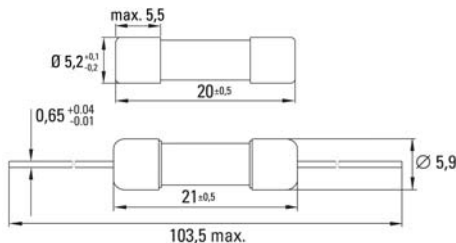


5x20 mm / No. 181

This product is not recommended for new designs. Please refer to Littelfuse No. 215.



Dimensions (mm)



Optional holders*

IEC 60127-2/V, 250 V, T

Time-Current Characteristic

Time Lag (T)

Standard

IEC 60127-2/V

Approvals

VDE
SEMCO
cULus Recognized
BSI
SEV
METI-PSE
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 holders - Tape/Reel (1250 pcs.) on request*
*approvals pending for Pb-free fuse with holders

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 60068-2-6)
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

W, T, Current Rating, H, 250 V, Approvals

Unit Weight

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



only 1.25 up to 10.0 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
125 ... 800 mA / 8 ... 10 A	> 1h	< 30 min	--	60 ms ... 5 s	10 ms ... 100 ms
1.00 A ... 3.15 A	> 1h	< 30 min	1 s ... 80 s	95 ms ... 5 s	10 ms ... 100 ms
4.00 mA ... 6.30 A	> 1h	< 30 min	1 s ... 80 s	150 ms ... 5 s	20 ms ... 100 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 (W) max. (mV)	Power Dissipation 1.5 x I _N (W) max. (W)	Melting Integral 10 x I _N (W) min. (A²s)	VDE	SEMCO	cULus	BSI	SEV	METI-PSE	CCC	CNCA
125 mA	0125	250 V		2000	0.5	0.025	p	p	•					•
160 mA	0160	250 V		1550	0.6	0.035	p	p	•					•
200 mA	0200	250 V		1300	0.6	0.084	p	p	•					•
250 mA	0250	250 V		1000	0.7	0.11	p	p	•					•
315 mA	0315	250 V		900	0.8	0.19	p	p	•					•
400 mA	0400	250 V		800	0.9	0.34	p	p	•					•
500 mA	0500	250 V		650	1.0	0.56	p	p	•					•
630 mA	0630	250 V	1500 A / 250 V AC	550	1.1	0.77	p	p	•					•
800 mA	0800	250 V	50-60 Hz	450	1.2	1.6	p	p	•					•
1.00 A	1100	250 V	cos φ = 0.7-0.8	250	1.4	1.0	•	•	•	•	•	•	•	•
1.25 A	1125	250 V		190	0.65	2.2	•	•	•	•	•	•	•	•
1.60 A	1160	250 V		160	0.67	5.34	•	•	•	•	•	•	•	•
2.00 A	1200	250 V		160	0.86	8.64	•	•	•	•	•	•	•	•
2.50 A	1250	250 V		180	0.95	19.5	•	•	•	•	•	•	•	•
3.15 A ¹	1315	250 V		180	1.12	34	•	•	•	•	•	•	•	•
4.00 A ¹	1400	250 V		96	1.37	77.9	•	•	•	•	•	•	•	•
5.00 A ¹	1500	250 V		95	1.5	77	•	•	•	•	•	•	•	•
6.30 A ¹	1630	250 V		90	1.6	115	•	•	•	•	•	•	•	•
8.00 A ¹	1800	250 V		90	3.6	77	•	•	•	•	•	•	•	•
10.00 A ¹	2100	250 V		90	4.0	180	•	•	•	•	•	•	•	•

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

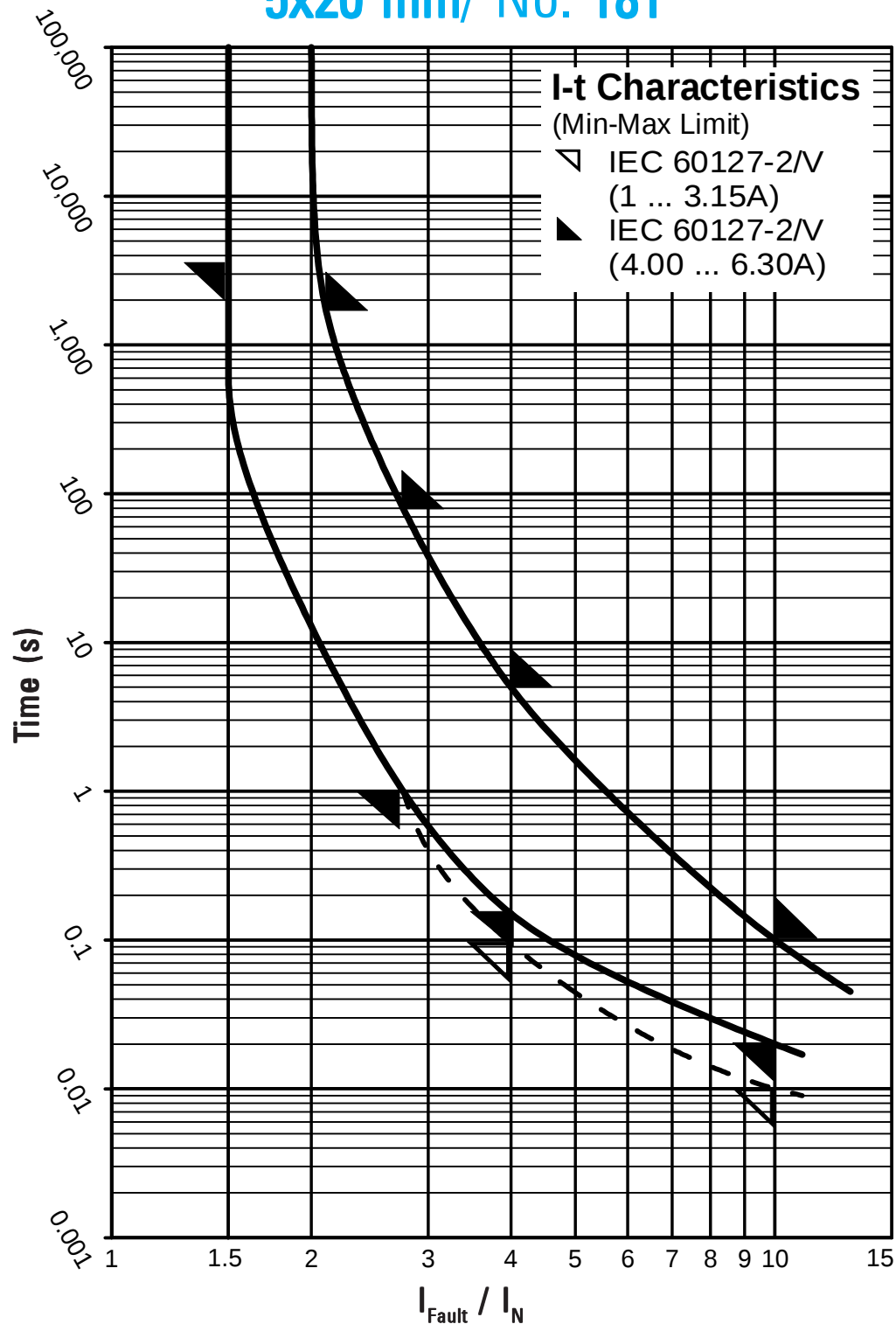
p=pending

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		181		

Specifications are subject to change without notice

5x20 mm/ No. 181



Contact WICKMANN for individual I-t curves