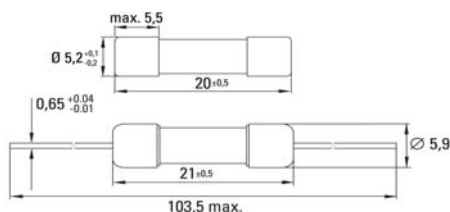


5x20 mm / No. 191

This product is not recommended for new designs. Please refer to Littelfuse No. 235.



Dimensions (mm)



Optional Holders

UL 248-14, 250 V, F

Time-Current Characteristic

Quick Acting (F)

Standard

UL 248-14
CSA C22.2 No. 248.14

Approvals

UL Listed
cUL Listed
METI-PSE

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 holders - Tape/Reel (1250 pcs.) on request

Materials

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

Operating Temperature

-25 °C to +70 °C (consider de-rating)

Climatic Category

-25 °C / +70 °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

Ⓢ, Current Rating, 250 V AC, 191, Approvals

Unit Weight

1.0 g (approx.)
1.9 g (with mounted holders)

Limits for Pre-arcing Time

Rated Current	1.35 x I _N	2.0 x I _N	2.0 x I _N Ⓢ
250 mA ... 7.00 A	< 1 h	< 120 s	< 5 s



Permissible continuous operating current is ≤ 75 % at ambient temperature of 23 °C (73.4 °F).

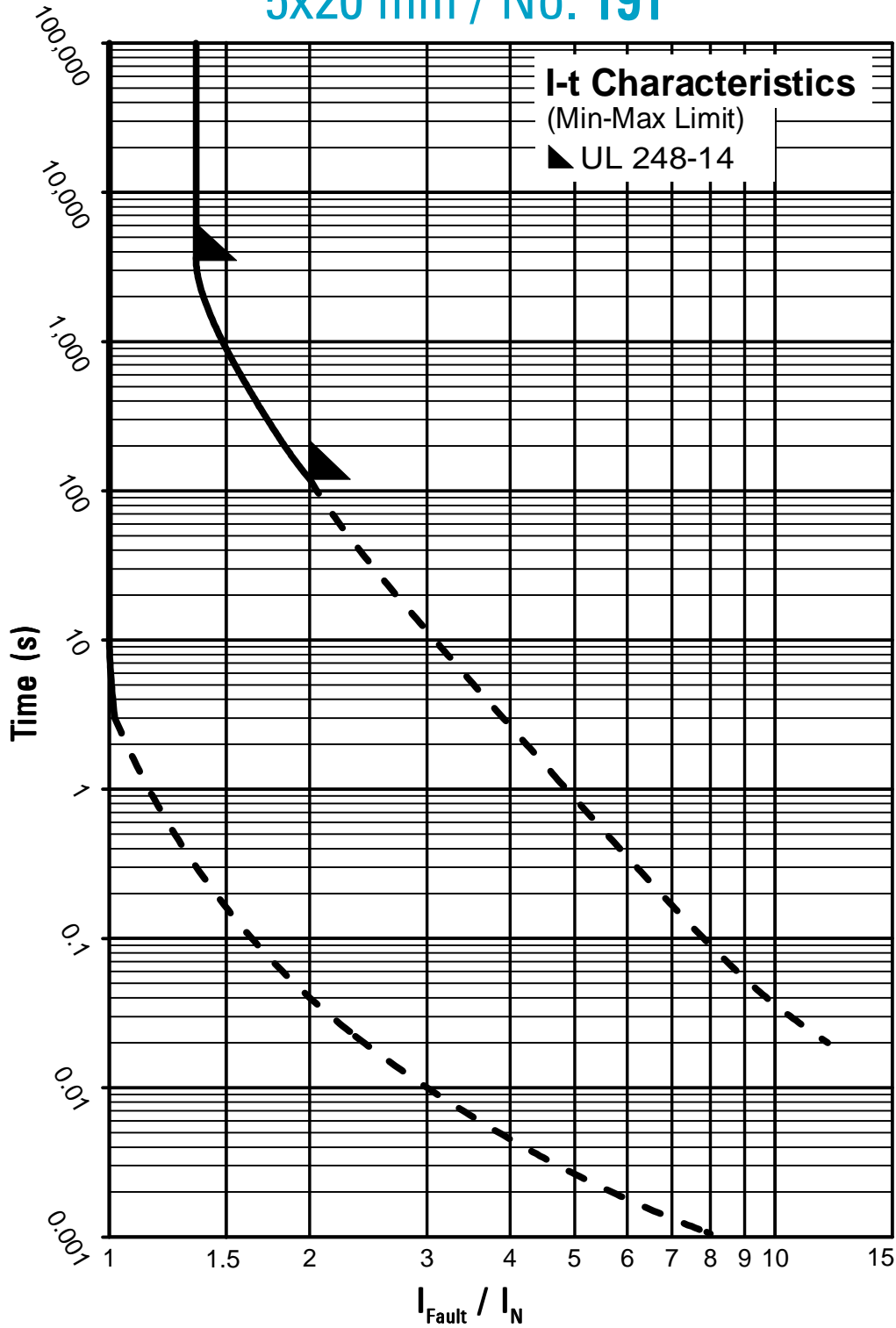
Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I _N Ⓢ max. (mV)	Power Dissipation 1.0 x I _N Ⓢ max. (W)	Melting Integral 10 x I _N Ⓢ max. (A ² s)	Approvals		
							UL	cUL	METI-PSE
250 mA	0250	250 V		350	0.3	0.024	•	•	
300 mA	0300	250 V		300	0.3	0.047	•	•	
350 mA	0350	250 V		300	0.4	0.081	•	•	
400 mA	0400	250 V	35 A / 250 V AC	280	0.4	0.11	•	•	
500 mA	0500	250 V	10 kA / 125 V AC	250	0.4	0.24	•	•	
600 mA	0600	250 V	50-60 Hz	230	0.5	0.38	•	•	
700 mA	0700	250 V	cos φ = 0.7-0.8	210	0.5	0.54	•	•	
800 mA	0800	250 V		200	0.6	0.6	•	•	
1.00 A	1100	250 V		180	0.6	1.7	•	•	•
1.25 A	1125	250 V		170	0.7	2.8	•	•	•
1.60 A	1160	250 V	100 A / 250 V AC	150	0.8	5.4	•	•	•
2.00 A	1200	250 V	10 kA / 125 V AC	130	0.9	11	•	•	•
2.50 A	1250	250 V	50-60 Hz	120	1.0	13	•	•	•
3.00 A	1300	250 V	cos φ = 0.7-0.8	115	1.1	21	•	•	•
3.50 A	1350	250 V		110	1.3	32	•	•	•
4.00 A	1400	125 V		105	1.3	40	•	•	•
5.00 A	1500	125 V	10 kA / 125 V AC	100	1.4	69	•	•	•
6.00 A	1600	125 V	50-60 Hz	95	1.4	120	•	•	
7.00 A	1700	125 V	cos φ = 0.7-0.8	90	1.4	180	•	•	

Order Information

Qty.	Order-Number	Series	Amp Code	Packaging
		191		

Specifications are subject to change without notice

5x20 mm / No. 191



Contact WICKMANN for individual I-t curves