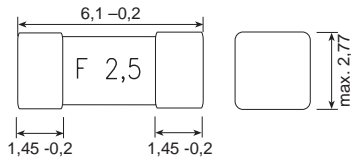


No. 419 SM

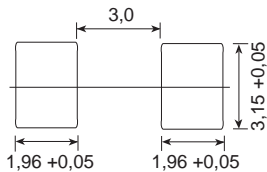
This product is not recommended for new designs. Please refer to Littelfuse No. 451.



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 info 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).

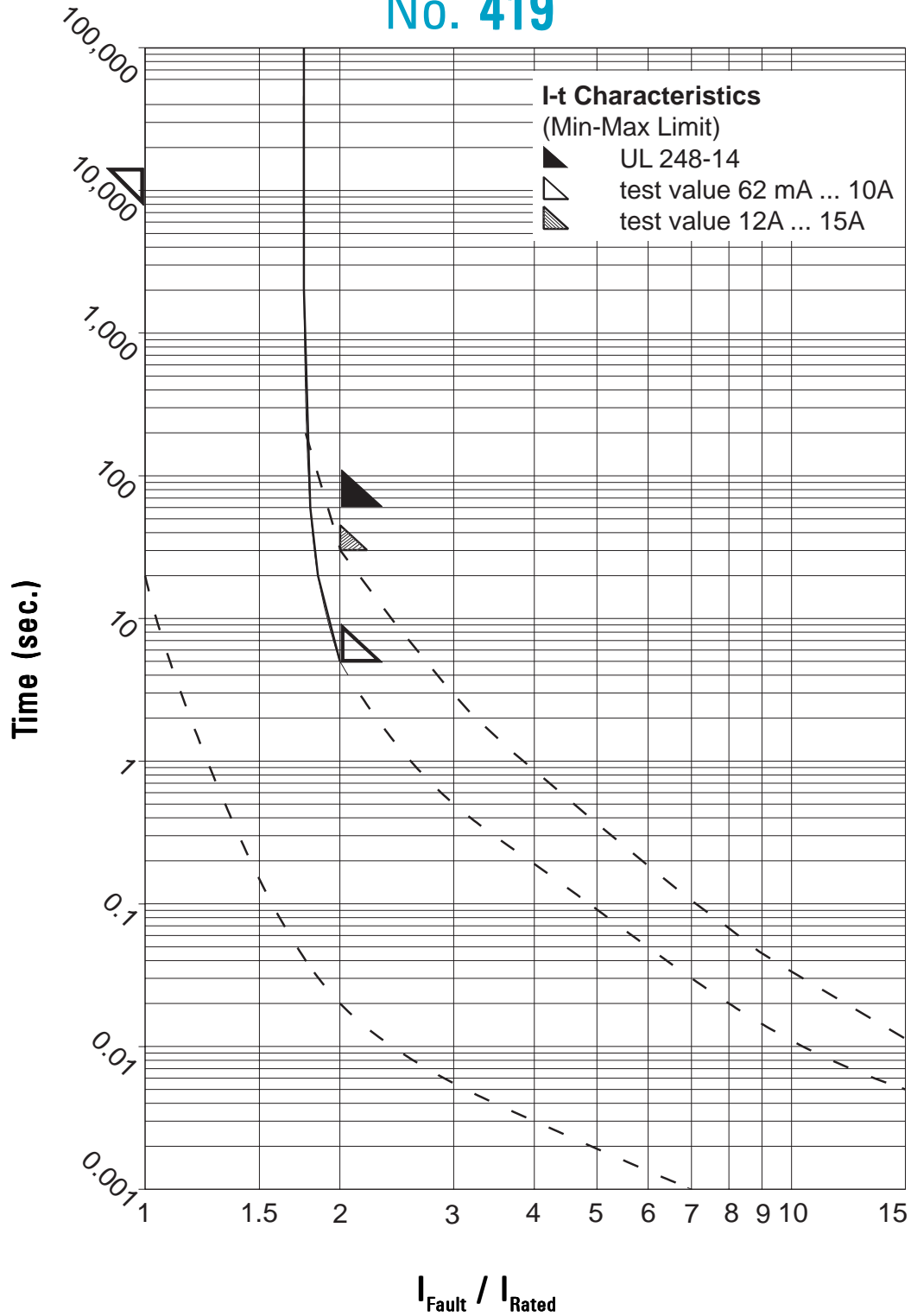
Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I _N  typ. (mV)	Power Dissipation 1.0 x I _N  typ. (mW)	Melting Integral 10 x I _N  max. (A ² s) typ. (A ² s)		Approvals	
						cULus	cURus		
62mA	0062	125V		1600	85	0.00014	0.000095	•	
125mA	0125	125V		1300	120	0.00085	0.00067	•	
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	350	300	0.25	0.20	•	
1.00A	1100	125V	50-60 Hz	210	230	0.50	0.42	•	
1.50A	1150	125V	cos φ = 1.0	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	130	1200	13.60	11.60	•	•
8.00 A	1800	125V	50-60 Hz	110	1300	17.50	13.80	•	•
10.00A	2100	125V	cos φ = 1.0	100	1400	27.00	23.50	•	•
			100 A / 125 V DC						
			50 A / 65 V AC/DC						
12.00A	2120	65V	50-60 Hz	70	1100	65.00	52.0	•	•
15.00A	2150	65V	cos φ = 1.0	58	1200	125.00	103.00	•	•
			300 A / 24 V DC						

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