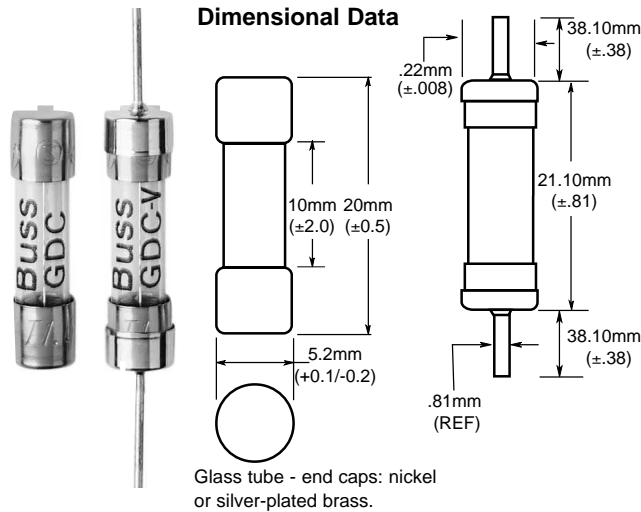


# 5 x 20mm Ferrule Fuses

## Time-Delay, Low Breaking Capacity

GDC  
GDC-V



CATALOG SYMBOL: GDC  
 TIME-DELAY, LOW BREAKING CAPACITY  
 250 VOLTS AC  
 UL RECOGNIZED:  
 (GUIDE #JDYX2, FILE #E75865)

**Limits for Pre-arcing Time**

In	1.5 In		2.1 In		2.75 In		4 In		10 In	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
32mA - 100mA	60 min.	2 min.	200 ms.	10 sec.	40 ms.	3 sec.	10 ms.	300 ms.		
125mA - 6.3A	60 min.	2 min.	600 ms.	10 sec.	150 ms.	3 sec.	20 ms.	300 ms.		
8A - 12.5A	30 min.	5 min.	600 ms.	10 sec.	150 ms.	3 sec.	20 ms.	300 ms.		

**Packaging & Ordering Information:**

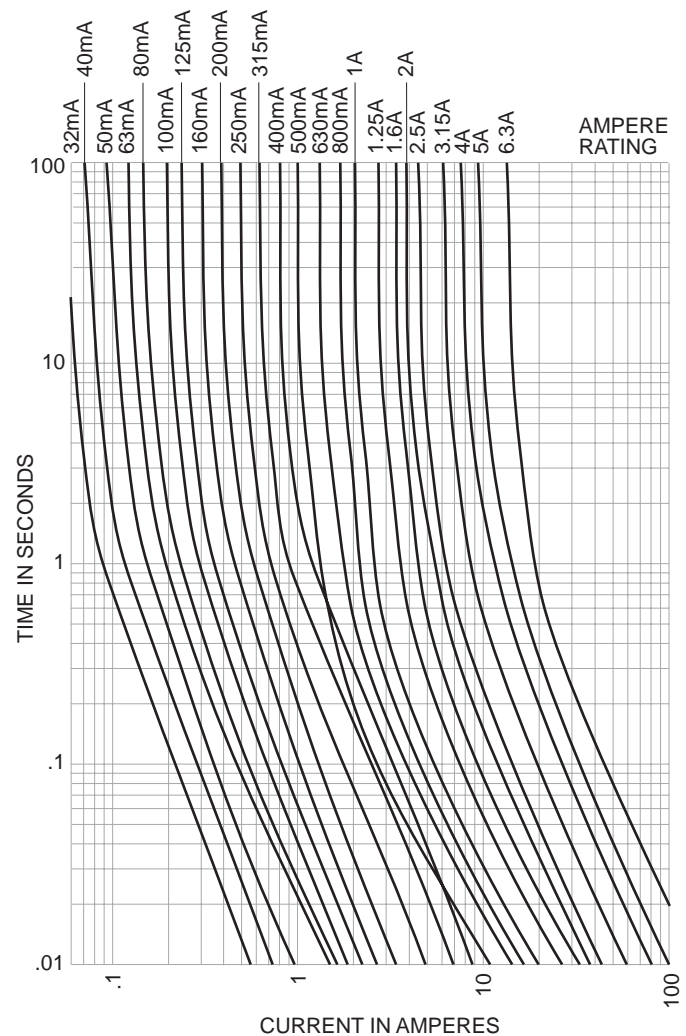
<b>Product Symbol</b>		<b>Lead</b>		<b>Ampere Rating</b>
GDC S506†		<b>Package Code</b> Blank (None) V Axial Leads .032" x 1.5" Copper Tinned		

**Markings:** MFG mark, Rated Current, Rated Voltage, Characteristic Symbol, Breaking Capacity Symbol, Approvals where Applicable.

†S506 is a European designation. In North America, use GDC respectively when referencing product, except 8, 10 and 12.5A.

CE logo denotes compliance with European Union Low Voltage Directive (50-1000 VAC, 75-1500 VDC). Refer to BIF document #8002 or contact Bussmann Application Engineering at 314-527-1270 for more information.

**Time-Current Characteristic Curves—Average Melt**



# 5 x 20mm Ferrule Fuses

## Time-Delay, Low Breaking Capacity

GDC  
GDC-V

### Electrical Characteristics

Current Rating (In)	Rated Voltage (V)	Breaking Capacity	Voltage Drop (mV) max.	Power Dissipation (W) max.	Pre-arcing Value (I <sup>2</sup> t) (A <sup>2</sup> s) typ.	BSI	VDE	SEMKO	IMQ	UR
32mA	250	35A at 250V, 50Hz cos φ ≈ 1.0	1050	0.14	0.0014	•	•	•	•	•
40mA			920	0.16	0.0034	•	•	•	•	•
50mA			800	0.16	0.006	•	•	•	•	•
63mA			760	0.16	0.012	•	•	•	•	•
80mA			580	0.17	0.015	•	•	•	•	•
100mA			490	0.17	0.022	•	•	•	•	•
125mA			390	0.18	0.034	•	•	•	•	•
160mA			320	0.20	0.052	•	•	•	•	•
200mA			340	0.32	0.078	•	•	•	•	•
250mA			270	0.32	0.17	•	•	•	•	•
315mA			250	0.32	0.41	•	•	•	•	•
400mA			210	0.32	0.61	•	•	•	•	•
500mA			168	0.25	0.75	•	•	•	•	•
630mA			158	0.31	1.3	•	•	•	•	•
800mA			132	0.34	3.1	•	•	•	•	•
1A			85	0.22	3.6	•	•	•	•	•
1.25A			80	0.28	7	•	•	•	•	•
1.6A			80	0.34	10	•	•	•	•	•
2A			80	0.42	17	•	•	•	•	•
2.5A			80	0.54	34	•	•	•	•	•
3.15A			75	0.67	56	•	•	•	•	•
4A			75	0.90	91	•	•	•	•	•
5A			75	1.15	133	•	•	•	•	•
6.3A			65	1.3	270	•	•	•	•	•
8A* **			75	—	550	—	—	—	—	—
10A* **	55	—	917	—	—	—	—	—		
12.5A* **	60	—	852	—	—	—	—	—		

\*IEC Standard 127 Sheet III does not include ratings above 6.3A.

\*\*Product is available only as S506 series.

The only controlled copy of this BIF document is the electronic read-only version located on the Bussmann Network Drive. All other copies of this BIF document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.