General Information

Sub-miniature Fuses

G-Fuse Links

G-Fuse Holders and Fuse Bases

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RoHS

General Product Information

Article Number	Page	RoHS	Dimensions [mm]	Rated Voltage	Charac-teristics	Rated Breaking Current	Standard or Description
151000	582	◆	1.00 x 0.5	$32V_{DC}$	FF	50A	UL 248-14
152000	583	◆	1.55 x 0.85	$32V_{DC}$	FF	50A	UL 248-14, IEC 60127- 4
153000	584	◆	2.00 x 1.25	$32V_{DC}$	FF	50A	UL 248-14, IEC 60127- 4
154000	585	◆	3.20 x 1.6	$63V_{DC}$	FF	50A	UL 248-14, IEC 60127- 4
157000	586	◆	2.60 x 6.1	$125V_{AC/DC}$	F	$50A_{AC/DC}$	UL 248-14, CSA C22.s No 248.14
158000	587	◆		$125V_{AC/DC}$	T	$50A_{AC/DC}$	UL 248-14, CSA C22.s No 248.14
160000	588	◆	4.5 x 8.0	$250V_{AC}$	T	100A	IEC 60127
161000	589	◆	4.5 x 8.0	$250V_{AC}$	F	100A	IEC 60127-4
160016	590	◆	4.5 x 16	$305V_{AC}$	T	1.5kA	UL 248-14, IEC 60127-4/2
163016	591	◆	4.5 x 16	$250V_{AC}$	TT	135A	IEC 60127-4
164000 164050	592	◆	8.4 x 7.6	$250V_{AC}$	F	$(35A / 10xI_{Rat})$	IEC 60127-3/3, EN 60127-3/3, VDE 0820-3/3
164500 164550	593	◆	8.4 x 7.6	$250V_{AC}$	F	50A	UL 248-14, CSA C22.s No 248.14
165000 165050	594	◆	8.4 x 7.6	$250V_{AC}$	M	$(35A / 10xI_{Rat})$	IEC 60127-3
166000 166050	595	◆	8.4 x 7.6	$250V_{AC}$	T	$(35A / 10xI_{Rat})$	IEC 60127-3/4, EN 60127-3/4, VDE 0820-3/4
166500 166550	596	◆	8.4 x 7.6	$250V_{AC}$	T	50A	UL 248-14, CSA C22.s No 248.14
196000	597	◆	2.3 x 8	$125V_{AC/DC}$	F	$300A_{DC}/50A_{AC}$	UL 248-14
70 001 40	598	◆	5 x 20	$250V_{AC}$	FF	300kA/1.5kA	Special Type
70 007 40	599	◆	5 x 20	$400V_{AC}$	FF	10kA/300kA	Special Type
70 180 40	600	◆	5 x 20	$660V_{AC}$	aR(FF)	$100kA_{AC/DC}$	Special Type
179020	601	◆	5 x 20	$250V_{AC}$	F	$(35A / 10xI_{Rat})$	IEC 60127-2/2, EN 60127-2/2, VDE 0820-2/2
179021	602	◆	5 x 20	$250V_{AC}$	F	1.5kA/1kA	IEC 60127-2/1, EN 60127-2/1, VDE 0820-2/1
171100	603	◆	5 x 20	$250V_{AC}$	F	1kA/300A	DIN 41571-1
172000	604	◆	5 x 20	$250V_{AC}$	M	80A	DIN 41571-2
172100						1kA/300A	
172200	605	◆	5 x 20	$250V_{AC}$	M	1.5kA	DIN 41571-2
179120	606	◆	5 x 20	$250V_{AC}$	T	$(35A / 10xI_{Rat})$	IEC 60127-2/3, EN 60127-2/3, VDE 0820-2/3
179150	607	◆	5 x 20	$250V_{AC}$	T	150A	IEC 60127-2/6, EN 60127-2/6, VDE 0820-2/6
179200	608	◆	5 x 20	$250V_{AC}/300V_{DC}$	T	$1.5kA_{AC/DC}$	IEC 60127-2/6, EN 60127-2/6, VDE 0820-2/6
179200SMD	609	◆	5 x 20	$250V_{AC}$	T	1.5kA	IEC 60127-2/5, EN 60127-2/5, VDE 0820-2/5
173100	610	◆	5 x 20	$250V_{AC}$	T	300A	DIN 41571-3
179500	611	◆	5 x 20	$250V_{AC}$	T/D	35A/100A	UL 248-14, CSA C22.s No 248.14
190000	612	◆	5 x 20	$250V_{AC}$	TT	$(35A / 10xI_{Rat})$	Special Type
171525	613	◆	5 x 25	$250V_{AC}$	F	50A/80A	Special Type
172525					M		
7001908	614	◆	10 x 51	$60V_{AC}$		1.5kA	DIN 41572
171526	615	◆	5 x 25	$250V_{AC}$	F	1.5kA	DIN 41576-1
172526	616	◆	5 x 25	$250V_{AC}$	M	80A/1.5kA	DIN 41576-2
7008913	617	◆	5 x 25	$450V_{AC}/250V_{DC}$	F	$70kA_{AC}/10kA_{DC}$	Lloyds Approved
7001607	618	◆	5 x 25	$250V_{AC}$	M	80A/1.5kA	DIN 41577T,2
7001707			5 x 25				
7001407			5 x 20				
7001205			5 x 20				

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171530	619		5 x 30	500V_{AC}	F	50A/80A	Special Type
172530					M		
7012540	620		6.3 x 32	700V_{AC}/500V_{AC}	FF	80A/1.5kA	Special Type
7017240	621		6.3 x 32	1000$V_{AC/DC}$	aR(FF)	30k$A_{AC/DC}$	Short circuit protection only
7006584	622		6.3 x 32	400V_{AC}	gRL	120kA	IEC 60269-4, VDE 0636 Tail 4
189000	623		6.3 x 32	250V_{AC}	F	(35A / 10xI_{Rat})	IEC 60269-2/4
189020	624		6.3 x 32	500V_{AC}/440V_{DC}	F	50kA/1.5kA	Special Type
7009463	625		6.3 x 32	600V_{AC}	F	50kA	Special Type
189100	626		6.3 x 32	250V_{AC}	T	(35A / 10xI_{Rat})	Special Type
189140	627		6.3 x 32	500V_{AC} - 250V_{AC}	T	1.5kA/10kA	Special Type
189500	628		6.3 x 32	250V_{AC}/125V_{AC}	T/D	100A/10kA	
7006526	629		6.3 x 32	400V_{DC}	gPV	30kA	Following IEC 60269-4
183000	630		8 x 40	500V_{AC}	F	80A/1.5kA	DIN 41686
184000	631		8 x 50	1.2kV_{AC}	M	35A	DIN 41570
7103401			8 x 50	1.2kV_{AC}			Fuse Base
185000			8 x 85	3kV_{AC}	F	35A	DIN 41569
7103701			8 x 85	3kV_{AC}			Fuse Base
186000	632		8 x 120	6kV_{AC}	M/F	35A	DIN 41683
7104001			8 x 120	6kV_{AC}			Fuse Base
187000			8 x 150	10kV_{AC}		35A	DIN 41684
7104301			8 x 150	10kV_{AC}			Fuse Base
7011509	633		10 x 85	3kV_{AC}	F		Company
7011527			10 x 85	1.5kV_{AC}/1kV_{DC}	T		Company
7011552			10 x 85	1.5kV_{AC}/1kV_{DC}	F		Company
7012927			11 x 79	1kV_{AC}	T		Company
7012952			11 x 79	1kV_{AC}	F		Company
7017182			10 x 85	1kV_{AC}	aM		Company
7002924			12 x 100	3kV_{AC}	F		Company
7002927			12 x 100	3kV_{AC}	T		Company
7003024			12 x 150	6kV_{AC}	F		Company
7003124			12 x 200	10kV_{AC}	F		Company
7103702	633		10 x 85	3kV_{AC}			Fuse Holder, 6.3A, 4W
7102901	633		12 x 100	3kV_{AC}			Fuse Base, 6.3A, 4W
7103001			12 x 150	6kV_{AC}			Fuse Base, 4A 4W
7103101			12 x 200	10kV_{AC}			Fuse Base, 2A 4W
166602	634		8.4 x 7.6	250V_{AC}			Fuse base PCB for 8.4 x7.6 subminiature fuse, 6.3A
199073	634		Ø 5mm				Fuse Clips PCB for Ø 5mm, 6.3A
199207							
199487							
199429			Ø 6.3mm				Fuse Clips PCB for Ø 6.3mm, 10A
199011	634		5 x 20	250V_{AC}/300V_{DC}			Fuse base SMD, 6.3A
199012							Fuse base cover
199015	635		5 x 20	250V_{AC}			Fuse base PCB, 6.3A
199015A							
199016							Fuse base cover
199018	635		5 x 20	250V_{AC}			Fuse base PCB, 6.3a
199019							Fuse base cover
199060	635		5 x 20	250V_{AC}			Fuse base PCB, 6.3a

