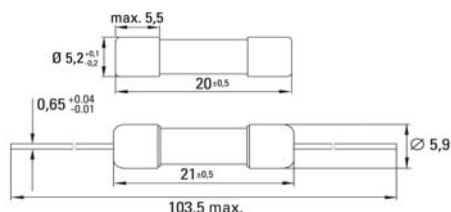


5x20mm / No. 195

This product is not recommended for new designs. Please refer to Littelfuse No. 218.



Dimensions (mm)



Optional Holders*

IEC 60127-2/III, 250 V, T

Time-Current Characteristic

Time Lag (T)

Standard

IEC 60127-2/III & DIN 41662

Approvals

- VDE
- SEMKO
- cULus Recognized
- BSI
- IMQ
- METI-PSE
- CCC

Features

- Visual fault indication
- 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*
- *approvals pending for Pb-free fuse with holders

Materials

- Tube: Glass
- 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 (mounted holders)

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

Soldering Heat Resistance (mounted holders)

260 °C, 10 s (IEC 60068-2-20)

Marking

Ⓜ, T, Current Rating, L, 250 V, Approvals

Unit Weight

- 1.1 g (approx.)
- 2.1 g (with leads)



only 100 mA up to 16 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
32 mA ... 100 mA	> 1 h	< 2 min	200 ms ... 10 s	40 ms ... 3 s	10 ms ... 300 ms
125 mA ... 10.00 A	> 1 h	< 2 min	600 ms ... 10 s	150 ms ... 3 s	20 ms ... 300 ms
12.50 A ... 16.00 A	> 30 min	< 10 min	--	--	20 ms ... 300 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 Ⓜ min. (A ² s)	Approvals
							VDE SEMKO cULus BSI IMQ METI-PSE CCC
32 mA	0032	250 V		2500	0.2	0.010	• • • • • •
40 mA	0040	250 V		1600	0.2	0.011	• • • • • •
50 mA	0050	250 V		1500	0.3	0.020	• • • • • •
63 mA	0063	250 V		1300	0.3	0.026	• • • • • •
80 mA	0080	250 V		1100	0.3	0.052	• • • • • •
100 mA	0100	250 V		1000	0.3	0.073	• • • • • •
125 mA	0125	250 V		900	0.3	0.13	• • • • • •
160 mA	0160	250 V		800	0.4	0.22	• • • • • •
200 mA	0200	250 V		600	0.4	0.30	• • • • • •
250 mA	0250	250 V		550	0.4	0.32	• • • • • •
315 mA	0315	250 V		350	0.5	1.1	• • • • • •
400 mA	0400	250 V		300	0.5	2.4	• • • • • •
500 mA	0500	250 V	35A / 250 V AC	250	0.6	3.8	• • • • • •
630 mA	0630	250 V	50-60 Hz	200	0.6	7.5	• • • • • •
800 mA	0800	250 V	cos φ = 1.0	180	0.7	10	• • • • • •
1.00 A	1100	250 V		150	0.7	11	• • • • • •
1.25 A	1125	250 V		135	0.8	20	• • • • • •
1.60 A	1160	250 V		125	0.9	36	• • • • • •
2.00 A	1200	250 V		110	0.9	10	• • • • • •
2.50 A	1250	250 V		100	1.0	14	• • • • • •
3.15 A	1315	250 V		90	1.1	25	• • • • • •
4.00 A	1400	250 V	40 A/250 V AC/cos φ=1	80	1.2	42	• • • • • •
5.00 A	1500	250 V	50 A/250 V AC/cos φ=1	70	1.3	70	• • • • • •
6.30 A	1630	250 V	63 A/250 V AC/cos φ=1	70	1.5	120	• • • • • •
8.00 A ¹	1800	125 V / 250 V*	63 A/250 V AC/cos φ=1	90	2.6	200	• • • • • •
			80 A/125 V AC/cos φ=1				
10.00 A ¹	2100	125 V / 250 V*	63 A/250 V AC/cos φ=1	95	3.0	400	• • • • • •
			100 A/125V AC/cos φ=1				
12.50 A ¹	2125	250 V	63 A/250 V AC/cos φ=1	120	3.5	650	• • • • • •
16.00 A ¹	2160	250 V	63 A/250 V AC/cos φ=1	120	4.0	1000	• • • • • •

¹ Depending on the application and mounting, the fuse heating at max. ambient temperature in a closed fuseholder should be considered.

