Electronic circuit breaker with thermomagnetic characteristic **PM-0724-240-0**



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

- 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 using only two lines or potential-free signal output

LED signalization 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 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-0724-240-0		Туре	PM-0724-240-0
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	24 Vdc	g	Push-in	11dx. 2,5 11111-
Input voltage range	18 - 30 Vdc	ai q	Input terminals (2 x "+"), 1) direct plug-in	max. 6 mm²
Maximal residual ripple of supplied input voltage	3%		technology Push-in Terminals signalling (direct plug-in technology Push-	
Required input voltage for turning-on of outputs	19.5 Vdc (Turn-off Threshold 18 Vdc)	Mechanical data	in)	max. 2,5 mm ²
Max. total input current	24 A	a	Output terminals ("+"), direct plug-in technoligy	
Max. input current for each pole of terminal	40 A	Ե	Push-in	max. 2,5 mm ²
Over voltage protection	Suppressor diode 33 Vdc	√e	Measures and weights	
Stand-by current	35 mA @ 24 Vdc	~	Weight	0.44 lbs
Power losses in stand-by mode	0.84 W @ 24 Vdc			
Output			Dimensions in inch	
Output rated voltage	24 Vdc			
Output rated current	4 x 1 - 6 A, adjustable			
Maximum voltage drop between input and output	120 mV @ 4 x 6 A			a star
Initialization time of module	250 ms		0.14	and the second sec
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) 20 s (overload)			
Efficiency	99 %			
Max. power losses	4.2 W @ 4 x 6 A			
Internal output fuse	15 A			
Resistance to reverse feed max.	35 Vdc			
Parallel use of outputs	Not allowed		╷╷╷ <mark>╙[┉]╝╻┖</mark> ╸	
Serial use of outputs	Not allowed		0.12	
Signaling				3.9
Status indicator	LED (red, green, orange)			
Signal input S1	24 Vdc (On/Off/Reset)			×
Signal output S2	24 Vdc, max. 25 mA (status output channels)			
Signal output S3	24 Vdc, max. 25 mA (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-0724-240-0			

