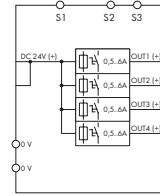


Electronic Circuit Breaker with Active Current Limitation

EPSITRON®



- Space-saving electronic circuit breaker with 4 channels
- 0.5–6 A nominal current, adjustable for each channel via sealable selector switch
- Active current limitation
- Switch-on capacity > 65000 μF per channel
- One illuminated three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Technical Data

Input:	
Nominal input voltage $V_{i, \text{nom}}$	24 VDC
Input voltage range	18 ... 30 VDC
Output:	
Nominal output voltage $V_{o, \text{nom}}$	4 x 24 VDC
Nominal current	max. 4 x 6 ADC (0.5, 1, 2, 3, 4, 6 A adjustable for each channel via selector switch)
Voltage drop	145 mV at 6 A
Trip time	Load-dependent (16 ms ... 5 s)
Switch-on capacity	> 65,000 μF per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	yes
Operational indication	Green LED (O.K. channel), Red LED (tripped channel)
Signaling	4 x LED (green/red/orange)
Remote input	Reactivation of all tripped channels via 15–30 VDC pulse for min. 500 ms. Switching on/off any number of channels via pulse sequence.
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	4.3 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Description

Electronic circuit breaker,
24 VDC / 4 x 6 A

Item No.

787-1664/006-1000

Pack. Unit

1

Technical Data

Environmental requirements:

Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30% ... 85% (no condensation permissible)
Derating	no derating

Safety and protection:

Test voltage	500 VDC (connectors to housing)
Protection class	III
Reverse voltage protection	no
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via 33 V suppressor diode at input
Feedback voltage	max. 35 VDC
Series connection of several devices	not permitted
Parallel operation of single channels	not permitted

Connection and type of mounting:

Wire connection	Input (+): WAGO 831 Series
	Input (-), output, signaling: WAGO 721 Series
Cross sections	Input (+): 0.5 mm ² ... 10 mm ² / AWG 20 ... 8
	Input (-), output, signaling: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (-), output, signaling: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)

Dimensions and weight:

Dimensions (mm) W x H x L	45 x 90 x 115.5
	Length from upper-edge of DIN 35 rail
Weight	170 g

Standards and approvals:

Standards/Specifications	UL 508, UL 2367, GL, EN 60950, EN 61000-6-2, EN 61000-6-3
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