

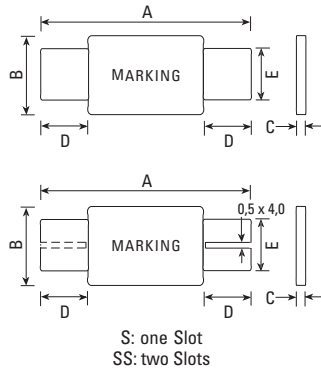
LTD / No. 717

Strap Type, 15V/24V

Specifications



Dimensions (mm)



Approvals

cULus Recognized: File No. E201431
TÜV: File No. 9956421

Features

Protection for rechargeable battery packs
Fast trip times
Low resistance for extended battery run-times
Weldable nickel terminals for direct mounting
Internationally approved
Low profile form factor, optimized for use in NiMH and Lithium Ion prismatic packs

WebLinks

Data Sheet

www.wickmannusa.com/products/717.pdf

Packaging

00: Bulk/small pack (Qty.: see table below)
01: Bulk/standard (Qty.: see table below)

Materials

Insulating Mat.: Polyester Tape
Terminals: Nickel

Device Surface Temperature in Tripped State

120°C Max.

Operating / Storage Temperature

-40°C to +85°C (see de-rating table)

Humidity Ageing

+85°C, 85% RH, 7 days, ± 5% typical resistance change

Passive Ageing

+70°C, 1000 hrs., ± 10% typical resistance change

Vibration

MIL-STD-883C, Condition A, no change

Thermal Shock

+85°C to -40°C, 10 times, ± 5% typical resistance change (MIL-STD-202F, Method 107G)

Marking

Model Type, "P", Current Code, Lot Code



Dimensions Legend						Packaging Quantity	
Rating	A min./max.	B min./max.	C min./max.	D min.	E min./max.	Bulk/ pack	Bulk/ standard
700mA / 15V	19.9 / 22.1	4.9 / 5.2	0.7 / 1.2	5.5	3.9 / 4.1	500	10000
700mA / 15V-S	19.9 / 22.1	4.9 / 5.2	0.7 / 1.2	5.5	3.9 / 4.1	500	10000
1.00A / 24V	20.9 / 23.1	4.9 / 5.2	0.6 / 1.0	4.1	3.9 / 4.1	500	10000
1.00A / 24V-S	20.9 / 23.1	4.9 / 5.2	0.6 / 1.0	4.1	3.9 / 4.1	500	10000
1.00A / 24V-SS	20.9 / 23.1	4.9 / 5.2	0.6 / 1.0	4.1	3.9 / 4.1	500	10000
1.80A / 24V	24.0 / 26.0	4.9 / 5.2	0.6 / 1.0	4.1	3.9 / 4.1	500	10000
1.80A / 24V-S	24.0 / 26.0	4.9 / 5.2	0.6 / 1.0	4.1	3.9 / 4.1	500	10000
1.80A / 24V-SS	24.0 / 26.0	4.9 / 5.2	0.6 / 1.0	4.1	3.9 / 4.1	500	10000
1.90A / 24V	21.3 / 23.4	10.2 / 11.0	0.5 / 1.0	5.0	4.8 / 5.4	500	10000
2.60A / 24V	24.0 / 26.0	10.8 / 11.9	0.6 / 1.0	5.0	5.9 / 6.1	500	10000
3.00A / 24V	28.4 / 31.8	13.0 / 13.5	0.5 / 1.1	6.3	6.0 / 6.6	500	10000
3.10A / 24V	24.0 / 26.0	14.8 / 15.9	0.6 / 1.0	5.0	5.9 / 6.1	500	10000
3.40A / 24V	24.0 / 26.0	14.8 / 15.9	0.6 / 1.0	5.0	5.9 / 6.1	500	10000

Permissible continuous operating current is ≤ 100% at ambient temperature of 20°C (68°F).

Hold Current I_{hold}	Model Code	Trip Current I_{trip} (A)	Voltage Rating (Vdc)	max. Fault Current I_{max} (A)	max. Power Dissipation P_d (W)	max. Time-to-trip (A) (s)	Resistance R_{min} min. (Ω) R_{1max} max. (Ω)	Model	Approvals cULus TÜV
700mA	07000	1.50	15	100	1.0	3.50 5.0	0.100 0.340	LTD070	• •
700mA -S	07001	1.50	15	100	1.0	3.50 5.0	0.100 0.340	LTD070S	• •
1.00A	11000	2.50	24	100	1.5	5.00 7.0	0.070 0.260	LTD100	• •
1.00A -S	11001	2.50	24	100	1.5	5.00 7.0	0.070 0.260	LTD100S	• •
1.00A -SS	11002	2.50	24	100	1.5	5.00 7.0	0.070 0.260	LTD100SS	• •
1.80A	11800	3.80	24	100	2.0	9.00 2.9	0.040 0.120	LTD180	• •
1.80A -S	11801	3.80	24	100	2.0	9.00 2.9	0.040 0.120	LTD180S	• •
1.80A -SS	11802	3.80	24	100	2.0	9.00 2.9	0.040 0.120	LTD180SS	• •
1.90A	11900	4.20	24	100	1.9	10.00 3.0	0.030 0.100	LTD190	• •
2.60A	12600	5.20	24	100	2.3	13.00 5.0	0.025 0.076	LTD260	• •
3.00A	13000	6.30	24	100	2.0	15.00 4.0	0.015 0.055	LTD300	• •
3.10A	13100	6.00	24	100	2.5	16.00 5.0	0.018 0.055	LTD310	• •
3.40A	13400	6.80	24	100	2.7	17.00 5.0	0.016 0.050	LTD340	• •

