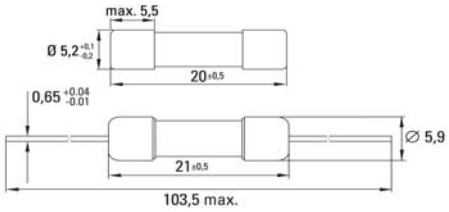
5x20 mm / No. 194

This product is not recommended for new designs. Please refer to Littelfuse No. 216.

Dimensions (mm)



Optional Holders

IEC 60127-2/I, 250V, F

Time-Current Characteristic
Quick Acting (F)

Standard
IEC 60127-2/I
DIN 41660

Approvals
VDE
SEMKO
cULus Recognized
CCC

Features

High breaking capacity
Direct solderable or plug-in versions
Internationally approved
Worldwide availability

WebLinks

Further info see:
www.wickmanngroup.com

Further application info see fuseology:
www.wickmanngroup.com/download/fuseology.pdf

Specifications

Packaging
000: Bulk (1000 pcs.)
002: Bulk (20x10 pcs.)
043: With mounted holder - Tape/Reel (1250 pcs.) on request

Materials

Tube:	Ceramic
End Caps:	Nickel-plated brass
Optional Holders:	Nickel-plated caps Tin-plated copper wires

Operating Temperature
-40 °C to +85 °C (consider de-rating)

Climatic Category
-40 °C / +85 °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 (EN 60068-6)
10 - 60 Hz at 0.75 mm amplitude
60 - 2000 Hz at 10 g acceleration

Solderability
260 °C, ≤ 3 s (Wave)
350 °C, ≤ 1 s (Soldering iron)

Soldering Heat Resistance
260 °C, 10 s (IEC 60068-2-20)

Marking
Ⓦ, F, Current Rating, H, 250 V, Approvals

Unit Weight
1.2 g (approx.)
2.2 g (with mounted holders)

RoHS

only 2 A / 2.5 A / 4 A / 8 A / 10 A

Limits for Pre-arcing Time

Rated Current	1.5 x I_N	2.1 x I_N	2.75 x I_N	4 x I_N	10 x I_N
200 mA ... 3.15 A	> 1 h	< 30 min	10 ms ... 2 s	3 ms ... 300 ms	< 20 ms
4.00 A ... 6.30A	> 1 h	< 30 min	10 ms ... 3 s	3 ms ... 300 ms	< 20 ms
8.00 A ... 10.00 A	> 30 min	< 30 min	10 ms ... 3 s	3 ms ... 300 ms	< 20 ms
12.50 A ... 16.00 A	>1 h	< 30 min	40 ms ... 20 s	10 ms ... 1 s	< 30 ms

Permissible continuous operating current is ≤ 100 % at ambient temperature of 23 °C (73.4 °F).

Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I_N Ⓦ max. (mV)	Power Dissipation 1.5 x I_N Ⓦ max. (W)	Melting Integral 10 x I_N Ⓦ max. (A^2s)	Approvals VDE	SEMKO	cURus	CCC
200 mA [1]	0200	250 V		3500	1.2	0.007	•	•		p
250 mA [1]	0250	250 V		1000	0.8	0.013	•	•		p
315 mA [1]	0315	250 V		950	0.8	0.015	•	•	•	p
400 mA [1]	0400	250 V		900	0.9	0.027	•	•	•	p
500 mA [1]	0500	250 V		850	1.0	0.041	•	•	•	p
630 mA [1]	0630	250 V		800	1.1	0.075	•	•	•	p
800 mA [1]	0800	250 V		750	1.3	0.12	•	•	•	p
1.00 A	1100	250 V		700	1.4	0.29	•	•	•	•
1.25 A	1125	250 V	1500 A / 250 V AC 50-60 Hz	650	1.6	0.7	•	•	•	•
1.60 A	1160	250 V	cos φ = 0.7-0.8	500	1.8	1.0	•	•	•	•
2.00 A	1200	250 V		400	2.0	1.8	•	•	•	•
2.50 A	1250	250 V		350	2.3	3.0	•	•	•	•
3.15 A	1315	250 V		300	2.8	7.8	•	•	•	•
4.00 A	1400	250 V		270	3.5	15	•	•	•	•
5.00 A	1500	250 V		250	3.7	35	•	•	•	•
6.30 A	1630	250 V		200	4.0	75	•	•	•	•
8.00 A	1800	250 V		150	3.8	70	p	p	•	
10.00 A	2100	250 V		170	3.9	150	p	p	•	
12.50 A [1]	2125	250 V	750 A / 250 V AC 1000 A / 125 V AC	100	4.0	250	G	*	•	
16.00 A [1]	2160	250 V	cos φ = 1	90	4.5	480	G	*	•	

[1] Not mentioned in the fuse standards.

