaling	- M - 12			
Bus communication	Read:-state (tripped, On, Off) -set/active current -input voltage -firmware version/serial number Write:-state (on, off, reset)			
Status indicator	LED (red, green, orange)			
Signal output	Output status, short circuit proof high = Channel on, low = Channel off, fault			
Signal output (ON/OFF/Reset)	Reset input Level high = min. 15V, max. 30V Level low = min. 0V, max. 5V			
Environment				
Type of cooling	Natural convection			
Ambient temperature	-25 °C+70 °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-1824-020-0			