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199030	636	◆	5 x 20	250V_{AC}	6.3A	Fuse holder panel mount, screw cap, 2.8mm plug or solder
199035		◆	5 x 20	250V_{AC}	6.3A	Fuse holder panel mount, screw cap, 2.8mm plug or solder
199040		◆	5 x 20	250V_{AC}	6.3A	Fuse holder panel mount, screw cap, 2.8mm plug or solder
199045			5 x 20	250V_{AC}	6.3A	Fuse holder PCB vertical, bayonet cap
199050		◆	5 x 20	250V_{AC}	6.3A	Fuse holder PCB horizontal, bayonet cap
199055		◆	5 x 20	250V_{AC}	6.3A	Fuse holder panel mount, bayonet cap, solder
199070	637	◆	5 x 20	250V_{AC}	6.3A	Fuse holder panel mount, bayonet cap,4.8mm plug or solder
199090		◆	5 x 20	250V_{AC}	6.3A VDE/10A UL	Fuse holder panel mount, bayonet cap, solder
199080		◆	5x20/6.3x32	250V_{AC}	6.3A	Fuse holder inline
199511	638	◆	5x20/6.3x32	250V_{AC}	10A VDE/16A UL	Fuse base SMD
199537		◆	5x20/6.3x32	500V_{AC}/250V_{AC}	10A VDE/16A UL	Fuse base PCB
199530	639	◆	6.3x32	500V_{AC}/250V_{AC}	10A VDE/20A UL	Fuse holder panel mount, w/o cap, 6.3mm plug or solder
199531						Fuse carrier bayonet cap
199550	639	◆	6.3x32	500V_{AC}/250V_{AC}	16A VDE/30A UL	Fuse holder PCB mount, w/o cap
199552						Fuse carrier screw cap for fuse holder
199555	640	◆	6.3x32	500V_{AC}/250V_{AC}	16A VDE/30A UL	Fuse holder panel mount, w/o cap, 6.3mm plug
199552						Fuse carrier screw cap for fuse holder
7100127	640	◆	6.3x32	250V_{AC}	10A VDE/16A UL	Fuse holder PCB mount horizontal w/ bayonet carrier
7100128	640	◆	6.3x32	250V_{AC}	10A VDE/16A UL	Fuse holder PCB mount vertical w/ bayonet carrier
7100129	641	◆	6.3x32	250V_{AC}	10A VDE/16A UL	Fuse holder panel mount w/ bayonet carrier, solder
199052	641	◆	6.3x32	250V_{AC}	10A VDE/16A UL	Fuse holder panel mount w/ screw carrier, solder
204000	642	◆	Ø 5mm		6.3A max	Press on lead end cap PCB, lead Ø 0.65mm
204001					10A max	Press on lead end cap PCB, lead Ø 0.8mm
204002					16A max	Press on lead end cap PCB, lead Ø 1.0mm
204100	642	◆	Ø 6.3mm		12.5A max	Press on lead end cap PCB, lead Ø 0.8mm
204101					20A max	Press on lead end cap PCB, lead Ø 1.0mm
199022	642	◆	6.3x32	250V_{AC}	10A max	Fuse base PCB
7100114	643	◆	5x20/6.3x32	250V_{AC}	10A VDE/16A UL	Fuse holder PCB horizontal mount w/ bayonet
7100116			5x20/6.3x32	250V_{AC}	10A VDE/16A UL	Fuse holder PCB vertical mount w/o bayonet
7100123			5x20/6.3x32	250V_{AC}	10A VDE/10A UL	Fuse holder panel mount w/ out carrier, solder
7100124			5x20/6.3x32	250V_{AC}	10A VDE/20A UL	Fuse holder panel mount w/o bayonet carrier, solder
7200108			5x20			Fuse carrier bayonet for 5x20
7200109			6.3x32			Fuse carrier bayonet for 6.3x32

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Technical Notes

1 Introduction

Miniature fuses are automatic switchgears that protect electrical plants, appliances and modules from inadmissibly high current loads . They have various applications. Miniature fuses are used in consumer electronics for safeguarding power supplies and power output amplifiers. They are often used in industrial applications as primary fuses, where in the event of a fault they separate the defective module from the voltage supply in order to forestall any greater damage. Fuse-links for direct mounting on printed circuit boards are used among other things for the secondary current supply in low power devices. In the event of a fault they serve to protect components and PCB traces that might be destroyed by excessive current loads.

2 Designs

The traditional miniature fuse is cylindrical in shape, with a diameter of 5mm and a length of 20mm. There is also a design used internationally which has the dimensions 6.3 x 32mm. Depending on their rating, these fuses, whose characteristic might be very quick acting to long time-lag, can switch off short circuit currents of up to several kiloamperes at mains voltages of up to 1 000 V.

Sub-miniature fuses (KS) are used for through hole assembly on printed circuit boards. Whether their characteristic is quick acting or time-lag, these fuses with a rated voltage of 250 V are used in primary circuits for protecting mains transformers and in secondary circuits for selective protection of the modules.

SMD fuses at rated voltages of up to 250 V are available for surface mounting on printed circuit boards. Their applications are similar to those of the sub-miniature fuses (KS) described above. As regards their breaking performance, they are also designed with th special requirements of the telecom industry in mind.

3 Terminology

Miniature fuses consist of the fuse-link and the fuse holder. The fuse link contains the fuse-element and must, after the latter has melted, be replaced by a new fuse-link. The fuse-element can continuously carry the rated current under given conditions. When the rated current has been exceeded, the fuse-element melts above a value prescribed by the standards, and the electrical circuit is broken The duration of the melting process is prescribed in the relevant standards.

The fuse-link is inserted into a fuse-holder. The latter consists of the fuse base (mount) and the (screw or bayonet) fuse carrier. The fuse base is firmly mounted in the device to be protected and provides the electrical connection. The fuse carrier receives the fuse link, allowing easy replacement. Open fuse holders and clips are often used besides such 'enclosed' fuse holders.

3.1 Rated voltage (nominal voltage) U_{rat}

The rated voltage of a fuse link is given as the r.m.s. value of a sinusoidal alternating voltage at 50 Hz. All the test conditions are laid down in accordance with it. The voltage U_b driving the short circuit current must not be greater than the rated voltage.

$$U_{rat} \geq U_b$$

Operation at direct voltage is possible if the rated voltage is reduced; we will be glad to advise you on this matter if you provide us with the maximum fault current and the time constants of the fault current circuit.

3.2 Rated Current I_{rat}

The rated current given is the r.m.s. value. Under prescribed conditions, the fuse-link can operate permanently at the rated current level. Ambient conditions, cyclic currents and special assembly conditions can lead to a de-rating of the rated current. The I_b operating current must not be greater than the rated current during normal operation.

$$I_{rat} \geq I_b$$

3.3 Rated Breaking Capacity I_1 at Urat

The rated breaking capacity characterizes the maximum current I_1 that the fuse-link can properly switch off at the rated voltage. In certain applications it may be necessary to reduce the expected short-circuit current by means of additional impedances in the electri circuit.

$$I_1 \geq I_p$$

3.4 Voltage Drop ΔU

The voltage drop is determined with the fuse-link in operation at its rated current and at an ambient temperature of 23 °C.

3.5 Pre-arcing integral I^2t_S

The pre-arcing integral is calculated by integrating the square of the current over the pre-arcing time. The value indicates the electrical load that leads to the melting of the fuse-element. The value for the pre-arcing integral is determined at a test current of 10 Ir and is as a typical value.

3.6 Operating integral I^2t_A

The operating integral is calculated by integrating the square of the current over the total operating time of the fuse link. The value is a measure of the load on the downstream components during breaking operation of the fuse link in the event of a short circuit.

3.7 Power dissipation P_v

The Power dissipation of a fuse link is calculated by multiplying the conventional nonfusing current Inf by the voltage drop ΔU determined at this load after an hour.

4 Structure of miniature Fuse-Links

4.1 The glass tube

If the maximum expected short circuit current (prospective current Ip) is not greater than 35 A or max. 10 Irat, then a miniature fuse link with an unfilled glass tube is used. This fuse-link has the advantage of a relatively low voltage drop.

