Electronic circuit breaker with thermomagnetic characteristic **PM-0748-400-0**



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

- 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 or potential-free signal output

LED signalisation and remote request for each output channel

Group alarm contact

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 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.

Approvals



DNV GL



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Туре	PM-0748-400-0		Туре	PM-0748-400-0
Special features		0	Terminal and mounting	
Characteristics	•		Mounting position	horizontal for standard rail DIN TS35
Input		_	Input terminals (2 x "-"), 1) direct plug-in technology	max. 2,5 mm ²
Input rated voltage	48 Vdc	data	Push-in Input terminals (2 x "+"), 1) direct plug-in	
Input voltage range	32 - 58 Vdc	q	technology Push-in	max. 6 mm ²
Maximal residual ripple of supplied input voltage	3 %	a	Terminals signalling (direct plug-in technology Push-	
Required input voltage for turning-on of outputs	35 Vdc	Mechanical	in)	max. 2,5 mm ²
Max. total input current	40 A	ha	Output terminals ("+"), direct plug-in technoligy	max. 2,5 mm ²
Max. input current for each pole of terminal	40 A	ec	Push-in	
Over voltage protection	Suppressor diode 68 Vdc	Ē	Measures and weights	
Stand-by current	17 mA		Weight	0.14 kg
Power losses in stand-by mode	0.82 W			
Output				
Output rated voltage	48 Vdc			
Output rated current	4 x 2 - 10 A, adjustable		3.5	and the second second
Maximum voltage drop between input and output	175 mV (4 x 10 A)			and the second
Initialization time of module	250 ms			and the second se
Turn-on delay of outputs	Load dependent, min. 50 ms / max. 5 s 500 ms (short circuit) 20 s (overload)			
Waiting periode after switch-off of an output	99.0 %			
Efficiency Max. power losses	8 W (4 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		3.0 45.0	
Signaling				City City
Status indicator	LED (red, green, orange)			\sim
Signal input 1	S1: 15 - 58 Vdc (On / Off / Reset)			
Signal output 2	S2: 24 Vdc, 20 mA, short circuit proof, status report of outputs			
Signal output 3	S3: 24 Vdc, 20 mA, short circuit proof; high = OK, low = min. one channel tripped			
Approvals				
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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-0748-400-0			

