Electronic circuit breaker with current limiting **PM-0824-240-0**



Standards

Safety: EN 60950-1, EN 50178, EN/IEC 60204-1

EMC: EN 61000-6-2, EN 61000-6-3

Safety extra-low voltage (SELV/PELV): IEC 60364-4-41 (DIN VDE 0100-410)

CE acc. to 2004/108/EG (EMC-Directive)

Advantages

Adjustable tripping current for each output channel via current selector switch

Selective immediate switch off of defective circuits in the event of critical supply voltage $\label{eq:selective}$

Sequential and load-dependent switching-on of channels

Comprehensive single-channel-diagnostics and remote switching on/off of each output channel using only two lines

Further diagnoses of input voltage and the current of each circuit

Group alarm contact

3 years warranty

Applications

The BASIC SMART circuit breakers guarantee maximum system availability. In the event of overload, only the faulty current paths are reliably switched off without affecting the remaining circuits due to active current limiting to 1.7 times the rated current. The electronic circuit breaker distributes and monitors the load current over several current circuits. Overloads and short circuits on an output are reliably recognized. The electronics permit brief current peaks and switch longer overloads off. The rated current for each output can be individually set with a current selector switch accessible from the front. The outputs are activated depending on the time delay and load to avoid an overload current. If the rated current is exceeded for a certain amount of time, the output will be switched off automatically and can be reactivated after a waiting time (thermal relaxation) using the pushbutton or the remote signal input S1. The pushbutton can also be used to switch the output manually. It is possible to read out the state of each output using the three signal contacts. The state of each output is also indicated with a multi-colored LED.





UL 2367, UL 508, DNV GL



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	Туре	PM-0824-240-0		Туре	PM-0824-240-0
Ł	Input			Terminal and mounting	
₽ ₽	Input rated voltage	24 Vdc	30	Mounting position	horizontal for standard rail DIN TS35
	Input voltage range	18 - 30 Vdc	Mechanical data	Input terminals (2 x "-"), 1) direct plug-in technology Push-in Input terminals (2 x "+"), 1) direct plug-in technology Push-in Terminals signalling (direct plug-in technology Push- in) Output terminals ("+"), direct plug-in technoligy Push-in Measures and weights	⁷ max 2,5 mm ²
σ	Maximal residual ripple of supplied input voltage	3 %			11111 ²
ē	Required input voltage for turning-on of outputs	19.5 V (Turn-off Threshold 18 V)			max 6 mm ²
Electrical data	Max. total input current	24 A			
	Max. input current for each pole of terminal	40 A			max 2,5 mm ²
5	Over voltage protection	Suppressor diode 33 V			0.5
ש	Stand-by current	32 mA @ 24 V			max 2,5 mm ²
	Power losses in stand-by mode	0.77 W @ 24 V			
	Output				0.44 lbs
	Output rated voltage	24 Vdc		worght	
	Output rated current	4 x 0.5 - 6 A		Dimensions in inch	
	Maximum voltage drop between input and output	145 mV @ 4 x 6 A			
	Initialization time of module	250 ms			
	Turn-on delay of outputs	Load dependent, min. 50 ms / max. 5 s			
	Waiting periode after switch-off of an output	500 ms (short circuit) 10 s (overload)			
	Efficiency	99 %			
	Max. power losses	4.3 W @ 4 x 6 A			
	Internal output fuse	15 A			
	Resistance to reverse feed max.	35 Vdc			
	Parallel use of outputs	Not allowed			
	Serial use of outputs	Not allowed			
	Signaling				
	Status indicator	LED (red, green, orange)			
	Signal input S1	24 Vdc (On/Off/Reset)			
	Signal output S2	24 Vdc, max. 25mA			
	olghai output oz	(status output channels)			~
	Signal output S3	24 Vdc, max 25mA			
		(Common signalling output)			
	Approvals				
	Approvals	cURus, cULus, DNV GL			
	Environment				
	Storage temperature	-13 °F to +185 °F			
	Ambient temperature	-13° F to +158 °F			
	Derating	-			
	Type of cooling	Natural convection			
	Required minimum spacing (left/right)	0.00 inch			
	Required minimum spacing (over/under)	1.57 inch			
	Safety and protection				
	Protection index	IP 20			
	Safety class	III, without PE connection			
	Degree of pollution	2			
	Order numbers				
	Order Number	PM-0824-240-0			

