1-Channel circuit breaker **EB-0824-100-0**



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-0824-100-0**

Туре	EB-0824-100-0	Туре	EB-0824-100-0
Special features		Erminal and mounting	
Characteristics	Adjustable tripping currents	Terminals input, (spring clamp terminal)	max. 16 mm ²
nput		Terminals output, (spring clamp terminal)	max 2.5 mm² (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	- 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 (+)		
Required input voltage for turning-on of outputs	17.5 V (Turn-off Threshold 16.7 V), ± 0.7 V	Measures and weights Weight	
Max. power losses	0.4 W	<u>← 61.2</u>	
Over voltage protection	Suppressor diode 33 V	53.7	14.8
Stand-by current	39 mA @24 V	<u> </u>	
Power losses in stand-by mode	0.3 W @ 24 V		
	50-110 mF	• •	
Turn on capacity	@ 24 Vdc/ 2,5 mm²/2,5 m		
Output			99.3
Output rated voltage	24 Vdc		
Maximum voltage drop between input and output	130 mV		
Initialization time of module	52 ms		51.7
Turn-on delay of outputs	min. 50 ms / max. 5 s	L C	
Waiting periode after switch-off of an output	500 ms (Short circuit) 5 s (Overload)		
Parallel use of outputs	Not allowed		
Serial use of outputs	not allowed	64.5	
Resistance to reverse feed max.	35 Vdc		12.0
Output rated current	0.5 - 10 A, adjustable		N N
Efficiency	99.0 %		g
Output limited current	typ. rated current x 1,25 (@ 1-10 A) typ. rated current x 2,5 (@ 0,5 A)		
Signaling			
	Read:-state (tripped, On, Off)		
	-set/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. 0V, max. 5V		
Environment			
Type of cooling	Natural convection		
Ambient temperature	-25 °C to +70 °C		
Storage temperature	-25 °C +85 °C		
Derating	max. +60° C > 6A		
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		
	2		
Ocorec of pollution			
Degree of pollution Order numbers			