4.2 The reinforced glass tube

Miniature fuse-links with reinforced unfilled glass tubes can switch off prospective currents of up to 150 A at the rated voltage.

4.3 The filled glass tube

Prospective currents of up to 1 000 A can be switched off at the rated voltage by a combination of quartz sand filling as extinguis filler and reinforcement of the glass tube.

4.4 The filled ceramic tube

A further increase in the rated breaking capacity up to a prospective current of several kA is achieved by the use of ceramic tube filled with quartz sand.

4.5 The terminal caps

A copper alloy is usually used as working material for the terminal caps. The caps are plated by means of a special surface treatment to provide better electrical and thermal contact, as well as for protection against corrosion.

5 Characteristics

The characteristic is an expression for the time-current performance of the fuse-links.

FF	Very quick acting	Short circuit protection for semiconductor components (diodes, thyristors, triacs, transistors, MCT, etc.)
gRL	Very quick acting	Full range protection of semiconductors and their supply lines
gPV		For protection of photovoltaic systems
F	Quick acting	Protection against high overload and short circuit currents, fuses are used in electrical circuit without inrush current pulse, or as mains fuses
M	Medium time lag	Used primarily at low operating voltages, if no high inrush currents have to be taken into account.
T	Time lag	For high inrush currents have slow decaying transients(e.g. transformers).
TT	Long time lag	For very high and long lasting inrush currents(e.g. motors)

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6 Standards

Besides several specific national standards, the principal standard applied worldwide is IEC 60127. It is divided into one general part, parts dealing with the individual fuse designs, one part for fuse holders, one specification for quality confirmation as well as one user's manual. The German-language equivalent of this International Standard is VDE 0820.

In the North American countries, the reference standard for miniature fuses is UL 248. Special care is required in converting the rated currents of IEC 60127 into those according to UL 248 (see figure 1).

7 Applications

7.1 Different definitions of the Rated Currents in the International Standards

In principle, two different ratings of the continuous current must be taken into account, preventing direct conversion of the fuse links according to IEC 60127 and UL 248-14.

a) Continuous current rating according to IEC 60127

$$I_{rat} \geq I_b$$

b) Continuous current rating according to UL 248-14

$$I_{rat} \geq I_b / 0{,}7$$

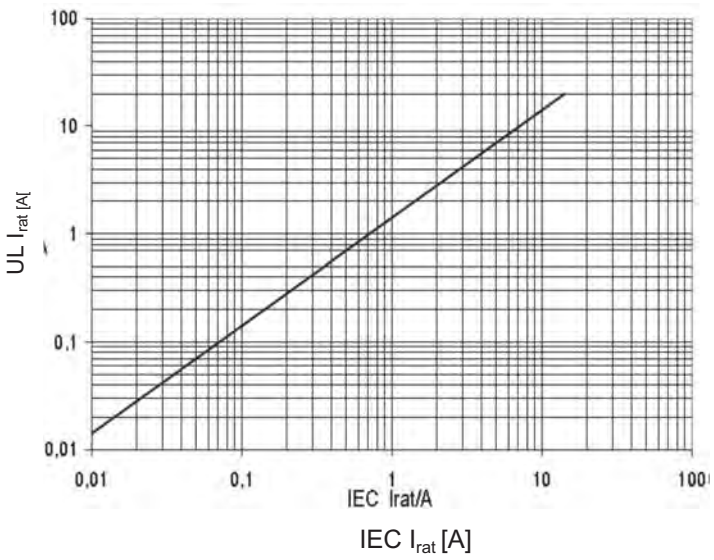

Figure 1

Figure 1 enables approximate conversion of rated current between UL and IEC standards

7.2 Operation at extra-Low-Voltage $U_b << U_{rat}$

Fuse-links can operate without difficulty at voltages below their rated voltage. The voltage drop of the fuse-links (internal resistance) must be taken into consideration, particularly at very low rated currents.

7.3 Operation at raised ambient temperatures

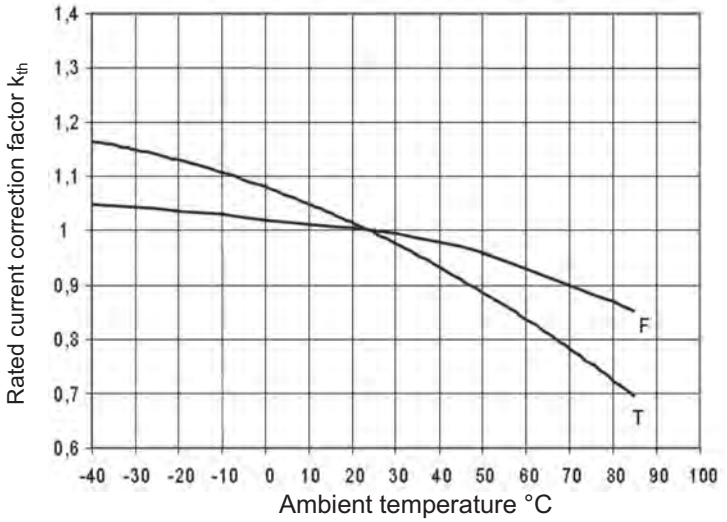

Figure 2

The shift in the rated current at various ambient temperatures can be determined with reference to Figure 2.

7.4 Pulse loads

If pulse loads arise in an electrical circuit to be protected, then that must be taken into consideration when assigning a fuse link, particularly the latter's pre-arcing integral I^2ts. Reduction factors can be provided on the basis of extensive series of in house tests relating to pulse amplitude, pulse duration and frequency of occurrence.

7.5 Protection of semiconductor components

When protecting power electronics components, the I^2t value of the fuse-link is adjusted to the energy pulse (or I^2t value) of the component to be protected.

7.6 Power acceptance of the miniature Fuse Holder

The maximum power acceptance of the fuse holder must not be exceeded by the Power dissipation of the fuse link selected. Contact resistances and assembly conditions shall additionally be taken into account here.

8 Safety through Quality

In order to ensure compliance with the quality requirements, SIBA practices the documented quality management system (QM system) on the basis of the International Standard DIN EN ISO 9001. The environmental management system according to DIN EN ISO 14001 regulates the planning, implementation and supervision of environmental protection in the company.

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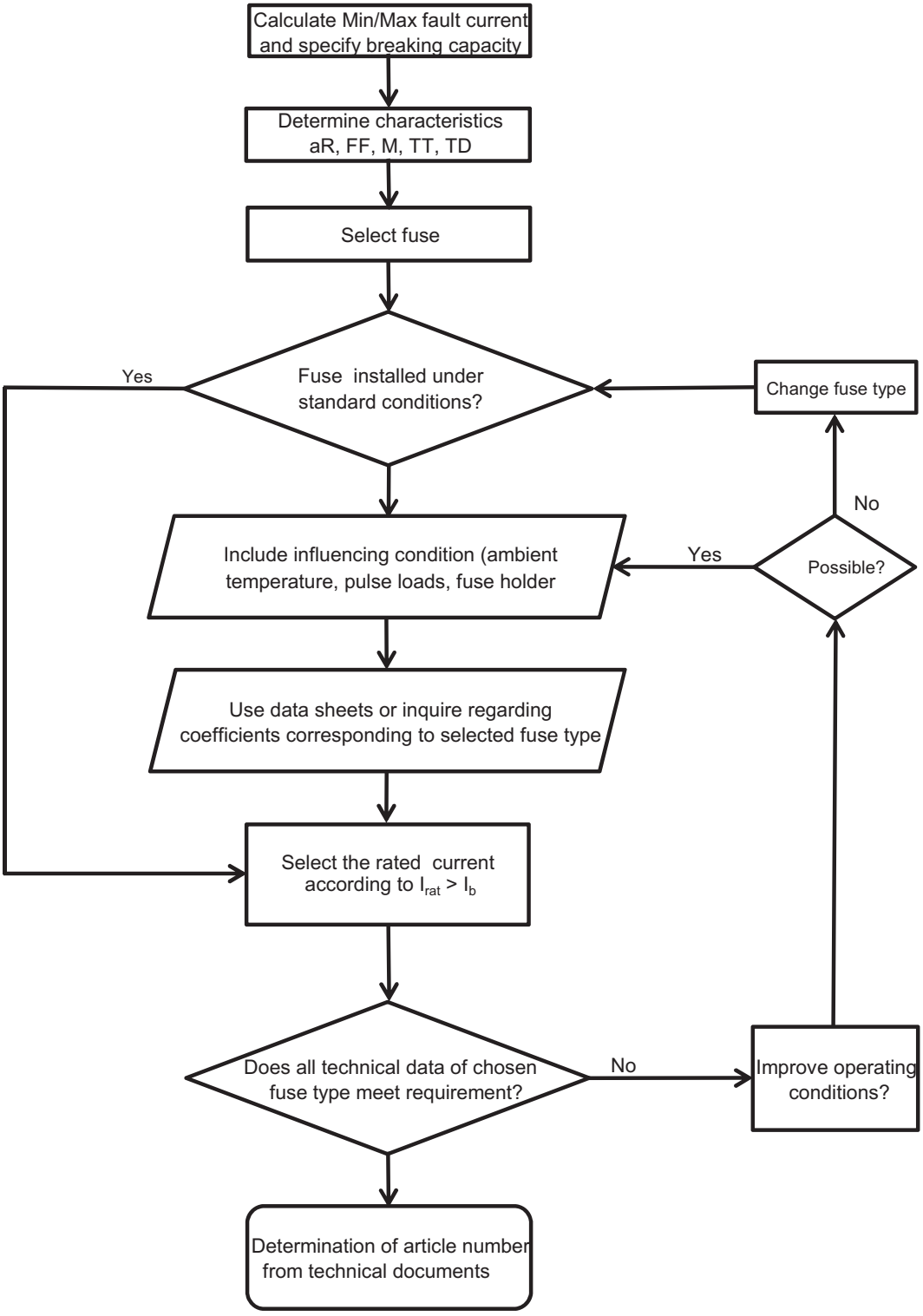
9 Selection diagram