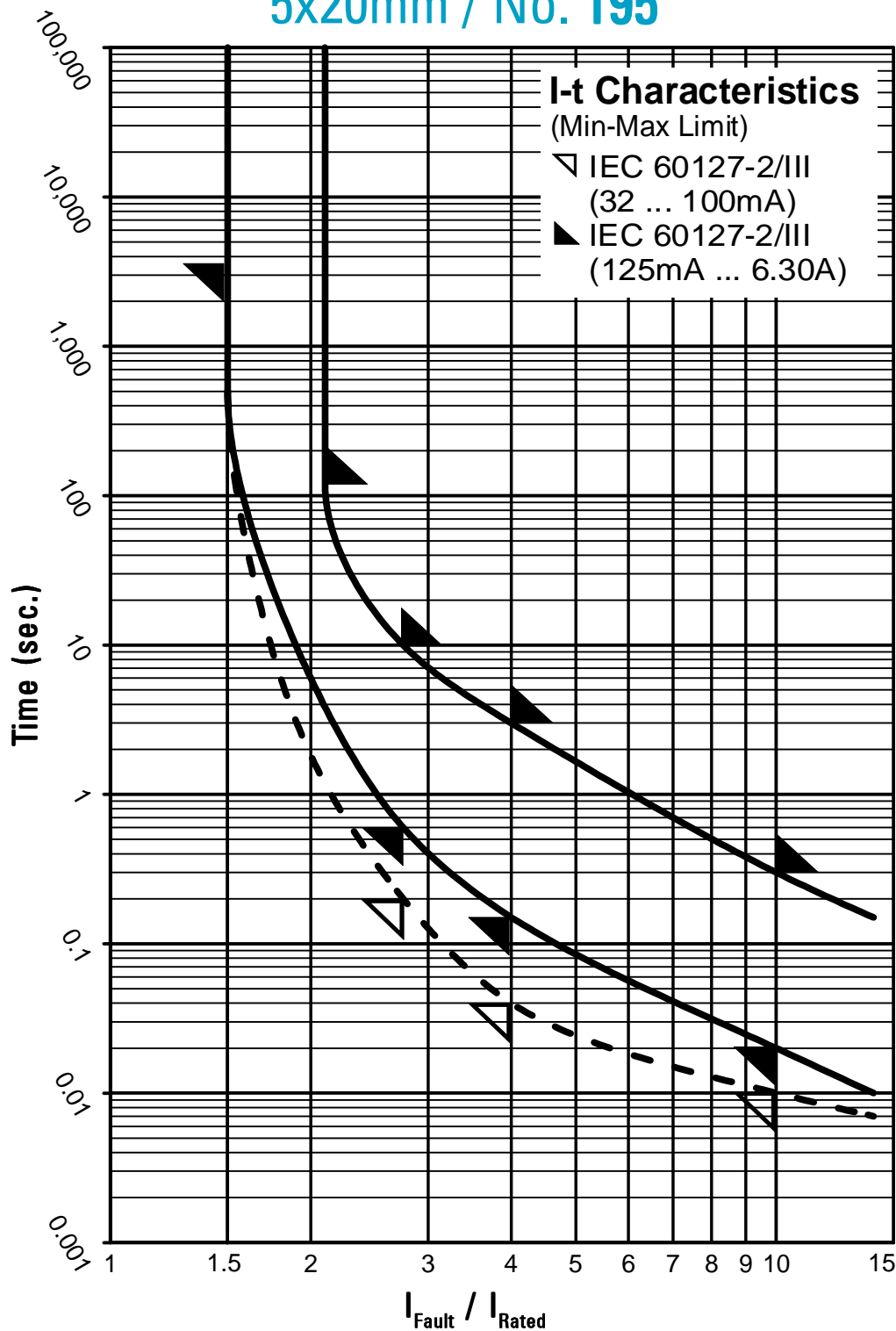
* 125 V AC according to IEC 60127 (fuse is engraved with 125 V) / 250 V AC cULus approved.

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		195		

p=pending
Specifications are subject to change without notice.

5x20mm / No. 195



Contact WICKMANN for individual I-t curves