Electronic circuit breaker with current limiting and non-adjustable tripping currents

PM-9824-152-0

Picture shows PM-0724-400/200-0

Advantages

- 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 using only two lines
- Group alarm contact
- 3 years warranty

Applications

If circuits are designed with the same safety values in a number of applications, the BASIC FIX circuit breakers represent the most economical basis. Different rated current combinations enable use in a wide range of applications. Each channel features active current limiting to 1.3 times the fixed preset 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 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

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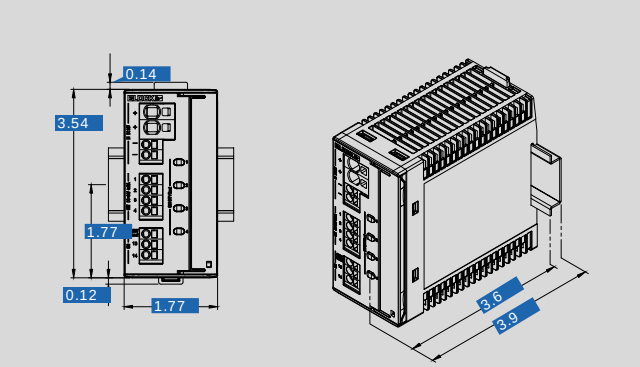
Type	PM-9824-152-0
Special features	
Characteristics	For establishing NEC Class 2 circuits
Input	
Input rated voltage	24 Vdc
Input voltage range	20 - 28,8 Vdc
Maximal residual ripple of supplied input voltage	3 %
Required input voltage for turning-on of outputs	20 V (Turn-off Threshold 18 V)
Max. total input current	15,2 A
Max. input current for each pole of terminal	40 A
Over voltage protection	Suppressor diode 33 V
Stand-by current	34 mA @ 24 V
Power losses in stand-by mode	0.82 W @ 24 V
Output	
Output rated voltage	24 Vdc
Output rated current	4 x 3,8 A @ 24 V
Maximum voltage drop between input and output	150 mV @ 4 x 3.8 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	3,1 W @ 4 x 3.6 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	24 Vdc (On/Off/Reset)
Signal output S2	24 Vdc, max. 25mA (status output channels)
Signal output S3	24 Vdc, max 25mA (Common signalling output)
Approvals	
Approvals	cURus, cULus, GL
Environment	
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	
Order Number	**PM-9824-152-0**

Type	PM-9824-152-0
Terminal and mounting	
Input terminals (2 x "-"), 1) direct plug-in technology Push-in	max 2,5 mm²
Input terminals (2 x "+"), 1) direct plug-in technology Push-in	max 6 mm²
Output terminals ("+"), direct plug-in technoligy Push-in	max 2,5 mm²
Terminals signalling (direct plug-in technology Push-in)	max 2,5 mm²
Mounting position	horizontal for standard rail DIN TS35
Measures and weights	
Weight	0.44 lbs

Dimensions in inch



Subject to change.