1-Channel circuit breaker **EB-1824-100-0**



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-1824-100-0**

Туре	EB-1824-100-0	Туре	EB-1824-100-0
Special features		Terminal and mounting	
Characteristics	-	Terminals input, (spring clamp terminal)	max. 16 mm ²
Input		Terminals output, (spring clamp terminal)	max 2,5 mm ² (1 x "+")
Input rated voltage	24 Vdc	Terminals signalling, (spring clamp terminal) Mounting position	max. 2,5 mm ²
Input voltage range	18 - 30 Vdc	- B Mounting position	
Maximal residual ripple of supplied input voltage	3 %	- Measures and weights	
Max. total input current	10 A	. Weight	0,042 kg
Max. input current for each pole of terminal	10 A (-), 40 A (+)	lar	
Required input voltage for turning-on of outputs	17.5 V (Turn-off Threshold 16.7 V), ± 0.7 V	Weight Weight	
Max. power losses	2,5 W	61.2	
Over voltage protection	Suppressor diode 33 V	53.7	14.8
Stand-by current	39 mA @ 24 V	00.7	
Power losses in stand-by mode	1,17 W @ 24 V		
Turn on capacity	70 mF @ 24 Vdc / 2,5 mm ² / 2,5 m	* •	
Output			
Output rated voltage	24 Vdc		
	24 Vac 130 mV		99.3
Maximum voltage drop between input and output Initialization time of module	130 MV 52 ms		
	min. 50 ms / max. 5 s		
Turn-on delay of outputs	500 ms (Short circuit) 5 s (Overload)		51.7
Waiting periode after switch-off of an output	Not allowed		
Parallel use of outputs	not allowed		
Serial use of outputs			
Resistance to reverse feed max.	35 Vdc 10 A	64.5	12.0
Output rated current	10 A 99.0 %		12.0
Efficiency			8 g
Output limited current	typ. 12,5 A		
Signaling			
	Read:-state (tripped, On, Off)		
Due comminanti e	-set/active current		
Bus communication	-input voltage -firmware version/serial number		
	Write:-state (on, off, reset)		
Status indicator	LED (red, green, orange)		
	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	-		
	FD 4004 400 0		
Order Number	EB-1824-100-0		