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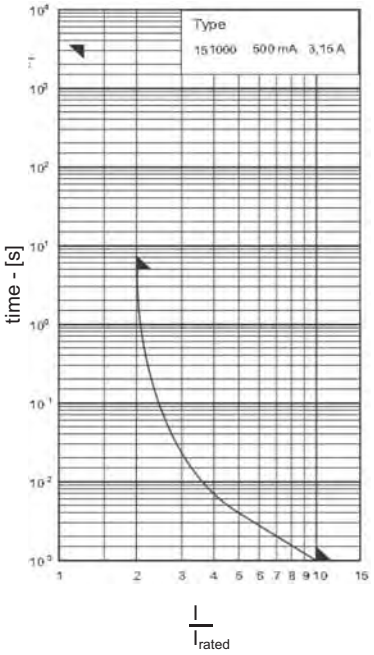
RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$32V_{DC}$	$32V_{DC}$	50A	FF	UL 248-14 IEC 60068-2-6 IEC 60127-4

042(1mmx0.5mm) - Ceramic Substrate -Printed Element

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Cold Resistance [mΩ]	Pre-arcing I^2t @ $10I_n$ [A^2s]	Approvals	Marking
0.500	151000.0.500	✓	50A @ $32V_{DC}$	420	640	0.0009		
0.630	151000.0.630	✓	50A @ $32V_{DC}$	331	400	0.0014		
0.750	151000.0.750	✓	50A @ $32V_{DC}$	275	280	0.0020		
0.800	151000.0.800	✓	50A @ $32V_{DC}$	231	220	0.0023		
1	151000.1	✓	50A @ $32V_{DC}$	184	140	0.0028		
1.25	151000.1.25	✓	50A @ $32V_{DC}$	159	97	0.0039		
1.5	151000.1.5	✓	50A @ $32V_{DC}$	146	74	0.0059		
1.6	151000.1.6	✓	50A @ $32V_{DC}$	136	65	0.0065		
1.75	151000.1.75	✓	50A @ $32V_{DC}$	124	54	0.0077		
2	151000.2	✓	50A @ $32V_{DC}$	115	44	0.0101		
2.5	151000.2.5		50A @ $32V_{DC}$	107	33	0.0157		
3	151000.3		50A @ $32V_{DC}$	95	24	0.0227		
3.15	151000.3.15		50A @ $32V_{DC}$	90	22	0.0250		

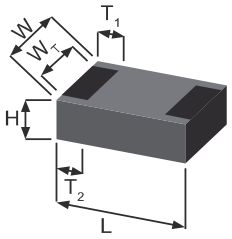
Time-Current Characteristics



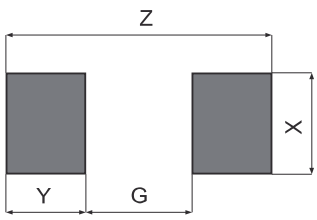
Tape reel ordering, add following suffix to article number

GT-1k (1 000 pieces on tape reel)
GT-5k (5 000 pieces on tape reel)
GT-10k (10 000 pieces on tape reel)
e.g. 151000.0.750GT-5k

	Fusing Time Limits									
Rated Current	$1.25I_n$		$2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
500mA - 3A	1h	—	—	1s	—	—	—	—	—	1ms



	Dimensions [mm]
H	0.32 ± 0.05
L	1.0 ± 0.05
W	0.5 ± 0.05
W_T	> 75% of W
T_1	0.2+0.1/-0.15
T_2	0.2 ± 0.1



Reflow	Solder Pad Dimensions [mm]	wave
0.25	G	
0.55	X	
0.6	Y	
1.45	Z	

Resistance to soldering heat, 260°C, 10s, solder bath
(to IEC 60068-2 -58) 260°C, 10s, reflow

Vibration IEC - 60068-2-6

Insulation resistance - IEC 60127-4

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GSS	Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
E167295	$32V_{DC}$	$32V_{DC}$	50A	FF	UL 248-14 IEC 60068-2-6 IEC 60127-4

063(1.55mmx0.85mm) - Ceramic Substrate -Printed Element

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Cold Resistance [mΩ]	Pre-arcing I^2t @ $10I_n$ [A^2s]	Approvals V - VDE	Marking
0.500	152000.0.500	✓	50A @ $32V_{DC}$ [1]	361	550	0.0009	V	F
0.630	152000.0.630	✓	50A @ $32V_{DC}$	331	400	0.0014		CT
0.750	152000.0.750	✓	50A @ $32V_{DC}$	258	262	0.0020		G
0.800	152000.0.800	✓	50A @ $32V_{DC}$	249	237	0.0023		CV
1	152000.1	✓	50A @ $32V_{DC}$ [1]	223	170	0.0028	V	H
1.25	152000.1.25	✓	50A @ $32V_{DC}$	180	110	0.0039		J
1.5	152000.1.5	✓	50A @ $32V_{DC}$	155	79	0.0059		K
1.6	152000.1.6	✓	50A @ $32V_{DC}$ [1]	159	76	0.0065	V	EF
1.75	152000.1.75	✓	50A @ $32V_{DC}$	138	60	0.0077		L
2	152000.2	✓	50A @ $32V_{DC}$ [1]	150	57	0.0101	V	N
2.5	152000.2.5	✓	50A @ $32V_{DC}$	151	37	0.0157		O
3	152000.3	✓	50A @ $32V_{DC}$	126	32	0.0227		P
3.15	152000.3.15	✓	50A @ $32V_{DC}$ [1]	120	29	0.0250	V	EL
3.5	152000.3.5	✓	50A @ $32V_{DC}$	106	23	0.0308		R
4	152000.4	✓	50A @ $32V_{DC}$	100	19	0.0403		S
5	152000.5		50A @ $32V_{DC}$	85	13	0.228		T

[1] 50A @ $50V_{DC}$ with VDE approval

Tape reel ordering, add following suffix to article number

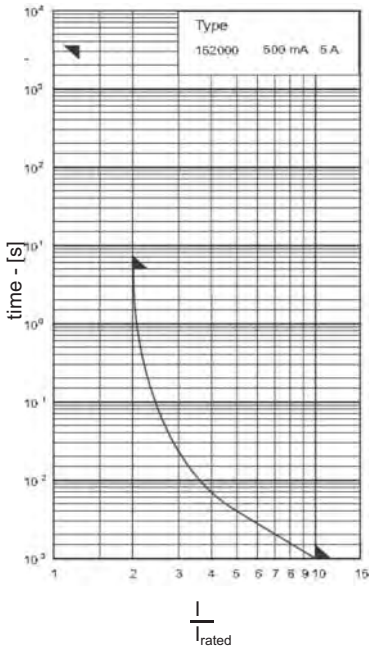
GT-1k (1 000 pieces on tape reel)

GT-5k (5 000 pieces on tape reel)

