

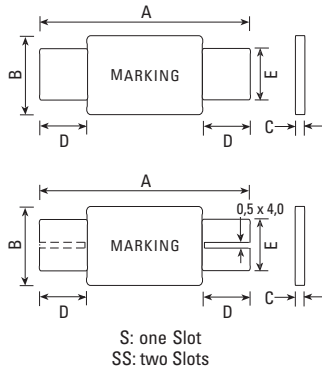
VTD / No. 719

Strap Type, 15V

Specifications



Dimensions (mm)



Approvals

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

Features

Protection for rechargeable battery packs
Low profile (0.8mm) form factor
Low resistance for extended battery run times
Fast trip times
Weldable nickel terminals for direct mounting
Lower trip temperature
Internationally approved
Optimized for use in latest generation Lithium Ion prismatic packs

WebLinks

Data Sheet

www.wickmannusa.com/products/719.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

110°C Max.

Operating / Storage Temperature

-40°C to +85°C (see de-rating table)

Humidity Ageing

+60°C, 95% RH, 1000 hrs., ± 10% typical resistance change

Passive Ageing

+60°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
1.70 A / 15V	15.4 / 17.5	7.0 / 7.4	0.5 / 0.8	4.0	3.9 / 4.1	500	10000
1.70 A / 15V-XS	20.9 / 22.9	4.9 / 5.3	0.5 / 0.8	4.0	3.9 / 4.1	500	10000
1.75 A / 15V	20.9 / 22.2	3.5 / 3.8	0.5 / 0.7	4.0	2.9 / 3.1	500	10000
1.75 A / 15V-S	20.9 / 22.2	3.5 / 3.8	0.5 / 0.7	4.0	2.9 / 3.1	500	10000
2.00 A / 15V	20.9 / 23.1	3.8 / 4.3	0.6 / 0.7	4.0	2.9 / 3.1	500	10000
2.00 A / 15V-S	20.9 / 23.1	3.8 / 4.3	0.6 / 0.7	4.0	2.9 / 3.1	500	10000
2.10 A / 15V	20.9 / 23.1	4.9 / 5.3	0.6 / 0.8	4.1	3.9 / 4.1	500	10000
2.10 A / 15V-S	20.9 / 23.1	4.9 / 5.3	0.6 / 0.8	4.1	3.9 / 4.1	500	10000
2.10 A / 15V-SS	20.9 / 23.1	4.9 / 5.3	0.6 / 0.8	4.1	3.9 / 4.1	500	10000
2.10 A / 15V-L	24.0 / 26.0	4.9 / 5.3	0.6 / 0.8	5.0	3.9 / 4.1	500	10000
2.10 A / 15V-LS	24.0 / 26.0	4.9 / 5.3	0.6 / 0.8	5.0	3.9 / 4.1	500	10000
2.40 A / 15V	24.2 / 26.2	4.9 / 5.3	0.6 / 0.8	5.0	3.9 / 4.1	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
1.70A	11700	3.40	15	100	1.4	8.50 3.0	0.030 0.105	VTD170	• •
1.70A-XS	11703	3.40	15	100	1.4	8.50 3.0	0.030 0.105	VTD170XS	• •
1.75A	11750	3.80	15	100	1.4	9.00 3.0	0.025 0.090	VTD175	• •
1.75A-S	11751	3.80	15	100	1.4	9.00 3.0	0.025 0.090	VTD175S	• •
2.00A	12000	4.50	15	100	1.5	10.00 4.0	0.021 0.080	VTD200	• •
2.00A-S	12001	4.50	15	100	1.5	10.00 4.0	0.021 0.080	VTD200S	• •
2.10A	12100	4.70	15	100	1.5	10.00 5.0	0.018 0.060	VTD210	• •
2.10A-S	12101	4.70	15	100	1.5	10.00 5.0	0.018 0.060	VTD210S	• •
2.10A-SS	12102	4.70	15	100	1.5	10.00 5.0	0.018 0.060	VTD210SS	• •
2.10A-L	12104	4.70	15	100	1.5	10.00 5.0	0.018 0.060	VTD210L	• •
2.10A-LS	12105	4.70	15	100	1.5	10.00 5.0	0.018 0.060	VTD210LS	• •
2.40A	12400	5.40	15	100	1.5	12.00 4.0	0.015 0.052	VTD240	• •

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.

