



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## No. 420 SM



## UL 248-14, 125 V, T

### Time-Current Characteristic

Time Lag (T)

### Standard

UL 248-14  
CSA C22.2 No. 248.14

### Approvals

cULus Recognized

### Features

Heat resistant ceramic housing  
For line or low voltage applications  
Low voltage drop  
Internationally approved  
High pulse resistance  
Also available as holder system 425 with mounted fuse 420  
CCCexemption for China Import

### WebLinks

#### Further info see:

[www.wickmanngroup.com](http://www.wickmanngroup.com)

#### Further application infos see Fuseology:

[www.wickmanngroup.com/download/fuseology.pdf](http://www.wickmanngroup.com/download/fuseology.pdf)

## Specifications

### Packaging

000: Blister tape 18 cm reel (1000 pcs.)  
001: Blister tape 33 cm reel (5000 pcs.)  
Tape width 12 mm

### Materials

Housing: Ceramic  
Element: Wire  
Terminals: Copper alloy, silver plated

### Operating Temperature

-55 °C to +125 °C (consider de-rating)

### Climatic Category

-55 °C/+125 °C/21 days (IEC 60068-1,-2-1,-2-2,-2-78)

### Stock Conditions

+10°C to +60°C  
relative humidity ≤ 75 % yearly average,  
without dew, maximum value for 30 days-95 %

### Vibration Resistance

24 cycles at 15 min each (IEC 60068-2-6)  
10 - 60 Hz at 0.75 mm amplitude  
60 - 2000 Hz at 10 g acceleration

### Solderability

235 °C, 3 s (IEC 60068-2-58)

### Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-58)

### Minimum Cross Section, Copper

Conducting path - 0.175 mm<sup>2</sup>  
Thickness - 0.035 mm

### Mounting

Avoid circuit traces below the fuse

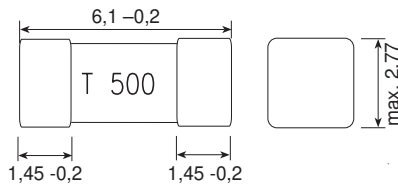
### Marking

T, Current Rating

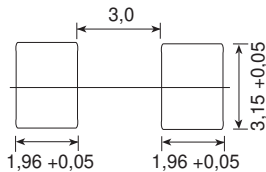
### Unit Weight

0.23g (approx.)

### Dimensions (mm)



### Pad Layout



### Limits for Pre-arcing Time

Rated Current	2.0 x I <sub>N</sub>
500 mA ... 5.00 A	1 s ... 60 s



Permissible continuous operating current is ≤ 70% at ambient temperature of 23°C (73.4°F).

