PM-0824-120-0



Advantages

Adjustable tripping current for each output channel via current selector switch accessible from the front

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 for simple diagnosis

Applications

The BASIC SMART circuit breakers guarantee maximum system availability. In the event of overload, only the faulty current paths are reliably switched 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 \$1\$. 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, GL



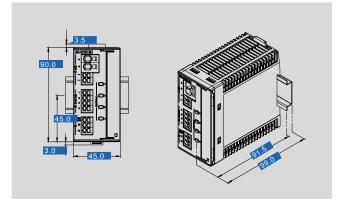


Order Number

Electronic circuit breaker with current limiting **PM-0824-120-0**

	Type	PM-0824-120-0
۲	Input	
+	Input rated voltage	24 Vdc
	Input voltage range	18 - 30 Vdc
පු	Maximal residual ripple of supplied input voltage	3 %
Electrical data	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
당	Over voltage protection	Suppressor diode 33 V
Ele Ele	Stand-by current	32 mA @ 24 V
	Power losses in stand-by mode Input terminals (2 x "-"), 1) direct plug-in technology	0.77 W @ 24 V
	Push-in 2) pluggable, WAGO series 721	
	Output	
	Output rated voltage	24 Vdc
	Output rated current	2 x 0.5 - 6 A
	Maximum voltage drop between input and output	145 mV @ 2 x 6 A 250 ms
	Initialization time of module	Load dependent, min. 50 ms / max. 5 s
	Turn-on delay of outputs 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
	9	(status output channels)
	Signal output S3	24 Vdc, max 25mA (Summation message)
	Approvals	•
	Approvals	cURus, cULus, GL
	Environment	
	Storage temperature	-25° C +85° C
	Ambient temperature	-25° C +70° C
	Derating	<u> </u>
	Cooling method	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	

	Type	PM-0824-120-0
000	Input	
``	Input terminals (2 x "+"), 1) direct plug-in technology Push-in 2) pluggable, WAGO series 831	1) max 6 mm ²
tа	Output	
Mechanical data	Output terminals ("+"), 1) direct plug-in technology Push-in 2) pluggable, WAGO series 721	1) max 2,5 mm ²
	Signaling	
	Connections signalling, 1) direct plug-in technology Push-In 2) pluggable, WAGO series 721	1) max 2,5 mm ²
Ме	Terminal and mounting	
_	Mounting position	horizontal for standard rail DIN TH 35
	Measures and weights	
	Weight	0.20 kg



PM-0824-120-0