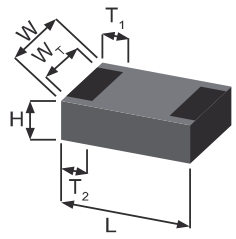
GT-20k (20 000 pieces on tape reel)

e.g. 152000.3.15GT-5k

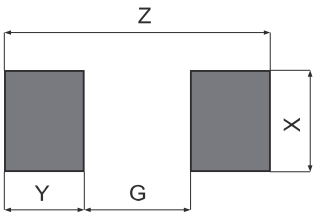
Time-Current Characteristics



	Fusing Time Limits									
Rated Current	$1.25I_n$		$2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
500mA - 3A	1h	—	—	5s	—	—	—	—	—	1ms



	Dimensions [mm]
H	0.45+01/-0.05
L	1.55 ± 0.05
W	0.85 ± 0.1
W_T	> 75% of W
T_1	0.3+0.15/-0.2
T_2	0.3+0.15/-0.2



Reflow	Solder Pad Dimensions [mm]		wave
0.5	G		0.5
0.95	X		1.1
0.95	Y		1.2
2.4	Z		2.9

Resistance to soldering heat, 260°C, 10s, solder bath
(to IEC 60068-2 -58) 260°C, 10s, reflow

Vibration IEC - 60068-2-6

Insulation resistance - IEC 60127-4

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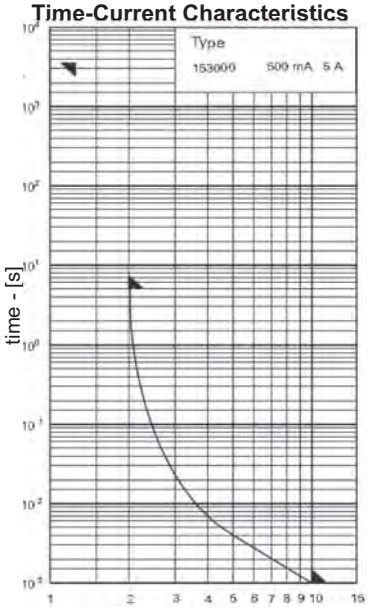
RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$32V_{DC}$	$32V_{DC}$	50A	FF	UL 248-14 IEC 60068-2-6 IEC 60127-4

085(2mmx1.25mm) - Ceramic Substrate -Printed Element

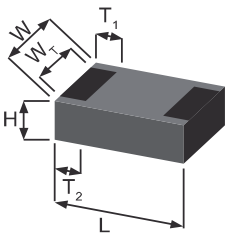
Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Cold Resistance [mΩ]	Pre-arcing I^2t @ $10I_n$ [A^2s]	Approvals	Marking
0.500	153000.0.500	✓	50A @ $32V_{DC}$	374	570	0.0009		F
0.630	153000.0.630	✓	50A @ $32V_{DC}$	347	420	0.0014		CT
0.750	153000.0.750	✓	50A @ $32V_{DC}$	280	285	0.0020		G
0.800	153000.0.800	✓	50A @ $32V_{DC}$	262	250	0.0023		CV
1	153000.1	✓	50A @ $32V_{DC}$	243	185	0.0028		H
1.25	153000.1.25	✓	50A @ $32V_{DC}$	205	125	0.0039		J
1.5	153000.1.5	✓	50A @ $32V_{DC}$	171	87	0.0059		K
1.6	153000.1.6	✓	50A @ $32V_{DC}$	164	78	0.0065		EF
1.75	153000.1.75	✓	50A @ $32V_{DC}$	161	70	0.0077		L
2	153000.2	✓	50A @ $32V_{DC}$	176	67	0.0101		N
2.5	153000.2.5	✓	50A @ $32V_{DC}$	131	40	0.0157		O
3	153000.3	✓	50A @ $32V_{DC}$	134	34	0.0227		P
3.15	153000.3.15	✓	50A @ $32V_{DC}$	128	31	0.0250		EL
3.5	153000.3.5	✓	50A @ $32V_{DC}$	119	26	0.0308		R
4	153000.4	✓	50A @ $32V_{DC}$	105	20	0.0403		S
5	153000.5		50A @ $32V_{DC}$	98	15	0.228		T

Time-Current Characteristics

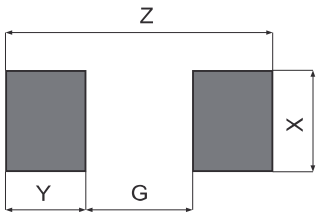


Tape reel ordering, add following suffix to article number
GT-1k (1 000 pieces on tape reel)
GT-5k (5 000 pieces on tape reel)
GT-20k (20 000 pieces on tape reel)
e.g. 153000.1.750GT-5k

	Fusing Time Limits									
Rated Current	$1.25I_n$		$2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
500mA - 3A	1h	—	—	5s	—	—	—	—	—	1ms



	Dimensions [mm]
H	0.45+01/-0.05
L	2.0 ± 0.1
W	1.25 ± 0.15
W_T	> 75% of W
T_1	0.4+0.1/-0.2
T_2	0.4+0.1/-0.2



Reflow	Solder Pad Dimensions [mm]		wave
0.65	G		0.65
1.4	X		1.5
1.1	Y		1.4
2.85	Z		3.45

Resistance to soldering heat, 260°C, 10s, solder bath
(to IEC 60068-2 -58) 260°C, 10s, reflow

Vibration IEC - 60068-2-6

Insulation resistance - IEC 60127-4

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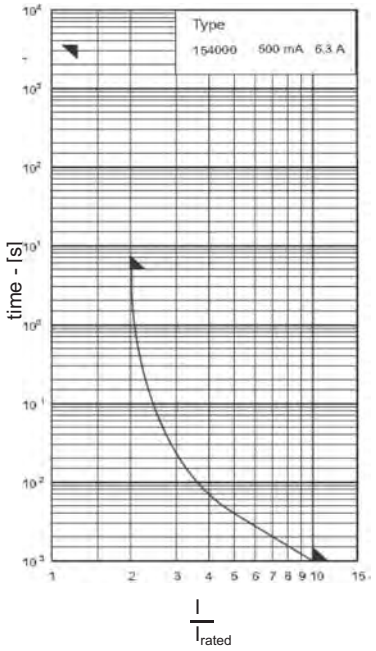
G	Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
E167295 RoHS	32V$_{DC}$	32V$_{DC}$	50A	FF	UL 248-14 IEC 60068-2-6 IEC 60127-4

1206(3.2mmx1.6mm) - Ceramic Substrate -Printed Element

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Cold Resistance [mΩ]	Pre-arcing I^2t @ 10I_n [A^{2}s]	Approvals V - VDE	Marking
0.250	154000.0.250	*	[1]	310	880	0.0001		
0.375	154000.0.375	*	[1]	260	470	0.0004		
0.500	154000.0.500	✓	50A @ 63V$_{DC}$ [2]	433	660	0.0009	V	F
0.630	154000.0.630	✓	50A @ 63V$_{DC}$	372	450	0.0014		CT
0.750	154000.0.750	✓	50A @ 63V$_{DC}$	325	330	0.0022		G
0.800	154000.0.800	✓	50A @ 63V$_{DC}$	273	260	0.0023		CV
1	154000.1	✓	50A @ 63V$_{DC}$ [2]	262	200	0.0028	V	H
1.25	154000.1.25	✓	50A @ 63V$_{DC}$	230	140	0.0041		J
1.5	154000.1.5	✓	50A @ 63V$_{DC}$	207	105	0.0059		K
1.6	154000.1.6	✓	50A @ 63V$_{DC}$ [2]	168	80	0.0066	V	EF
1.75	154000.1.75	✓	50A @ 63V$_{DC}$	174	76	0.0077		L
2	154000.2	✓	50A @ 63V$_{DC}$ [2]	181	69	0.0102	V	N
2.5	154000.2.5	✓	50A @ 63V$_{DC}$	161	49	0.0159		O
3	154000.3	✓	50A @ 63V$_{DC}$	173	44	0.0229		P
3.15	154000.3.15	✓	50A @ 63V$_{DC}$ [2]	153	37	0.0251	V	EL
3.5	154000.3.5	✓	50A @ 63V$_{DC}$	161	35	0.0310		R
4	154000.4	✓	50A @ 63V$_{DC}$	147	28	0.0404		S
5	152000.5		50A @ 63V$_{DC}$	131	20	0.228		T
6.3	154000.6.3		50A @ 63V$_{DC}$	116	14	0.516		ET

