#### Electronic circuit breaker with thermomagnetic characteristic

#### PM-0724-400-0



## 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

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.

#### 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)

# **Approvals**







UL 2367. UL 508. DNV GL





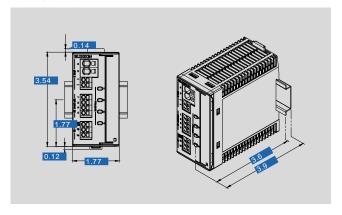
Order Number

# Electronic circuit breaker with thermomagnetic characteristic **PM-0724-400-0**

1	Гуре	PM-0724-400-0
5	Special features	
ς S • σ	Characteristics	•
	nput	
	nput rated voltage	24 Vdc
3   E	nput voltage range	18 - 30 Vdc
5 N	Maximal residual ripple of supplied input voltage	3 %
2   F	Required input voltage for turning-on of outputs	19.5 Vdc (Turn-off Threshold 18 Vdc)
5   1	Max. total input current	40 A
<u> </u>	Max. input current for each pole of terminal	40 A
<b>'</b> ' c	Over voltage protection	Suppressor diode 33 Vdc
S	Stand-by current	35 mA @ 24 Vdc
P	Power losses in stand-by mode	0.84 W @ 24 Vdc
	Dutput	
C	Output rated voltage	24 Vdc
C	Output rated current	4 x 2 - 10 A, adjustable
Λ	Maximum voltage drop between input and output	200 mV @ 4 x 10 A
Ir	nitialization time of module	250 ms
T	urn-on delay of outputs	Load dependent, min. 50 ms / max. 5 s
V	Naiting periode after switch-off of an output	500 ms (short circuit) 20 s (overload)
	Efficiency	99 %
	Max. power losses	10 W @ 4 x 10 A
	nternal output fuse	15 A
	Resistance to reverse feed max.	35 Vdc
	Parallel use of outputs	Not allowed Not allowed
	Gerial use of outputs	Not allowed
	Gignaling	
_	Status indicator	LED (red, green, orange)
S	Signal input S1	24 Vdc (On/Off/Reset)
S	Signal output S2	24 Vdc, max. 25 mA (status output channels)
		24 Vdc, max. 25 mA
S	Signal output S3	(Common signalling output)
	Approvals	0 0 .
_	Approvals	cURus, cULus, DNV GL
	Environment	oonac, cozac, sivi oz
_	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	



#### Dimensions in inch



PM-0724-400-0