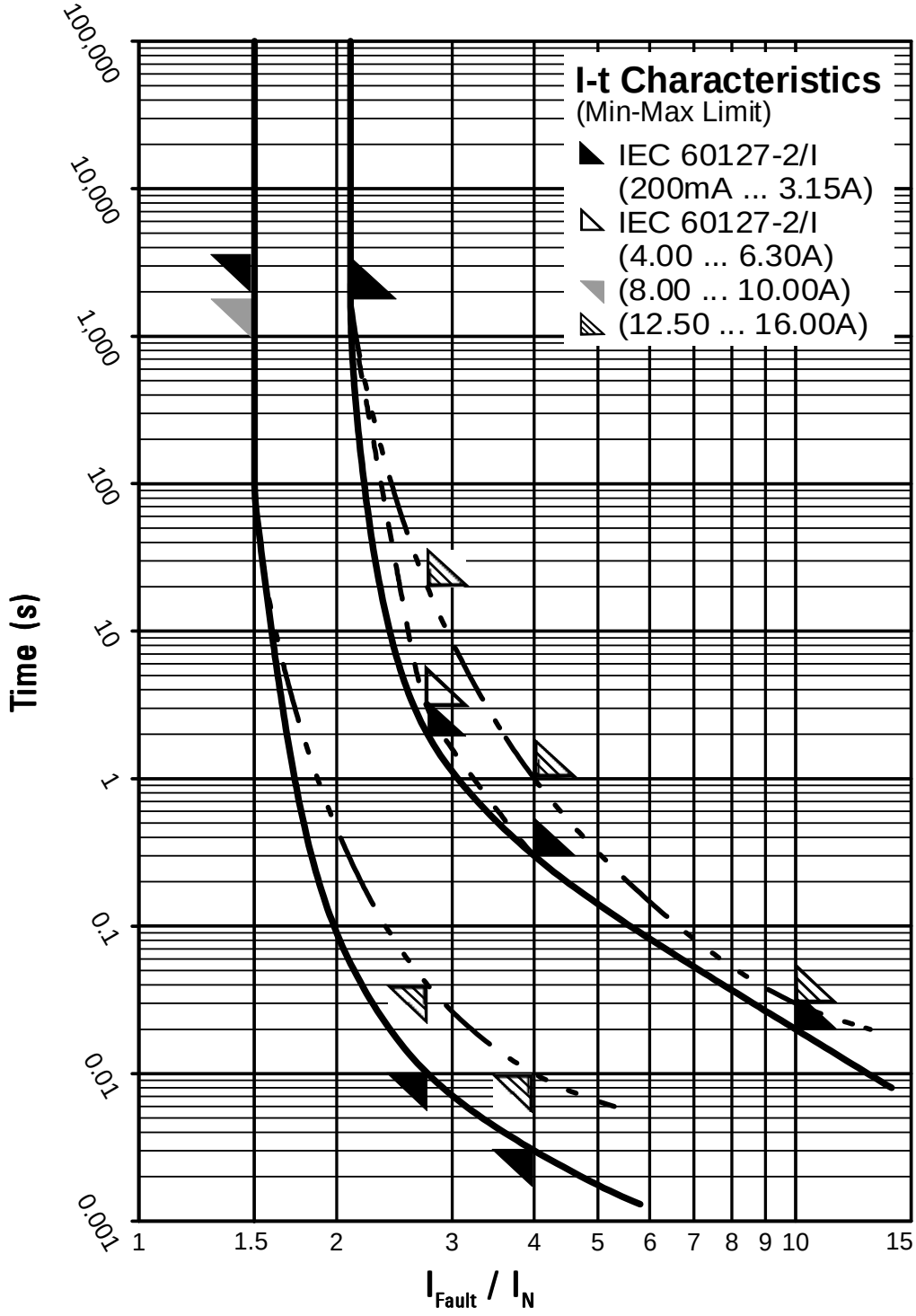
* test report available
G Expert Report
p=pending

Specifications are subject to change without notice.

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		194		

5x20 mm / No. 194



Contact WICKMANN for individual I-t curves