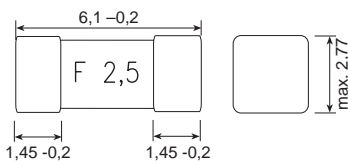


No. 419 SM

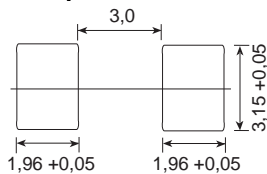
This product is not recommended for new designs. Please refer to Littelfuse No. 451.



Dimensions (mm)



Pad Layout



UL 248-14, 125 V, F

Time-Current Characteristic
Quick Acting (F)

Standard
UL 248-14
CSA C22.2 No. 248.14

Approvals
cULus Recognized
cULus Listed

Features

- Heat resistant ceramic housing
- For line or low voltage applications
- Low voltage drop
- Internationally approved
- Also available as holder system 424 with mounted fuse 419

WebLinks

Further infos see:
www.wickmanngroup.com

Further application infos see Fuseology:
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

-65 °C to +125 °C (consider de-rating)

Climatic Category

-65 °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, 2 s (IEC 60068-2-58)

Soldering Heat Resistance

260 °C, 10 s (IEC 60068-2-58)

Minimum Cross Section, Copper

- up to 5 A Conducting path - min 0.175 mm²
Path thickness - min 35 µm
- from 7 A on Conducting path - min 0.35 mm²
Path thickness - min 70 µm

Mounting

Avoid circuit traces below the fuse

Marking

F, Current Rating

Unit Weight

0.23 g (approx.)

Limits for Pre-arcing Time

Rated Current	1.0 x I _N	2.0 x I _N
62 mA ... 10.00 A	> 2 h	< 5 s
12.00 A ... 15.00 A	> 2 h	< 30 s



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

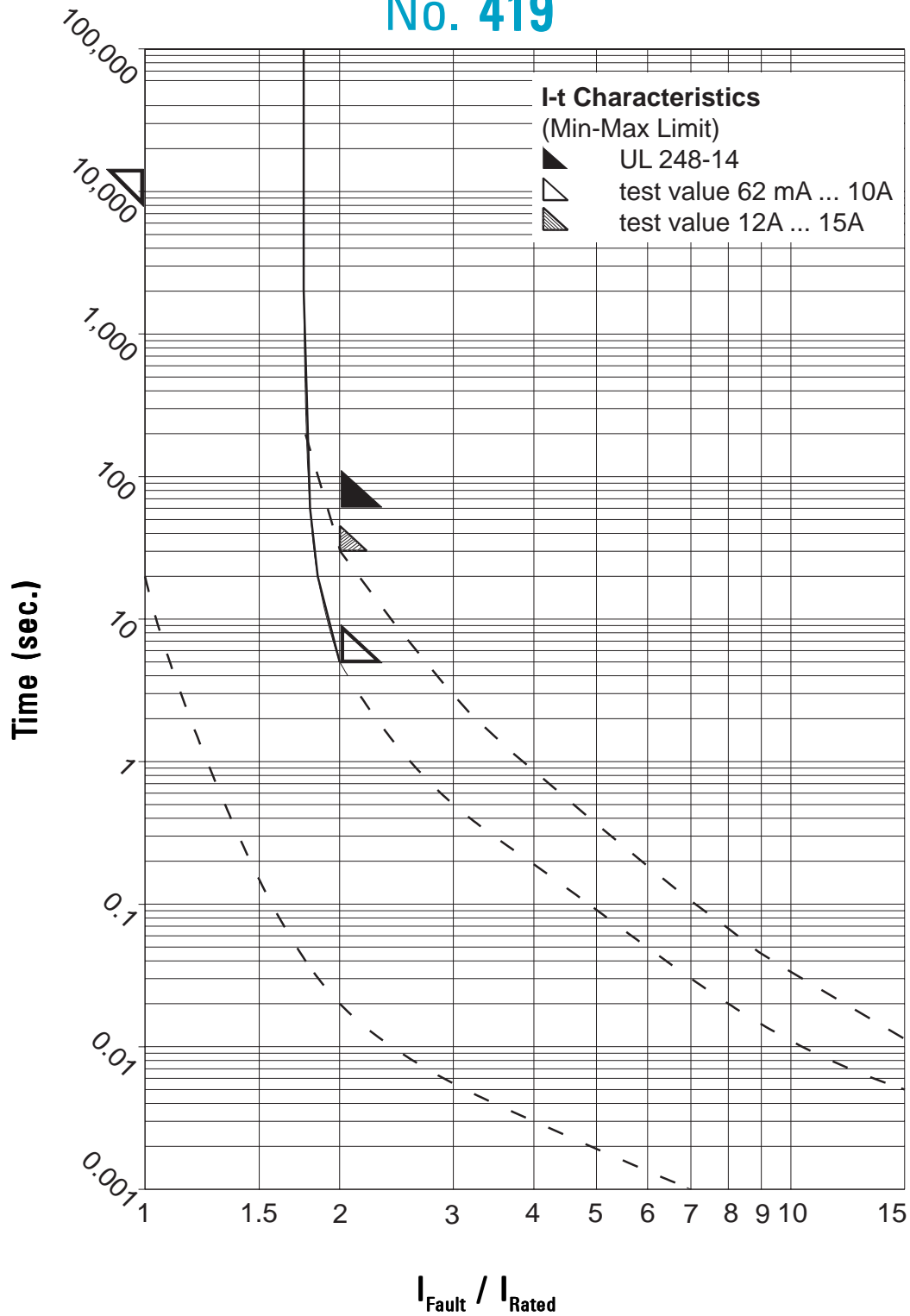
Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I _N typ. (mV)	Power Dissipation 1.0 x I _N typ. (mW)	Melting Integral 10 x I _N max. (A ² s) typ. (A ² s)		Approvals		
						cULus	cURus			
62mA	0062	125V		1600	85	0.00014	0.000095	•		
125mA	0125	125V		1300	120	0.00085	0.00067	•		
250mA	0250	125V		950	150	0.0065	0.0052	•		
500mA	0500	125V		360	200	0.093	0.074	•		
750mA	0750	125V	50 A / 125 V AC/DC 50-60 Hz cos φ = 1.0	350	300	0.25	0.20	•		
1.00A	1100	125V		210	230	0.50	0.42	•		
1.50A	1150	125V		250	500	1.10	0.95	•		
2.00A	1200	125V		180	400	1.10	0.90	•		
2.50A	1250	125V		220	550	1.20	0.95	•		
3.00A	1300	125V		160	600	2.00	1.70	•		
4.00A	1400	125V		140	670	4.30	3.42	•		
5.00A	1500	125V		130	750	7.50	6.80	•		
7.00A	1700	125V		35 A / 125 V AC 50-60 Hz	130	1200	13.60	11.60	•	
8.00 A	1800	125V		110	1300	17.50	13.80	•		
10.00A	2100	125V	cos φ = 1.0 100 A / 125 V DC	100	1400	27.00	23.50	•		
12.00A	2120	65V	50 A / 65 V AC/DC 50-60 Hz	70	1100	65.00	52.0	•		
15.00A	2150	65V	cos φ = 1.0 300 A / 24 V DC	58	1200	125.00	103.00	•		

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		419		

Specifications are subject to change without notice

No. 419



Contact WICKMANN for individual I-t curves