

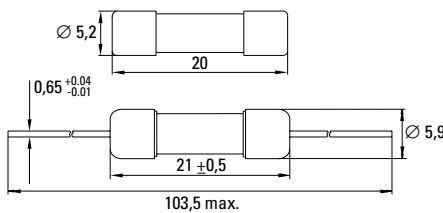
5x20mm / No. 193

IEC 60127-2/II, 250V, F

Specifications



Dimensions (mm)



Time-Current Characteristic
Quick Acting (F)

Standard

IEC 60127-2/II
DIN 41661

Approvals

VDE: License No. 139238/139240
SEMKO: Certificate No. 9847165
cULus Recognized: File No. E 67006
CCEE: Certificate No. 0026527-98

Features

Visual fault indication
Direct solderable or plug-in versions
Internationally approved
Worldwide availability

WebLinks

Data Sheet

<http://www.wickmann.com/products/193.pdf>

Approval Certificates

<http://www.wickmann.com/approvals>

Time-Current Curve

<http://www.wickmann.com/itcurves>

Packaging

<http://www.wickmann.com/pack>

Further application infos see Fuseology:

<http://www.wickmann.com/download/fuseology.pdf>

Packaging

000: Bulk (1000 pcs.)
002: Bulk (10 pcs.)
040: Axial Leads - Bulk (1000 pcs.)
043: Axial Leads - Tape/Reel (1250 pcs.)

Materials

Tube: Glass
End Caps: Nickel-plated brass
Axial Leads: Silver-plated caps
Tin-plated copper wires

Operating Temperature

-25°C to +70°C (consider de-rating)

Climatic Category

-25°C/+70°C/21 days (EN 60068-1.3)

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 - 60Hz at 0.75mm amplitude
60 - 2000Hz at 10g acceleration


Solderability

260°C, ≤ 3 sec. (Wave)
350°C, ≤ 1 sec. (Hand)

Soldering Heat Resistance

260°C, 10 sec. (IEC 60068-2-20)

Marking

, F, Current Rating, L, 250V, Approvals

Unit Weight

1.0g (approx.)
1.9g (with leads)

Limits for Pre-arcing Time

Rated Current	1.5 x I _{Rated}	2.1 x I _{Rated}	2.75 x I _{Rated}	4 x I _{Rated}	10 x I _{Rated}
32mA ... 100mA	> 1h	< 30 min	10ms ... 500ms	3ms ... 100ms	<20ms
125mA ... 6.30A	> 1h	< 30 min	50ms ... 2s	10ms ... 300ms	<20ms



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 _{Rated} max. (mV)	Power Dissipation 1.5 x I _{Rated} max. (W)	Melting Integral 10 x I _{Rated} max. (A ² s)	Approvals			
							VDE	SEMKO	CURus	CCEE
32mA	0032	250V		10000 ¹	1.6 ¹	0.0020				
40mA	0040	250V		8000 ¹	1.6 ¹	0.0032				
50mA	0050	250V		7000 ¹	1.6 ¹	0.0050	•	•	•	
63mA	0063	250V		5000 ¹	1.6 ¹	0.0079	•	•	•	
80mA	0080	250V		3300	0.6	0.0032	•	•	•	
100mA	0100	250V		2600	0.7	0.007	•	•	•	
125mA	0125	250V		2000	0.8	0.014	•	•	•	
160mA	0160	250V		2000	0.9	0.024	•	•	•	
200mA	0200	250V		300	0.2	0.018	•	•	•	
250mA	0250	250V	35A / 250VAC	270	0.3	0.032	•	•	•	
315mA	0315	250V	50-60Hz	250	0.3	0.062	•	•	•	
400mA	0400	250V	cos φ = 1.0	200	0.3	0.13	•	•	•	
500mA	0500	250V		190	0.3	0.23	•	•	•	•
630mA	0630	250V		180	0.4	0.44	•	•	•	
800mA	0800	250V		170	0.5	1.0	•	•	•	
1.00A	1100	250V		165	0.6	1.4	•	•	•	•
1.25A	1125	250V		160	0.8	2.7	•	•	•	
1.60A	1160	250V		155	1.0	4.3	•	•	•	
2.00A	1200	250V		150	1.0	7.8	•	•	•	•
2.50A	1250	250V		145	1.1	13	•	•	•	
3.15A	1315	250V		140	1.3	20	•	•	•	•
4.00A	1400	250V	40A/250VAC/cos φ=1.0	130	2.1	21	•	•	•	
5.00A	1500	250V	50A/250VAC/cos φ=1.0	125	2.3	38	•	•	•	
6.30A	1630	250V	63A/250VAC/cos φ=1.0	100	2.5	72	•	•	•	

