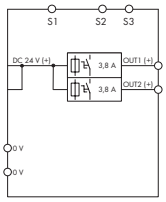
787-1662/004-1000

Electronic Circuit Breaker with Active Current Limitation

EPSITRON®

Similiar to pictured device



- Space-saving electronic circuit breaker with 2 channels
- Nominal current is fixed at 3.8 A for each channel
- Each output complies with NEC Class 2
- 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

Description	Item No.	Pack. Unit
Electronic circuit breaker, 24 VDC / 2 x 3.8 A	**787-1662/004-1000**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	24 VDC
Input voltage range	20 ... 28.8 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	2 x 24 VDC
Nominal current	2 x 3.8 ADC NEC Class 2
	(at 20 ... 24 V DC);
	2 x 3.2 ADC NEC Class 2 (at 28 VDC)
	fixed nominal current
Voltage drop	125 mV at 3.8 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 (OK channel),
	Red LED (tripped channel)
Signaling	2 x LED (green/red/orange)
Remote input	Resetting of tripped channel via
	15 ... 30 VDC pulse for at least 500 ms.
	Switching on/off any number of channels
	via pulse sequence
Efficiency/Power losses:	
Efficiency	99 % typ.
Power loss P_V	0.65 W (no load) / 1.6 W (at 2 x 3.8 A)
Fuse protection:	
Internal fuse	No fuse

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
Derating	No derating
Degree of pollution	2 (acc. to EN 50178)
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. 28.8 VDC
Series connection of several devices	Not permitted
Parallel operation of single channels	Not permitted
Connection and mounting type:	
Wire connection	Input (+): WAGO 831 Series
	Input (–), output, signaling:
	WAGO 721 Series
Cross sections	Input (+):
	0.5 ... 10 mm² / 20 ... 8 AWG
	Input (–), output, signaling:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input (+):
	13 ... 15 mm / 0.51 ... 0.59 in
	Input (–), output, signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
Mounting type	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-rail
Weight	170 g
Standards and specifications:	
Standards/specifications	UL 508, UL 2367, GL*,
	EN 60950, EN 61000-6-2,
	EN 61000-6-3
	(*pending)