## Electronic circuit breaker with thermomagnetic characteristic **PC-0724-480-0**



### 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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Туре	PC-0724-480-0		Туре	PC-0724-480-0
Input				
Input rated voltage	24 Vdc	30	Input terminals (2 x "-"), 1) direct plug-in technolog	
Input voltage range	18 - 30 Vdc		Push-in 2) pluggable, WAGO series 721	1) max. 2,5 mm <sup>2</sup>
Maximal residual ripple of supplied input voltage	3%	ចុ	Input terminals (2 x "+"), 1) direct plug-in	1) max. 6 mm²
Required input voltage for turning-on of outputs	19.5 V (Turn-off Threshold 18 V)	at	technology Push-in 2) pluggable, WAGO series 831	1) IIIdx. O IIIII-
Max. total input current	48 A		Output	
Max. input current for each pole of terminal	40 A	Mechanical data	Output terminals ("+"), 1) direct plug-in technology	1) max. 2,5 mm <sup>2</sup>
Over voltage protection	Suppressor diode 33 V	ine	Push-in 2) pluggable, WAGO series 721	T) IIIdX. 2,3 IIIIII-
Stand-by current	48 mA @ 24 V	ů,	Signaling	
Power losses in stand-by mode	1.15 W @ 24 V	<u> </u>	Connections signalling, 1) direct plug-in technology	1) max. 2,5 mm <sup>2</sup>
Output		≥	Push-In 2) pluggable, WAGO series 721	L) IIIdX. 2,3 IIIIII <sup>2</sup>
Output rated voltage	24 Vdc		Terminal and mounting	
Output rated current	8 x (1, 2, 3, 6 A)		Mounting position	horizontal for standard rail DIN TH 35
Maximum voltage drop between input and output	155 mV @ 8 x 6 A		Measures and weights	
Initialization time of module	250 ms		Weight	0.40 kg
Turn-on delay of outputs	Load dependent, min. 50 ms / max. 5 s			5
Waiting periode after switch-off of an output	500 ms (short circuit) 10 s (overload)			
Efficiency	99 %			
Max. power losses	8.6 W @ 8 x 6 A			
Internal output fuse	15 A			
Resistance to reverse feed max.	35 Vdc			
Parallel use of outputs	Not allowed			
Serial use of outputs	Not allowed			
Signaling				
Status indicator	LED (red, green, orange)			
Signal input S1	DC 24 V (On/Off/Reset)			
Circal autout CO	DC 24 V, max. 25 mA			
Signal output S2	(status output channels)		│	1 1163
Signal output S3	DC 24 V, max. 25 mA			1124.0
	(Summation message)		3.0 + 42.0	
Approvals				$\sim$
Approvals	cURus, cULus, GL			
Environment				
Storage temperature	-25° C +85° C			
Ambient temperature	-25° C +70° C			
Derating	•			
Cooling method	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				
Uruer numbers				