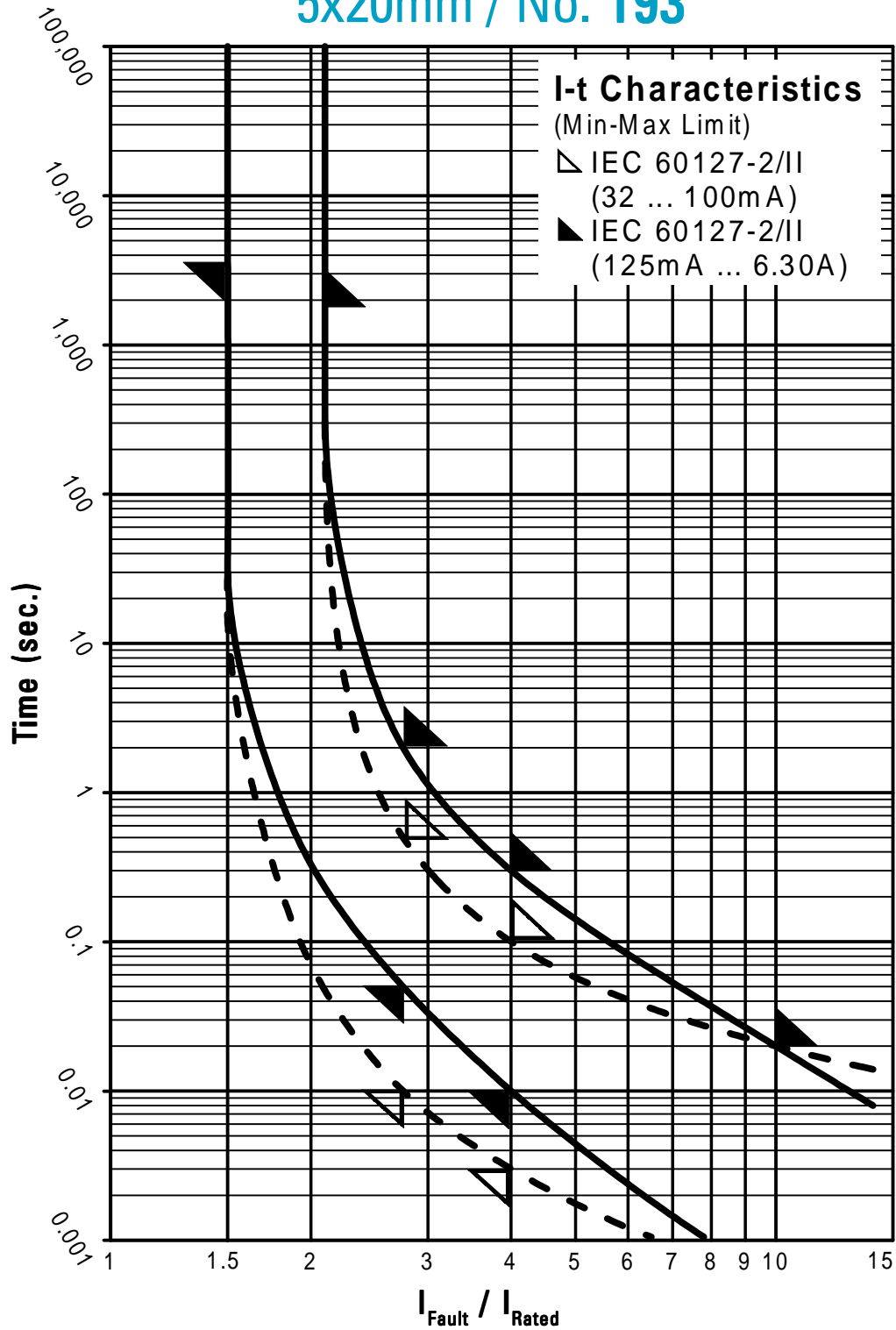
¹ IEC 60127-2 values

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		193		

Specifications are subject to change without notice.

5x20mm / No. 193



Contact WICKMANN for individual I-t curves