Electronic circuit breaker with thermomagnetic characteristic **PM-0724-400-1**



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



BLOCK Transformatoren-Elektronik GmbH • Phone +49 4231 678-0 • info@block.eu



Electronic circuit breaker with thermomagnetic characteristic **PM-0724-400-1**

Туре		PM-0724-400-1		Туре	PM-0724-400-1
Input			30	Input	
Input Input rated volta	age	24 Vdc	۳ <u>-</u>	Input terminals (2 x "-"), 1) direct plug-in technology	2) max. 2,5 mm ²
Input voltage ra	inge	18 - 30 Vdc		Push-in 2) pluggable, WAGO series 721	
Maximal residual ripple of supplied input voltage		3 %	ta l	Input terminals (2 x "+"), 1) direct plug-in technology Push-in 2) pluggable, WAGO series 831	2) max. 10 mm ²
Required input v	voltage for turning-on of outputs	19.5 V (Turn-off Threshold 18 V)	lechanical d	1 00 1	
Max. total input		40 A		Output	
	ent for each pole of terminal	40 A		Output terminals ("+"), 1) direct plug-in technology	2) max. 2,5 mm ²
Over voltage pro		Suppressor diode 33 V		Push-in 2) pluggable, WAGO series 721	
Stand-by curren		35 mA @ 24 V		Signaling	
Power losses in	n stand-by mode	0.84 W @ 24 V		Connections signalling, 1) direct plug-in technology Push-In 2) pluggable, WAGO series 721	2) max. 2,5 mm ²
Output			~		
Output rated vo	ltage	24 Vdc		Terminal and mounting	
Output rated cu	ırrent	4 x (2, 3, 6, 8, 10 A)		Mounting position	horizontal for standard rail DIN TH 35
	ge drop between input and output	200 mV @ 4 x 10 A		Measures and weights	
Initialization time		250 ms		Weight	0.20 kg
Turn-on delay of					
÷ .	after switch-off of an output	500 ms (short circuit) 10 s (overload)			
Efficiency		99 %			•
Max. power loss		10 W @ 4 x 10 A		I	and the second sec
Internal output f		15 A			A CONTRACTOR OF
	everse feed max.	35 Vdc			
Parallel use of c		Not allowed		90.0	
Signaling			_		
Status indicator	ſ	LED (red, green, orange)			
Signal input S1		DC 24 V (On/Off/Reset)			
Signal output S2		DC 24 V, max. 25 mA			
orginal output of	-	(status output channels)		3.0	and the second
Signal output S3	3	DC 24 V, max. 25 mA (Summation message)			Tear
A		Countination message			
Approvals					
Approvals		cURus, cULus, GL			
Environment	-				
Storage temper	rature	-25° C +85° C			
Ambient temper	rature	-25° C +70° C			
Derating		-			
Cooling method		Natural convection			
	um spacing (left/right)	0 mm			
	um spacing (over/under)	40 mm			
Safety and p	protection				
Protection index	X	IP 20			
Safety class		III, without PE connection			
Degree of pollut	tion	2			
Order numb	ers				
or dor marries					