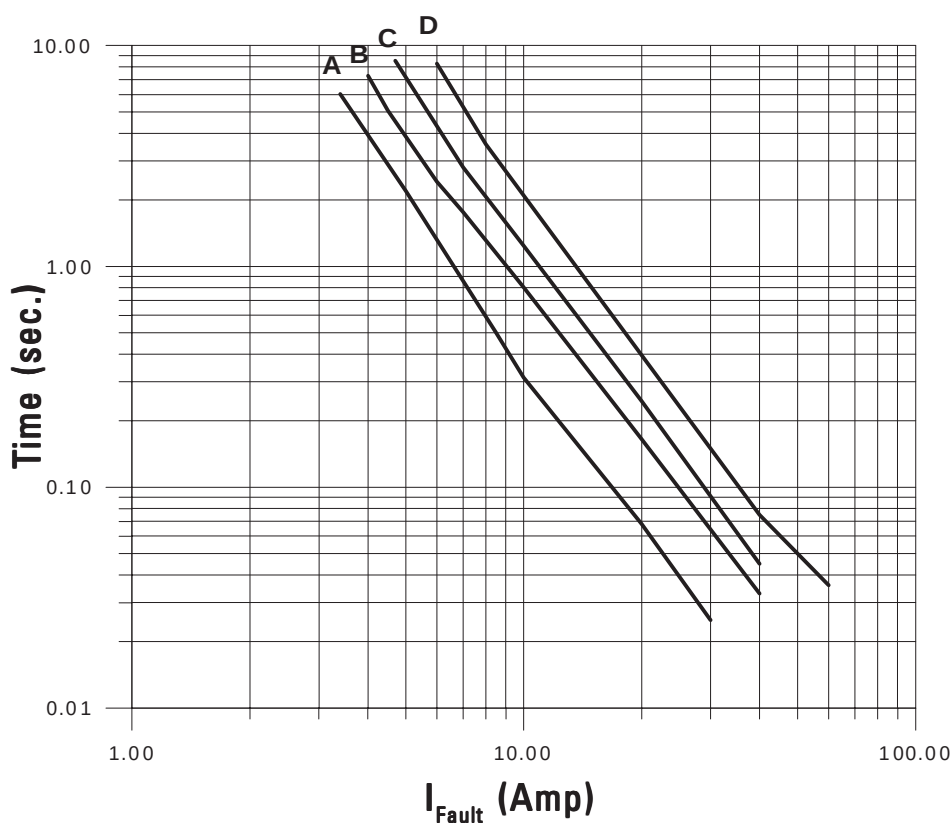
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame. Specifications are subject to change without notice.

Order Information

Qty.	Order-Number	Series	Model Code	Packaging
		719		

VTD / No. 719

Time-to-trip Characteristics



Rating

1.70A / 15V
 1.75A / 15V
 2.00A / 15V
 2.00A / 15V
 2.00A / 15V

Curve

A
p
 B
 C
 D

P = pending

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
1.70A / 15V	3.20	2.70	2.20	1.70	1.30	1.00	0.80	0.50	0.10
1.75A / 15V	3.20	2.70	2.20	1.75	1.30	1.00	0.80	0.50	0.10
2.00A / 15V	3.70	3.20	2.60	2.00	1.50	1.20	0.90	0.50	0.10
2.10A / 15V	4.10	3.50	2.90	2.10	1.60	1.30	1.00	0.70	0.10
2.40A / 15V	4.40	3.70	3.10	2.40	1.80	1.50	1.20	0.90	0.10