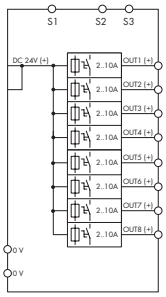
787-1668

Electronic Circuit Breaker
EPSITRON®



- Compact 8-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 three-colored button per channel simplifies switching (on/off), resetting and on-site diagnosing
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switching on/off any number of channels via pulse sequence

Description	Item No.	Pack. Unit
Electronic Circuit Breaker, 24 VDC / 8 x 10 A	**787-1668**	1

Technical Data

Input:	
Nominal input voltage Vi nom	24 V DC
Input voltage range	18 ... 30 V DC
Output:	
Nominal output voltage Vo nom	8x 24 V DC
Nominal current	max. 8 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)
Active current limitation	no
Operational indication	Green LED (channel OK),
	Red LED (channel triggered)
Signaling	8 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	1.3 W (stand-by) / 20 W (nominal load)
Fuse protection:	
Internal fuse	15 AT per channel

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	≥ +50 °C: see instruction manual
Safety and protection:	
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
MTBF	> 500,000 h (acc. to IEC 61709)
Connection and type of mounting:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), Output, Signalising:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 mm² ... 10 mm² / AWG 20 ... 8
	Input (–), Output, Signalising:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 12
Strip lengths	Input (+): 13 ... 15 mm / 0.55 in
	Input (–), Output, Signalising:
	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	42 x 127 x 142.5
	Length from upper-edge of DIN 35 rail
Weight	800 g
Standards and approvals:	
Standards/Specifications	UL 508, UL 2367, GL, EN 60950,
	EN 61000-6-2, EN 61000-6-3