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

PM-2824-120-0



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 multicolored 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

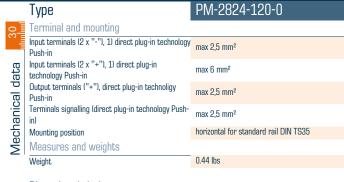




Electronic circuit breaker with current limiting and non-adjustable tripping currents

PM-2824-120-0

	Туре	PM-2824-120-0
٦٢	Special features	
1+	Characteristics	-
	Input	
g	Input rated voltage	24 Vdc
dat	Input voltage range	18 - 30 Vdc
lectrical data	Maximal residual ripple of supplied input voltage	3%
	Required input voltage for turning-on of outputs	19.5 V (Turn-off Threshold 18 V)
	Max. total input current	12 A
	Max. input current for each pole of terminal	40 A
ш	Over voltage protection	Suppressor diode 33 V
	Stand-by current	32 mA @ 24 V
	Power losses in stand-by mode	0.77 W @ 24 V
	Output	
	Output rated voltage	24 Vdc
	Output rated current	2 x 6 A
	Maximum voltage drop between input and output	145 mV @ 2 x 6 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	2.5 W @ 2 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	24 Vdc (On/Off/Reset)
	Signal output S2	24 Vdc, max. 25mA
		(status output channels) 24 Vdc, max 25mA
	Signal output S3	(Common signalling output)
	Approvals	
	Approvals	cURus, cULus, DNV GL
	Environment	conds, cocds, blvv oc
		10.95 105.95
	Storage temperature	-13 °F to +185 °F -13 °F to +158 °F
	Ambient temperature	-13 F W +138 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	1.07 11011
		IP 20
	Protection index	III. without PE connection
	Safety class Degree of pollution	III, WILLIOUT PE CONNECTION
		_
	Order numbers	DR 0004 400 0
	Order Number	PM-2824-120-0



Dimensions in inch

