

Electronic Circuit Breaker **PC-0724-800-0**



Advantages

- Adjustable output current for each output channel
- Ability to turn-on high load capacitance at each channel
- On/Off/Reset for each output channel via button and PLC
- Summation message
- Push-In terminals
- LED signalization and remote request for each output channel
- Robust DIN rail mounting
- Only 42mm width

Applications

The electronic circuit breakers distribute the current of a power source to multiple DC 24V output channels and monitor the channels reliably for overload and short circuit.

Standards

Electronic circuit breaker
UL 508, UL 2367

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

EMC:
EN 61000-6-2, EN 61000-6-3

Approvals



UL 2367, UL 508



Electronic Circuit Breaker

PC-0724-800-0

Electrical data	Type	PC-0724-800-0	Type	PC-0724-800-0
	Input	30		Input
Input rated voltage	24 Vdc		Input terminals (2 x "-")	Push-In terminals, max 2,5 mm ²
Input voltage range	18 - 30 Vdc		Input terminals (2 x "+")	Push-In terminals, max 6 mm ²
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	70 A			
Max. input current for each pole of terminal	40 A			
Over voltage protection	Suppressor diode 33 V			
Stand-by current @ 24V	55 mA			
Power losses in stand-by mode @ 24V	1.32 W			
Output			Output	Push-In terminals, max 2,5 mm ²
Output rated voltage	24 Vdc			
Output rated current	8 x 2 - 10 A			
Maximum voltage drop between input and output	200 mV @ 8 x 10 A			
Initialization time of module	115 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) .. 20 s (Overload)			
Max. power losses	20 W @ 8 x 10 A			
Efficiency	99 %			
Maximum turn-on capacity for each channel	>50 - 500 mF			
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 display	LED (red, green, orange)			
Signal input S1	DC 24V (On/Off/Reset)			
Signal output S2	DC 24V, max. 25mA (status output channels)			
Signal output S3	DC 24V, max 25mA (Summation message)			
Terminals signaling	Push-In Terminals, max 2,5 mm ²			
Environment				
Storage temperature	-25° C ... +85° C			
Ambient temperature	-25° C ... +70° C			
Derating	Max. output current per channel: 10 A Total current (all channels together): max. 50A @ 60°C max. 40A @ 70°C			
Cooling method	Natural convection			
Required minimum spacing (left/right)	-			
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		PC-0724-800-0		
Order Number				

Subjects to change