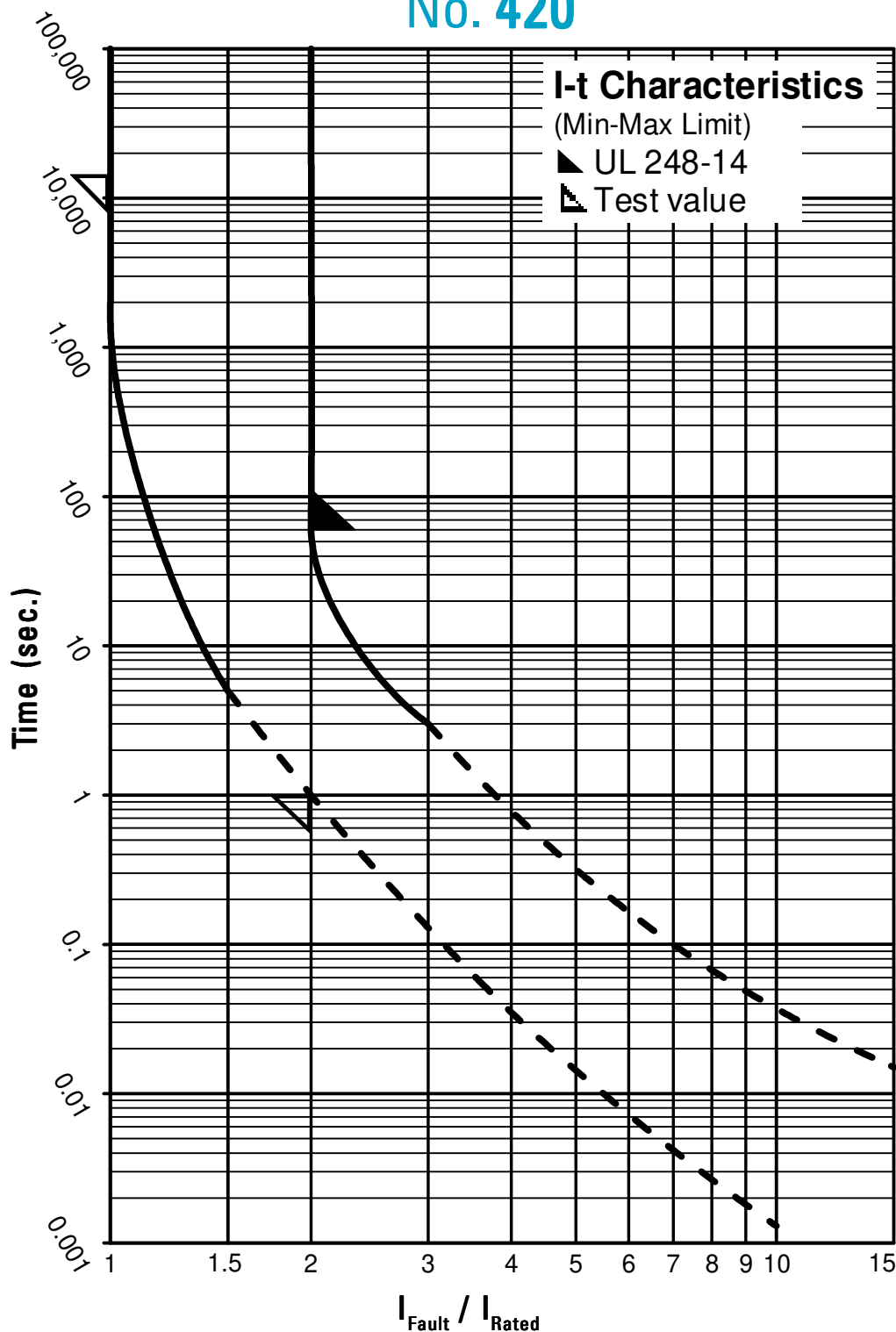
Rated Current	Amp code	Voltage Rating	Breaking Capacity	Voltage Drop	Power Dissipation	Melting Integral		Approvals	
				1.0 x I <sub>N</sub> (W) typ. (mV)	1.0 x I <sub>N</sub> (W) typ. (mW)	10 x I <sub>N</sub> (W) min. (A <sup>2</sup> s)	typ.	cULus	CCCe
500mA	0500	125V	50 A / 125 V AC 50-60Hz cos φ = 1.0	430	230	0.22	0.29	•	•
750mA	0750	125V		300	270	0.75	1.0	•	•
1.00A	1100	125V	50 A / 80 V DC	270	435	1.60	2.2	•	•
1.50A	1150	125V		150	270	3.20	5.0	•	•
2.00A	1200	125V	35 A / 125 V AC 50-60 Hz; cos φ = 1.0	165	380	5.50	6.8	•	•
2.50A	1250	125V		130	400	8.50	11.0	•	•
3.00A	1300	125V	50 A / 80 V DC	125	450	11.0	14.5	•	•
3.50A	1350	125V		112	512	21.0	28.0	•	•
4.00A	1400	125V	50 A / 80 V DC	110	560	30.0	40.0	•	•
5.00A	1500	125V		100	620	50.0	74.0	•	•

### Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		420		

Specifications are subject to change without notice

# No. 420



Contact WICKMANN for individual I-t curves