Electronic circuit breaker with thermomagnetic characteristic **PM-0724-200-0**



Advantages

- Adjustable tripping current for each output channel via current selector switch accessible from the front $% \left({\left[{{{\rm{ch}}} \right]_{\rm{ch}}} \right)$
- Ability to turn-on high load capacitance at each channel
- Sequential and load-dependent switching-on of channels

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

LED signalization and remote request for each output channel

Group alarm contact for simple diagnosis

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, GL



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Τ	уре	PM-0724-200-0		Туре	PM-0724-200-0
In	iput		30	Input	
In In	put rated voltage	24 Vdc	Mechanical data	Input terminals (2 x "-"), 1) direct plug-in technology	1) max. 2,5 mm²
	put voltage range	18 - 30 Vdc		Push-in 2) pluggable, WAGO series 721	11 1107. 2,0 11111
M	laximal residual ripple of supplied input voltage	3 %		Input terminals (2 x "+"), 1) direct plug-in	1) max. 6 mm ²
R	equired input voltage for turning-on of outputs	19.5 V (Turn-off Threshold 18 V)		technology Push-in 2) pluggable, WAGO series 831	
M	lax. total input current	20 A		Output	
M	lax. input current for each pole of terminal	40 A		Output terminals ("+"), 1) direct plug-in technology	1) max. 2,5 mm ²
0	ver voltage protection	Suppressor diode 33 V		Push-in 2) pluggable, WAGO series 721	
	tand-by current	35 mA @ 24 V		Signaling	
M Re M M O St Pc	ower losses in stand-by mode	0.84 W @ 24 V		Connections signalling, 1) direct plug-in technology	1) max. 2,5 mm ²
0	Jutput			Push-In 2) pluggable, WAGO series 721	
0	utput rated voltage	24 Vdc		Terminal and mounting	
0	utput rated current	2 x (2, 3, 6, 8, 10 A)		Mounting position	horizontal for standard rail DIN TH 35
Μ	laximum voltage drop between input and output	200 mV @ 2 x 10 A		Measures and weights	
In	itialization time of module	250 ms		Weight	0.20 kg
Τι	urn-on delay of outputs	Load dependent, min. 50 ms / max. 5 s			
W	laiting periode after switch-off of an output	500 ms (short circuit) 10 s (overload)			
Ef	fficiency	99 %			
Μ	lax. power losses	5.5 W @ 2 x 10 A		I	at them
In	ternal output fuse	15 A		3.5	and the second se
R	esistance to reverse feed max.	35 Vdc			
	arallel use of outputs	Not allowed			
Se	erial use of outputs	Not allowed			
S	Signaling				
St	tatus indicator	LED (red, green, orange)			
Si	ignal input S1	DC 24 V (On/Off/Reset)			
Si	ignal output S2	DC 24 V, max. 25 mA			
01		(status output channels)			
Si	ignal output S3	DC 24 V, max. 25 mA		45.0 ++	100 - 10 <u>99</u> 0
		(Summation message)			
_	pprovals				×
	pprovals	cURus, cULus, GL			
E	nvironment				
St	torage temperature	-25° C +85° C			
Ar	mbient temperature	-25° C +70° C			
D	erating	-			
	ooling method	Natural convection			
	equired minimum spacing (left/right)	0 mm			
	equired minimum spacing (over/under)	40 mm			
S	afety and protection				
Pr	rotection index	IP 20			
Sa	afety class	III, without PE connection			
D	egree of pollution	2			
0)rder numbers				
0	rder Number	PM-0724-200-0			

