Electronic circuit breaker with thermomagnetic characteristic

PM-3724-200-0



Advantages

Adjustable tripping current for each output channel via 2-wire-interface

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

Group alarm contact for simple diagnosis

3 years warranty

Applications

ECONOMY REMOTE 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 tripping current for each output can be individually set in 6 steps only with a higher-level control system (e.g. PLC). 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 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





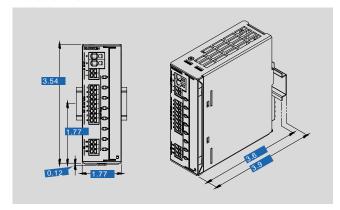
Order Number

Electronic circuit breaker with thermomagnetic characteristic **PM-3724-200-0**

	Туре	PM-3724-200-0
Ϋ́	Input	
ተ ተ	Input rated voltage	24 Vdc
	Input voltage range	18 - 30 Vdc
g	Maximal residual ripple of supplied input voltage	3 %
<u>at</u>	Required input voltage for turning-on of outputs	19.5 V (Turn-off Threshold 18 V)
_	Max. total input current	20 A
8	Max. input current for each pole of terminal	40 A
귿	Over voltage protection	Suppressor diode 33 V
Electrical data	Stand-by current	35 mA @ 24 V
Ш	Power losses in stand-by mode	0.84 W @ 24 V
	Output	
	Output rated voltage	24 Vdc
	Output rated current	2 x 2 - 10 A
	Maximum voltage drop between input and output	200 mV @ 2 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 %
	Max. power losses	5.5 W @ 2 x 10 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)
	Signal output S2	DC 24 V, max. 25 mA
	orginar output oz	(status output channels)
	Signal output S3	DC 24 V, max. 25 mA
		(Common signalling output)
	Environment	40.05 . 405.05
	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	
		DIT 0701 000 0



Dimensions in inch



PM-3724-200-0