I_{hold} = Hold current: maximum current device will pass without tripping in 20°C still air.
 I_{trip} = Trip current: minimum current at which the device will trip in 20°C still air.
 V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max}).
 I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

P_d = Power dissipated from device when in the tripped state at 20°C still air.
 R_{min} = Minimum resistance of device in initial (un-soldered) state.
 R_{1max} = Maximum resistance of device at 20°C measured one hour after tripping

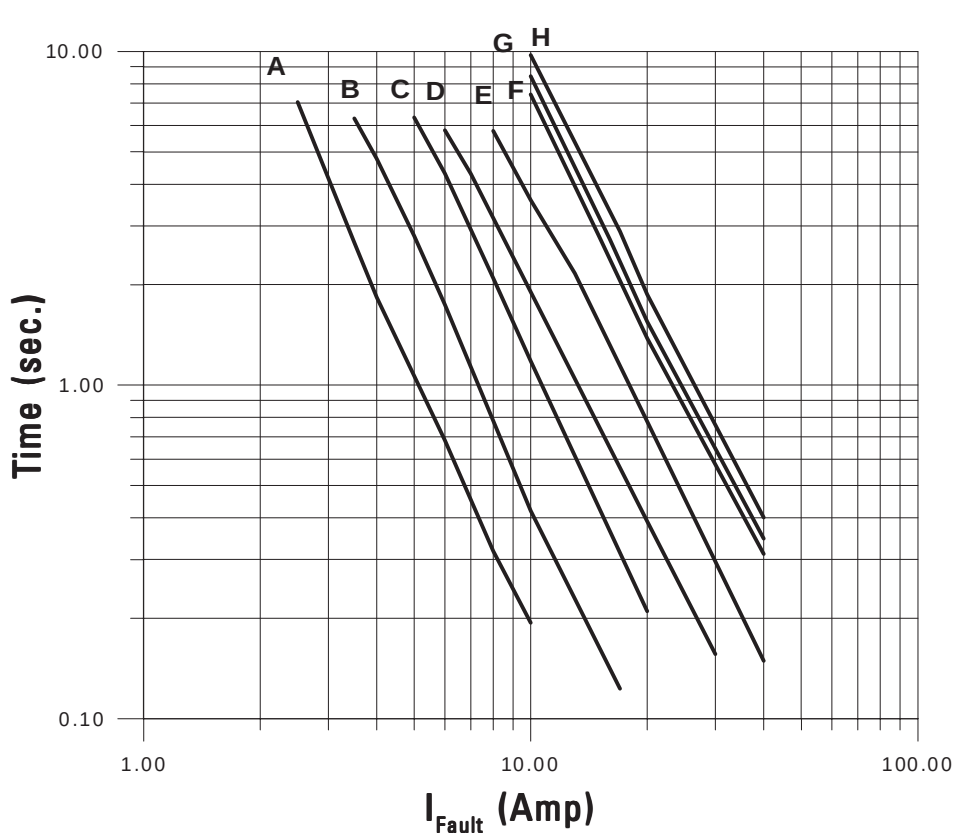
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame. Specifications are subject to change without notice.

Order Information

Qty.	Order- Number	Series	Model Code	Packaging
		717		

LTD / No. 717

Time-to-trip Characteristics



Rating	Curve
700mA / 15V	A
1.00A / 24V	B
1.80A / 24V	C
1.90A / 24V	D
2.60A / 24V	E
3.00A / 24V	F
3.10A / 24V	G
3.40A / 24V	H

Thermal Derating Chart

Rating	I_{hold} (Amp) / Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
700mA / 15V	1.20	1.09	0.85	0.70	0.50	0.45	0.35	0.28	0.16
1.00A / 24V	1.86	1.60	1.40	1.00	0.83	0.70	0.60	0.44	0.23
1.80A / 24V	3.13	2.68	2.20	1.80	1.33	1.10	0.90	0.65	0.36
1.90A / 24V	3.32	2.86	2.40	1.90	1.48	1.25	1.10	0.79	0.43
2.60A / 24V	4.30	3.72	3.10	2.60	1.98	1.69	1.40	1.11	0.60
3.00A / 24V	5.10	4.40	3.70	3.00	2.30	1.95	1.60	1.25	0.69
3.10A / 24V	5.36	4.58	3.70	3.10	2.36	2.01	1.70	1.30	0.71
3.40A / 24V	5.52	4.79	4.00	3.40	2.60	2.24	1.90	1.51	0.78