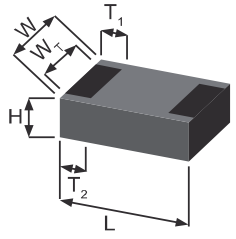
Time-Current Characteristics



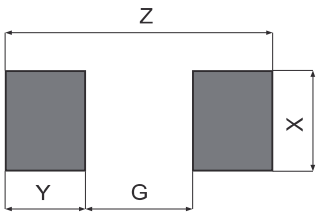
* UL listed [1] 50A @ 63V$_{DC}$, 100A @ 125V$_{AC}$ [2] 50A @50V$_{DC}$ with VDE approval

Tape reel ordering, add following suffix to article number
GT-1k (1 000 pieces on tape reel)
GT-5k (5 000 pieces on tape reel)
GT-20k (20 000 pieces on tape reel)
e.g. 154000.6.3GT-5k

	Fusing Time Limits									
Rated Current	1I_n		1.25I_n		2I_n		3I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
250mA - 375mA	1h	–	–	–	–	5s	–	200ms	–	–
500mA - 5A	1h	–	–	–	–	5s	–	–	–	1ms



	Dimensions [mm]
H	0.55 ± 0.1
L	3.2+0.1/-0.2
W	1.6 ± 0.15
W$_T$	> 75% of W
T$_1$	0.5 ± 0.25
T$_2$	0.3 ± 0.25



Reflow	Solder Pad Dimensions [mm]		wave
1.5		G	1.5
1.75		X	1.9
1.25		Y	1.6
4.0		Z	4.7

Resistance to soldering heat, 260°C, 10s, solder bath
(to IEC 60068-2 -58) 260°C, 10s, reflow

Vibration IEC - 60068-2-6

Insulation resistance - IEC 60127-4

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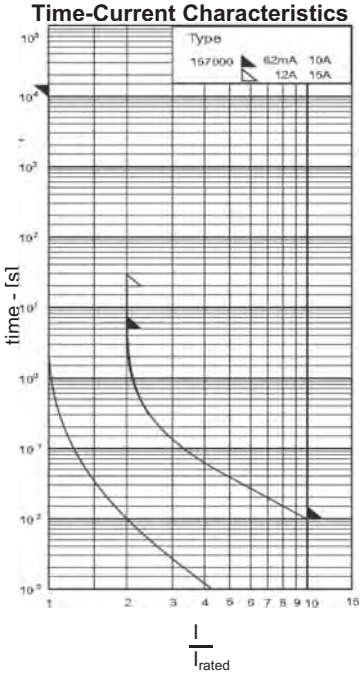
FUSES

GSS	Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
cULus E167295 RoHS	125/65$V_{AC/DC}$	125$V_{AC/DC}$	50A	F	UL 248-14
		65$V_{AC/DC}$	50A		CSA C22.s - No 248.14

2.6mmx6.1mm - Ceramic Body - Contacts, Brass - Silver Plated

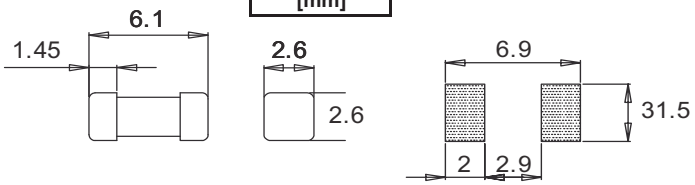
Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Cold Resistance [mΩ]	Pre-arcing I^2t @ 10I_n [A^2s]	Approvals	Marking
0.062	157000.0.062	✓	50A @ 125$V_{AC/DC}$	600	5 500	0.00019		
0.080	157000.0.080	✓	50A @ 125$V_{AC/DC}$	550	4 050	0.00033		
0.100	157000.0.100	✓	50A @ 125$V_{AC/DC}$	350	2 000	0.0014		
0.125	157000.0.125	✓	50A @ 125$V_{AC/DC}$	240	1 500	0.0028		
0.160	157000.0.160	✓	50A @ 125$V_{AC/DC}$	350	1 400	0.0031		
0.200	157000.0.200	✓	50A @ 125$V_{AC/DC}$	250	800	0.0066		
0.250	157000.0.250	✓	50A @ 125$V_{AC/DC}$	230	600	0.011		
0.315	157000.0.315	✓	50A @ 125$V_{AC/DC}$	210	420	0.023		
0.375	157000.0.375	✓	50A @ 125$V_{AC/DC}$	180	300	0.043		
0.400	157000.0.400	✓	50A @ 125$V_{AC/DC}$	180	290	0.048		
0.500	157000.0.500	✓	50A @ 125$V_{AC/DC}$	180	230	0.073		
0.630	157000.0.630	✓	50A @ 125$V_{AC/DC}$	180	190	0.12		
0.750	157000.0.750	✓	50A @ 125$V_{AC/DC}$	170	160	0.18		
0.800	157000.0.800	✓	50A @ 125$V_{AC/DC}$	160	130	0.26		
1	157000.1	✓	50A @ 125$V_{AC/DC}$	150	100	0.45		
1.25	157000.1.25	✓	50A @ 125$V_{AC/DC}$	150	78	0.68		
1.5	157000.1.5	✓	50A @ 125$V_{AC/DC}$	150	63	0.85		
1.6	157000.1.6	✓	50A @ 125$V_{AC/DC}$	140	58	1.05		
2	157000.2	✓	50A @ 125$V_{AC/DC}$	100	37	0.57		
2.5	157000.2.5	✓	50A @ 125$V_{AC/DC}$	100	28	1.1		
3	157000.3	✓	50A @ 125$V_{AC/DC}$	100	23	1.5		
3.15	157000.3.15	✓	50A @ 125$V_{AC/DC}$	100	21	1.9		
3.5	157000.3.5	✓	50A @ 125$V_{AC/DC}$	100	19	2.5		
4	157000.4	✓	50A @ 125$V_{AC/DC}$	100	16	3.3		
5	157000.5	✓	50A @ 125$V_{AC/DC}$	90	12.5	6.2		
6.3	157000.6.3	✓	50A @ 125$V_{AC/DC}$	90	10	9.1		
7	157000.7	✓	50A @ 125$V_{AC/DC}$	90	8.6	11		
10	157000.10	✓	50A @ 125$V_{AC/DC}$	90	5.9	27		
12	157000.12	✓	50A @ 125$V_{AC/DC}$	90	4.9	45		
15	157000.15	✓	50A @ 125$V_{AC/DC}$	90	3.8	81		

Time-Current Characteristics



Tape reel ordering, add following suffix to article number
GT - (1 000 pieces on tape reel)
e.g. 157000.3.15GT

Dimensions [mm]



Rated Current	Fusing Time Limits									
	1I_n		2I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
62mA - 10A	4h	–	–	5s	–	5s	–	–	–	10ms
12A - 15A	4h	–	–	20s	–	5s	–	–	–	10ms

Resistance to soldering heat, 260°C, 10s, to IEC 60068

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E167295

RoHS

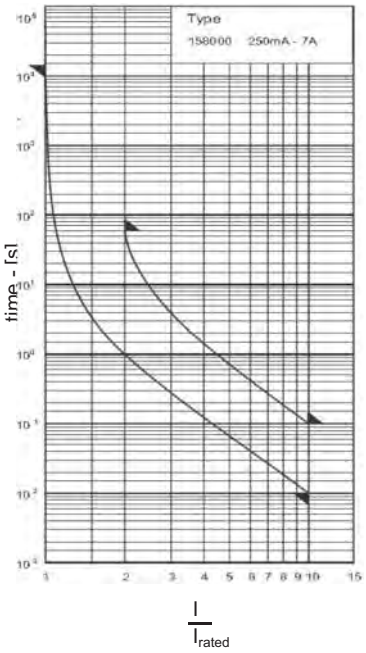
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$125V_{AC/DC}$	$125V_{AC/DC}$	50A	T	UL 248-14 CSA C22.s - No 248.14

