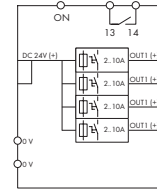


787-1664

# Electronic Circuit Breaker EPSITRON®



- Compact 4-channel electronic circuit breaker
- 2- 10 A nominal current, adjustable for each channel via sealable selector switch
- Switch-on capacity > 50000 µF per channel
- One illuminated bi-color button per channel simplifies switching (on/off), resetting and on-site diagnosing
- Time-delayed switching of channels
- 24 VDC output as group message (triggered channel)
- 24 VDC output as channel status message (pulse sequence)
- Remote input resets tripped channels or switching on/off any number of channels via pulse sequence

Technical Data	
<b>Input:</b>	
Nominal input voltage $V_i$ nom	24 V DC
Input voltage range	18 ... 30 V DC
<b>Output:</b>	
Nominal output voltage $V_o$ nom	4 x 24 V DC
Nominal current	max. 4 x 10 ADC (2, 3, 4, 6, 8, 10 A adjustable for each channel via selector switch)
Voltage drop	200 mV at 10 A
Trip time	Load-dependent (20 ms - 100 s)
Switch-on capacity	> 50000 µF per channel
Switch-on behavior	Time-delayed channel switching (50 - 100 ms each)
Operational indication	Green LED (channel OK), Red LED (channel triggered)
Signaling	4 x LED (green/red), 1 x 24 VDC group message , 1 x 24 VDC status message (pulse sequence)
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.
<b>Efficiency / power losses:</b>	
Efficiency	99 % typ.
Power loss $P_v$	1.3 W (stand-by) / 20 W (nominal load)
<b>Fuse protection:</b>	
Internal fuse	15 AT per channel

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 4 x 10 A	787-1664	1
<b>Technical Data</b>		
<b>Environmental requirements:</b>		
Ambient operating temperature	-25 °C ... +70 °C	
Storage temperature	-25 °C ... +85 °C	
Rel. humidity	30 % ... 85 % (no condensation)	
Derating	-3 % / K (> +50 °C)	
<b>Safety and protection:</b>		
Test voltage	500 V DC (terminals to enclosure)	
Protection class	III	
Reverse voltage protection	no	
Degree of protection	IP20 (acc. to EN 60529)	
Overload 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	
<b>Connection and type of mounting:</b>		
Wire connection	Input: WAGO 831 Series Input/Output: WAGO 721 Series	
Cross sections	Input: 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> / AWG 20 ... 8 Input/Output: 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / AWG 28 ... 12	
Strip lengths	Input: 13 ... 15 mm / 0.55 in Input/Output: 8 ... 9 mm / 0.33 in	
Type of mounting	DIN-rail mount (EN 60715)	
<b>Dimensions and weight:</b>		
Dimensions (mm) W x H x L	45 x 90 x 115.5 Length from upper-edge of DIN 35 rail	
Weight	170 g	
<b>Standards and approvals:</b>		
Standards/Specifications	UL 60950*, UL 508*, UL 2367*, GL*, EN 60950, EN 61000-6-2, EN 61000-6-3 (* pending)	