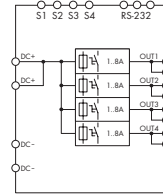


# Electronic Circuit Breaker with Active Current Limitation EPSITRON®



- Electronic circuit breaker with 4 channels, parametrizable
- Features active current limitation, reliably prevents voltage drops
- Time-delayed switching of channels
- Current and voltage monitoring via RS-232 interface and LCD
- Watchdog functions with active signal ports

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 4 x 8 A	787-861	1

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	4 x 1 ... 8 A DC (adjustable for each channel in 1 A steps)
Voltage drop	140 mV at 8 A
Trip time	100 ms (100 ms .. 1.5 s; adjustable, depending on nominal current)
Switch-on capacity	max. 20,000 $\mu$ F
Switch-on behavior	time-delayed channel switching (250 ms each)
Trip current	1.1 x nominal current typ.
Active current limitation	yes
Current limitation	1.5 x nominal current typ.
Operational indication	LED green (all channels o.k.), LED yellow (warnings), LED red (at least one channel has tripped)
Signaling	LCD, 4 x signal output 24 V DC, 25 mA
LineMonitor, parameter setting	via LCD and RS-232 serial interface
<b>Efficiency / power losses:</b>	
Efficiency	96 % typ.
Power loss $P_V$	2 W (stand-by) / 8.2 W (rated load)
<b>Fuse protection:</b>	
Internal fuse	15 AT

Technical Data	
<b>Environmental requirements:</b>	
Ambient operating temperature	-10 °C ... +60 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
<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 suppressor diode at input
Feedback voltage	max. 33 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 Output: WAGO 231 Series
Cross sections	Input: 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> / AWG 20 ... 8 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 Output: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
<b>Dimensions and weight:</b>	
Dimensions (mm) W x H x L	40 x 171 x 163 Height from upper-edge of DIN 35 rail
Weight	800 g
<b>Standards and approvals:</b>	
Standards/Specifications	EN 60950, UL 508, EN 61000-6-2, EN 61000-6-3