2.6mmx6.1mm - Ceramic Body - Contacts, Brass - Silver Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Cold Resistance [mΩ]	Pre-arcing I^2t @ $10I_n$ [A^2s]	Approvals	Marking
0.250	158000.0.250	✓	50A @ $125V_{AC/DC}$	280	900	0.08		
0.315	158000.0.315	✓	50A @ $125V_{AC/DC}$	260	700	0.016		
0.375	158000.0.375	✓	50A @ $125V_{AC/DC}$ [1]	230	500	0.035		
0.400	158000.0.400	✓	50A @ $125V_{AC/DC}$ [1]	220	450	0.035		
0.500	158000.0.500	✓	50A @ $125V_{AC/DC}$ [1]	200	300	1.0		
0.630	158000.0.630	✓	50A @ $125V_{AC/DC}$ [1]	200	200	1.4		
0.750	158000.0.750	✓	50A @ $125V_{AC/DC}$ [1]	190	170	1.5		
0.800	158000.0.800	✓	50A @ $125V_{AC/DC}$ [1]	170	140	1.5		
1	158000.1	✓	50A @ $125V_{AC/DC}$ [1]	150	120	4.0		
1.25	158000.1.25	✓	50A @ $125V_{AC/DC}$ [1]	150	90	4.6		
1.5	158000.1.5	✓	50A @ $125V_{AC/DC}$ [1]	130	60	4.8		
1.6	158000.1.6	✓	50A @ $125V_{AC/DC}$ [1]	130	55	4.8		
2	158000.2	✓	50A @ $125V_{AC/DC}$ [1]	120	45	8.6		
2.5	158000.2.5	✓	50A @ $125V_{AC/DC}$ [1]	120	30	16		
3	158000.3	✓	50A @ $125V_{AC/DC}$ [1]	110	23	24		
3.15	158000.3.15	✓	50A @ $125V_{AC/DC}$ [1]	100	20	24		
3.5	158000.3.5	✓	50A @ $125V_{AC/DC}$ [1]	100	18	38		
4	158000.4	✓	50A @ $125V_{AC/DC}$ [1]	100	15	44		
5	158000.5	✓	50A @ $125V_{AC/DC}$ [1]	90	11	77		
6.3	158000.6.3	✓	50A @ $125V_{AC/DC}$ [1]	80	8	130		
7	158000.7		50A @ $125V_{AC/DC}$	90	8	130		

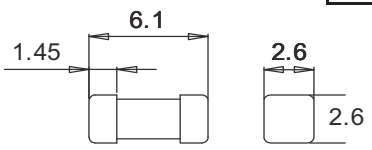
[1] 50A @ $125V_{AC}$ and 50A with UL recognition

Time-Current Characteristics

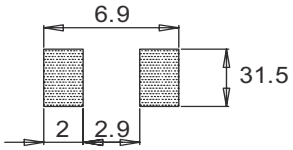


Tape reel ordering, add following suffix to article number
GT - (1 000 pieces on tape reel)
e.g. 158000.2.5GT

Dimensions [mm]



Recommended Pad Layout



Rated Current	Fusing Time Limits									
	$1I_n$		$2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
250mA - 7A	4h	—	—	60s	—	5s	—	—	10ms	100ms

Resistance to soldering heat, 260°C, 10s, to IEC 60068

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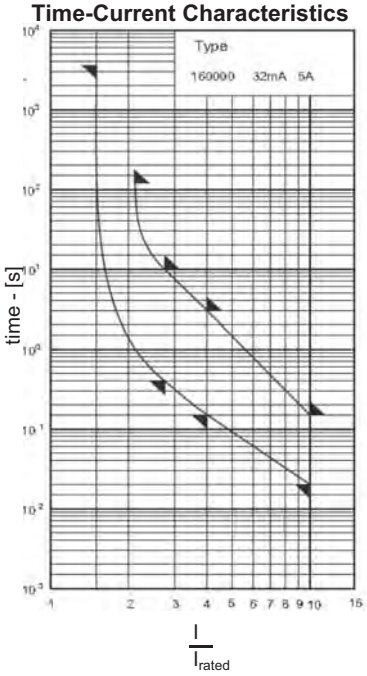
G	Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
cULus E167295 RoHS	250V$_{AC}$	250V$_{AC}$	100A	T	IEC 60127

4.5mmx8mm - Ceramic Tube- Contacts, Brass - Silver Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [mW]	Pre-arcing I^2t @ 10I_n [A^{2}s]	Approvals	Marking
0.032	160000.0.032	✓	100A @ 250V$_{AC}$	1 150	125	0.014		
0.040	160000.0.040	✓	100A @ 250V$_{AC}$	860	150	0.013		
0.050	160000.0.050	✓	100A @ 250V$_{AC}$	800	155	0.013		
0.063	160000.0.063	✓	100A @ 250V$_{AC}$	580	160	0.020		
0.080	160000.0.080	✓	100A @ 250V$_{AC}$	480	150	0.035		
0.100	160000.0.100	✓	100A @ 250V$_{AC}$	350	155	0.06		
0.125	160000.0.125	✓	100A @ 250V$_{AC}$	300	160	0.12		
0.160	160000.0.160	✓	100A @ 250V$_{AC}$	280	190	0.21		
0.200	160000.0.200	✓	100A @ 250V$_{AC}$	260	200	0.32		
0.250	160000.0.250	✓	100A @ 250V$_{AC}$	240	220	0.5		
0.315	160000.0.315	✓	100A @ 250V$_{AC}$	220	250	0.8		
0.400	160000.0.400	✓	100A @ 250V$_{AC}$	200	280	1.1		
0.500	160000.0.500	✓	100A @ 250V$_{AC}$	190	310	1.8		
0.630	160000.0.630	✓	100A @ 250V$_{AC}$	180	360	3.2		
0.800	160000.0.800	✓	100A @ 250V$_{AC}$	160	430	5.2		
1	160000.1	✓	100A @ 250V$_{AC}$	140	500	6.8		
1.25	160000.1.25	✓	100A @ 250V$_{AC}$	130	600	12		
1.6	160000.1.6	✓	100A @ 250V$_{AC}$	120	730	22		
2	160000.2	✓	100A @ 250V$_{AC}$	100	870	30		
2.5	160000.2.5	✓	100A @ 250V$_{AC}$	100	1 000	46		
3.15	160000.3.15	✓	100A @ 250V$_{AC}$	100	1 200	80		
4	160000.4	✓	100A @ 250V$_{AC}$	100	1 400	130		
5	160000.5	✓	100A @ 250V$_{AC}$	100	1 700	130		

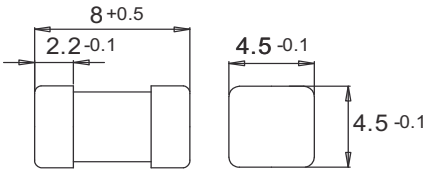
IEC 32mA - 250mA, 100A @ 125V$_{DC}$
IEC 315mA - 5A, 100A @ 60V$_{DC}$

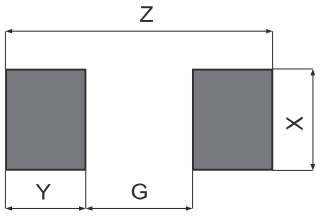
Time-Current Characteristics



Tape reel ordering, add following suffix to article number
GT - (500 pieces on tape reel)
e.g. 160000.0.5GT

Dimensions [mm]





Reflow	Solder Pad Dimensions [mm]	wave
3.6	G	3.6
5.6	X	6.8
2.7	Y	4.2
9.0	Z	12.0

Rated Current	Fusing Time Limits									
	1I_n		2I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
32mA - 5A	1h	—	—	2m	400ms	10ms	150ms	3s	20ms	150ms

Resistance to soldering heat, 260°C, 10s, solder bath
(to IEC 60068-2 -58)

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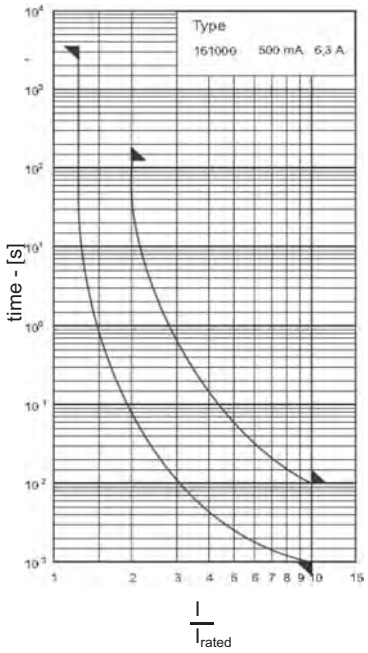
G	Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
RoHS	250V$_{AC}$	250V$_{AC}$	100A	F	IEC 60127-4

