

Single Channel Electronic Circuit Breakers



787-2861-108-020

Features

- Space-saving ECB with one channel
- This model safely and reliably stops power in the event of an overload or if it short circuits on the secondary side
- The switch on capacity is $>50,000~\mu F$
- Minimizes wiring via two voltage outputs and maximizes commoning options in both input and output sides
- Switch the breaker on or off via remote input, or a local switch
- Prevents power supply overload due to total inrush current thanks to time delayed switching on during interconnected operation
- Bus up to 10 units together with the use of Jumper Bars

Single Channel Electronic Circuit Breaker Selection Chart							
Part Number	Price	Quantity Per Pack	Nominal Output Current	Mounting	Connection	Wiring	Drawing Link
787-2861-100-000	\$59.00	1	1A [Fixed Setting]	35mm DIN rail	Push-In CAGE CLAMP®	Diagram 1	PDF
787-2861-200-000	\$59.00	1	2A [Fixed Setting]				PDF
787-2861-400-000	\$59.00	1	4A [Fixed Setting]				PDF
787-2861-600-000	\$59.00	1	6A [Fixed Setting]				PDF
787-2861-800-000	\$59.00	1	8A [Fixed Setting]				PDF
787-2861-108-020	\$67.00	1	1 – 8A [Adjustable]				PDF

Single Channel Electronic Circuit Breaker Selection Chart: Accessories						
Part Number	Price	Description	Quantity Per Pack	Color	Nominal Current	Drawing Link
60432948	\$11.00	10 Pole Jumper Bar	5	Blue	18A	PDF
60432947	\$11.00		5	Red		<u>PDF</u>



60432948



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Single Channel ECB Specifications					
Nominal Input Voltage	24VDC				
Input Voltage Range	18 – 30VDC				
Total Number of Channels	1				
Nominal Output Voltage	24VDC				
Output Voltage Range	18 – 30VDC				
Voltage Drop	less than or equal to 50mV				
Nominal Output Current	See Selection Chart				
Trip Time	4ms to 100s [Load-Dependent]				
Switch-On Capacity	50,000uf per channel				
Switch-On Behavior	Time-delayed channel switching [Load-dependent, minimum]				
Active Current Limitation	No				
Signaling	1 x Status LED [green/yellow/red/blue] 1x Control input 1 x active signal output [Ui max. 4mA]				
Operation Status Indicator	See LED Operation Table				
Remote Input	18 to 30VDC signal, switches on/off and resets the channel				
Fuse Protection	15A [Internal Fuse]				
Isolation Voltage	DC 0.5 kV				
Protection Type	IP20 [per EN 60529]				
Reverse Voltage Protection	No				
Transient Suppression	Suppressor diode [33V]				
Series/Parallel Operation of Single Channels	Not Permitted				
Tightening Torque	N/A				
Weight g [oz]	3.79 [0.0083]				
Connectors	Push-In CAGE CLAMP©, Solid Conductor 28-14 AWG, Stranded Conductor 22-14 AWG				
Agency Approvals	EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; CE; RoHS				
Surrounding Air Temperature (Operation)	-25 to 70°C [-13 to 158°F]				
Surrounding Air Temperature (Storage)	-40 to 85°C [-40 to 185°F]				
Relative Humidity	10 to 95% [no condensation permissable]				
Derating	No derating				
Pollution Degree	2				

LED Operation			
Explanation	Status LED		
Initialization of the device(boot routine)	Off		
Channel switched ON	Green		
Channel switched ON Load current > 90% nominal current	Green flashing [1Hz]		
Channel switched ON Load current > 100% nominal current (overload)	Green flashing [5Hz]		
Channel switched OFF manually or through input S1	Red		
Channel tripped Wait for temperature to return to normal	Red flashing [1Hz]		
Channel tripped Temperature returned to normal. Channel can be switched ON again	Yellow flashing [1Hz]		
Channel tripped Undervoltage with simultaneous overcurrent	Blue flashing [1Hz]		
Channel tripped,undervoltage	Blue flickering [1Hz]		
Channel tripped,overvoltage	Red flickering [1Hz]		
Device error, wiring error, feedback voltage	Red/blue flashing [1Hz]		

Diagram 1

