Electronic circuit breaker with thermomagnetic characteristic **PM-0748-200-2**



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

- Ability to turn-on high load capacitance at each channel
- Sequential and load-dependent switching-on of channels

Comprehensive single-channel-diagnostics and remote switching on/off of each output channel via 2-wire-interface, potential-free signal output or IO-Link

LED signalisation and remote request for each output channel

Group alarm contact

3 years warranty

Applications

ECONOMY SMART circuit breakers with a thermomagnetic characteristic represent an economical alternative to the classic circuit breaker. They also ensure reliable tripping even in the case of high line resistance. This makes the circuit breakers ideal for use in standard machine production. 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 using the three signal contacts. The state of each output is also indicated with a multi-colored LED.





UL 2367, UL 508, DNV GL, EAC





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	Туре	PM-0748-200-2		Туре	PM-0748-200-2
Ł	Special features		30	Terminal and mounting	
Electrical data	Characteristics	Potential-free signal output	Mechanical data	Mounting position	horizontal for standard rail DIN TS35
	Input			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	max. 2,5 mm ²
	Input rated voltage	48 Vdc			0
	Input voltage range	32 - 58 Vdc			max. 6 mm ²
	Maximal residual ripple of supplied input voltage	3%			max. 2,5 mm ²
	Required input voltage for turning-on of outputs	35 Vdc			
	Max. total input current	20 A 40 A			max. 2,5 mm ²
	Max. input current for each pole of terminal	Suppressor diode 68 V			
	Over voltage protection Stand-by current	14,5 mA @ 48 Vdc		Measures and weights	0.14 hrs
	Power losses in stand-by mode	0.7 W @ 48 Vdc		Weight	0.14 kg
	· ·	0,7 W @ 40 Vuc			
	Output	40.1/1			
	Output rated voltage	48 Vdc			
	Output rated current	2 x 2 - 10 A, adjustable			
	Maximum voltage drop between input and output	150 mV @ 2 x 10 A 250 ms			
	Initialization time of module	Load dependent, min. 50 ms / max. 5 s			
	Turn-on delay of outputs Waiting periode after switch-off of an output	500 ms (short circuit) 20 s (overload)			
	Efficiency	99.0 %			
	Max. power losses	4.5 W (2 x 10 A)			
	Internal output fuse	15 A			
	Resistance to reverse feed max.	58 Vdc			
	Parallel use of outputs	Not allowed			
	Serial use of outputs	Not allowed			
	Signaling				Cost Cost
	Status indicator	LED (red, green, orange)			~
	Signal input S1	15 - 58 Vdc (On / Off / Reset)			
	Signal output S2	"13": Solid State Relais; max. 58 Vdc / 40 Vac / 100 mA			
	Signal output S3	"14": Solid State Relais; max. 58 Vdc / 40 Vac / 100 mA			
	Approvals				
	Approvals	cURus, cULus, DNV GL, EAC			
	Environment				
	Storage temperature	-25 °C to +85 °C			
	Ambient temperature	-25 °C to +70 °C			
	Derating	•			
	Type of cooling	Natural convection			
	Required minimum spacing (left/right)	0 mm			
	Required minimum spacing (over/under)	40 mm			
	Safety and protection				
	Protection index	IP 20			
	Safety class	III, without PE connection			
	Degree of pollution	2			
	Order numbers				
	Order Number	PM-0748-200-2			

