PM-0824-240-2



Advantages

Adjustable tripping current for each output channel via current selector

Selective immediate switch off of defective circuits in the event of critical supply voltage

Sequential and load-dependent switching-on of channels

Comprehensive single-channel-diagnostics and remote switching on/off of each output channel via 2-wire-interface

Further diagnoses of input voltage and the current of each circuit

Group alarm contact

3 years warranty

Applications

The BASIC SMART circuit breakers guarantee maximum system availability. In the event of overload, only the faulty current paths are reliably switched $% \left(1\right) =\left(1\right) \left(1\right) \left($ off without affecting the remaining circuits thanks to active current limiting to 1.7 times the rated current. 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

EN 60950-1, EN 50178, EN/IEC 60204-1

EN 61000-6-2, EN 61000-6-3

Safety extra-low voltage (SELV/PELV): IEC 60364-4-41 (DIN VDE 0100-410)

CF acc. to 2004/108/FG (FMC-Directive)

Approvals









UL 2367, UL 508, DNV GL, EAC





Electronic circuit breaker with current limiting PM-0824-240-2

	Туре	PM-0824-240-2
٦Ľ	Input	
1+	Input rated voltage	24 Vdc
• •	Input voltage range	18 - 30 Vdc
σ	Maximal residual ripple of supplied input voltage	3 %
at	Required input voltage for turning-on of outputs	19.5 V (Turn-off Threshold 18 V)
0	Max. total input current	24 A
ca	Max. input current for each pole of terminal	40 A
tri	Over voltage protection	Suppressor diode 33 V
Electrical data	Stand-by current	22.7 mA @ 24 V
Ш	Power losses in stand-by mode	0.55 W @ 24 V
	Output	
	Output rated voltage	24 Vdc
	Output rated current	2 x 2 - 12 A
	Maximum voltage drop between input and output	210 mV @ 2 x 12 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	99.0 %
	Max. power losses	5.58 W @ 2 x 12 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	24 Vdc (On/Off/Reset)
	Signal output S2	24 Vdc, max. 25mA
	orginal output of	(status output channels)
	Signal output S3	24 Vdc, max 25mA
	A I .	(Common signalling output)
	Approvals	LID III DANGOL FAO
	Approvals	cURus, cULus, DNV GL, EAC
	Environment	
	Storage temperature	-25 °C to +85 °C
	Ambient temperature	-25° C to +70° C
	Type of cooling	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	
	Order Number	PM-0824-240-2

	Туре	PM-0824-240-2
00.	Terminal and mounting	
~ <u> </u>	Mounting position	horizontal for standard rail DIN TS35
l data	Input terminals (2 x "-"), 1) direct plug-in technology Push-in	max. 2,5 mm ²
	Input terminals (2 x "+"), 1) direct plug-in technology Push-in	max. 6 mm ²
nica	Terminals signalling (direct plug-in technology Pushin)	max. 2,5 mm ²
Vechanical	Output terminals ("+"), direct plug-in technoligy Push-in	max. 2,5 mm ²
ĕ	Measures and weights	
	Weight	0.2 kg

