Electronic circuit breaker with thermomagnetic characteristic **PC-0724-800-0**



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

 $\label{eq:comprehensive single-channel-diagnostics and remote switching on/off of each output channel via 2-wire-interface or potential-free signal output$

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.

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)





UL 2367, UL 508, DNV GL



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Туре	PC-0724-800-0	Туре	PC-0724-800-0
Special features		e Terminal and mounting	
Characteristics	-	Mounting position	horizontal for standard rail DIN TS35
Input		Input terminals (2 x "-"), 1) dire	ect plug-in technology max. 2,5 mm ²
Input rated voltage	24 Vdc		111dX. 2,5 11111-
Input voltage range	18 - 30 Vdc	Push-in Input terminals (2 x "+"), 1) dire	rect plug-in max, 6 mm ²
Maximal residual ripple of supplied input voltage	3%	technology Push-in	n in technology Duch
Required input voltage for turning-on of outputs	19.5 Vdc (Turn-off Threshold 18 Vdc)	Terminals signaling (direct plug in) Output terminals ("+"), direct p Push-in Measures and weights	g-in technology Push- max. 2,5 mm ²
Max. total input current	70 A	Output terminals ("+"), direct p	olua-in technoliay
Max. input current for each pole of terminal	40 A	-C Push-in	max. 2,5 mm ²
Over voltage protection	Suppressor diode 33 Vdc	Heasures and weights	
Stand-by current	55 mA @ 24 Vdc	Weight	0.40 kg
Power losses in stand-by mode	1.32 W @ 24 Vdc	volgro	
Output			
Output rated voltage	24 Vdc		
Output rated current	8 x 2 - 10 A, adjustable		
Maximum voltage drop between input and output	200 mV @ 8 x 10 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	99.0 %		
Max. power losses	20 W @ 8 x 10 A		
Internal output fuse	15 A		
Resistance to reverse feed max.	35 Vdc	6 <u>3.5</u>	
Parallel use of outputs	Not allowed		
Serial use of outputs	Not allowed	<u>₹₹</u>	
Signaling		3.0 + 42.0	
Status indicator	LED (red, green, orange)		\sim
Signal input 1	S1: 24 Vdc (On/Off/Reset)		
Circul estruit 0	S2: 24 Vdc, max. 25 mA		
Signal output 2	(status output channels)		
Signal output 3	S3: 24 Vdc, max. 25 mA		
	(Common signalling output)		
Approvals			
Approvals	cURus, cULus, DNV GL		
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	PC-0724-800-0		