4.5mmx8mm - Ceramic Tube w/Filler Contacts- Brass - Silver Plated

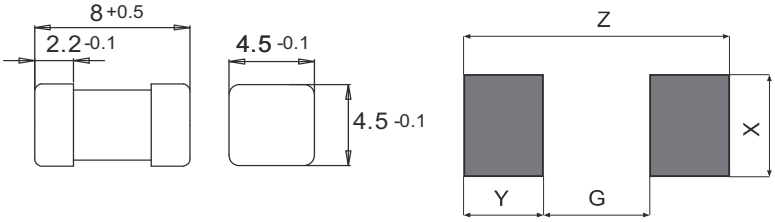
Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.25I_n [mW]	Pre-arcing I^2t [A^{2}s]	Approvals	Marking
0.500	161000.0.500		100A @ 250V$_{AC}$	200	300	0.076		
0.630	161000.0.630		100A @ 250V$_{AC}$	180	300	0.19		
0.800	161000.0.800		100A @ 250V$_{AC}$	160	300	0.38		
1	161000.1		100A @ 250V$_{AC}$	140	300	0.71		
1.25	161000.1.25		100A @ 250V$_{AC}$	140	400	0.94		
1.6	161000.1.6		100A @ 250V$_{AC}$	120	400	0.56		
2	161000.2		100A @ 250V$_{AC}$	110	500	1.1		
2.5	161000.2.5		100A @ 250V$_{AC}$	100	600	2.0		
3.15	161000.3.15		100A @ 250V$_{AC}$	100	700	3.2		
4	161000.4		100A @ 250V$_{AC}$	100	900	5.0		
5	161000.5		100A @ 250V$_{AC}$	100	1 000	9.0		
6.3	161000.6.3		100A @ 250V$_{AC}$	100	1 400	13		

Time-Current Characteristics



Tape reel ordering, add following suffix to article number
GT - (500 pieces on tape reel)
e.g. 161000.1.6GT

Dimensions [mm]



Reflow	Solder Pad Dimensions [mm]	wave
3.6	G	3.6
5.6	X	6.8
2.7	Y	4.2
9.0	Z	12.0

	Fusing Time Limits									
Rated Current	1.25I_n		2I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
500mA - 6.3A	1h	—	—	120s	—	—	—	—	1ms	0ms

Resistance to soldering heat, 260°C, 10s, solder bath
(to IEC 60068-2 -58)

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G

E167295

RoHS

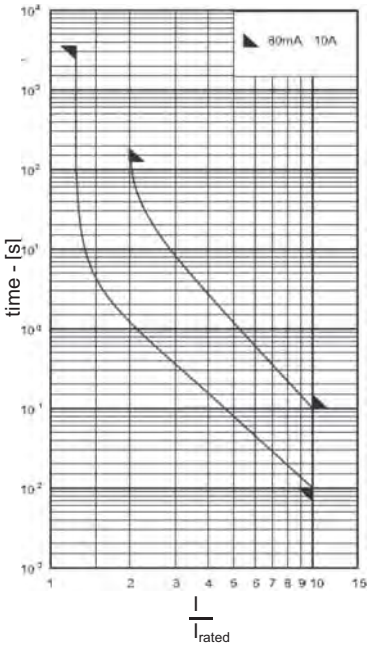
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	100A	T	UL 248-14 IEC 60127-4/2

4.5mmx16mm - Ceramic Tube w/filling, Contacts - Copper Alloy - Silver Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.25I_n [mW]	Pre-arcing I^2t @ 10I_n [A^2s]	Approvals S - Semko	Marking
0.050	160016.0.050	✓	Data on request					
0.080	160016.0.080	✓	1.5kA @ 305V_{AC}[1]	2 050	270	0.025	S	
0.100	160016.0.100	✓	1.5kA @ 305V_{AC}[1]	1 750	290	0.030	S	
0.125	160016.0.125	✓	1.5kA @ 305V_{AC}[1]	1 430	310	0.055	S	
0.160	160016.0.160	✓	1.5kA @ 305V_{AC}[1]	1 220	340	0.065	S	
0.200	160016.0.200	✓	1.5kA @ 305V_{AC}[1]	960	350	0.11	S	
0.250	160016.0.250	✓	1.5kA @ 305V_{AC}[1]	840	360	0.19	S	
0.315	160016.0.315	✓	1.5kA @ 305V_{AC}[1]	700	380	0.34	S	
0.400	160016.0.400	✓	1.5kA @ 305V_{AC}[1]	570	400	0.54	S	
0.500	160016.0.500	✓	1.5kA @ 305V_{AC}[1]	490	430	0.86	S	
0.630	160016.0.630	✓	1.5kA @ 305V_{AC}[1]	410	460	1.5	S	
0.800	160016.0.800	✓	1.5kA @ 305V_{AC}[1]	350	490	2.6	S	
1	160016.1	✓	1.5kA @ 305V_{AC}[1]	380	640	4.5	S	
1.25	160016.1.25	✓	1.5kA @ 305V_{AC}[1]	340	790	4.1	S	
1.6	160016.1.6	✓	1.5kA @ 305V_{AC}[1]	330	970	6.2	S	
2	160016.2	✓	1.5kA @ 305V_{AC}[1]	280	1 060	13	S	
2.5	160016.2.5	✓	1.5kA @ 305V_{AC}[1]	240	1 120	21	S	
3.15	160016.3.15	✓	1.5kA @ 305V_{AC}[1]	200	1 200	35	S	
4	160016.4	✓	1.5kA @ 305V_{AC}[1]	160	1 250	49	S	
5	160016.5	✓	1.5kA @ 277V_{AC}[1]	140	1 300	92	S	
6.3	160016.6.3	✓	1.5kA @ 277V_{AC}[1]	120	1 370	170	S	
8	160016.8	✓	1.5kA @ 250V_{AC}[1]	90	1 250	160	S	
10	160016.10	✓	1.5kA @ 250V_{AC}[1]	80	1 500	280	S	

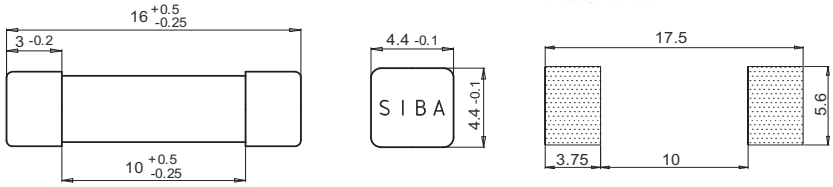
[1] 1.5kA @ 250V_{DC}

Time-Current Characteristics



Tape reel ordering, add following suffix to article number
GT - (1 500 pieces on tape reel)
e.g. 160016.1.25GT

Dimensions [mm]



Recommended Pad Layout

	Fusing Time Limits									
Rated Current	1.25I_n		2I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
250mA - 7A	1h	—	2m	—	—	5s	—	—	10ms	100ms

Resistance to soldering heat, 260°C, 10s, to IEC 60068

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G

RoHS

Rated Voltage [Un] 250V$_{AC}$

Rated Breaking Test Voltage 250V$_{AC}$ Capacity 35A

Class TT

Standard(s) IEC 60127-4

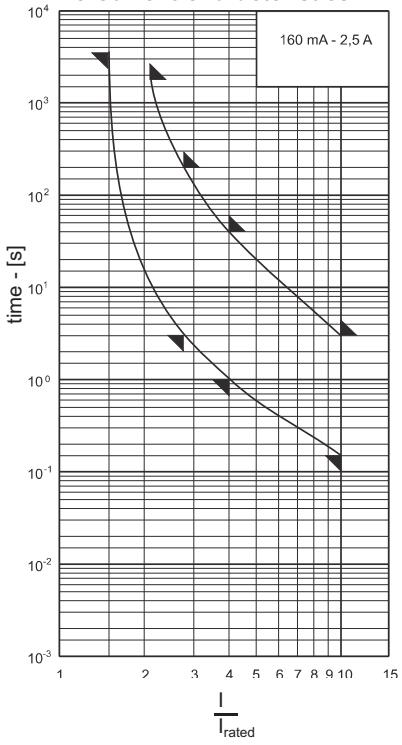
4.5mmx16mm - Ceramic Tube w/Filler, Contacts - Copper Alloy - Silver Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [mW]	Pre-arcing I^2t @ 10I_n [A^2s]	Approvals	Marking
0.160	163016.0.160		35A @ 250V$_{AC}$	*	*	*		
0.200	163016.0.200		35A @ 250V$_{AC}$	*	*	*		
0.250	163016.0.250		35A @ 250V$_{AC}$	*	*	*		
0.315	163016.0.315		35A @ 250V$_{AC}$	*	*	*		
0.400	163016.0.400		35A @ 250V$_{AC}$	190	190	4.5		
0.500	163016.0.500		35A @ 250V$_{AC}$	*	*	*		
0.630	163016.0.630		35A @ 250V$_{AC}$	*	*	*		
0.800	163016.0.800		35A @ 250V$_{AC}$	160	350	14		
1	163016.1		35A @ 250V$_{AC}$	160	550	23		
2	163016.2		35A @ 250V$_{AC}$	80	500	80		
2.5	163016.2.5		35A @ 250V$_{AC}$	*	*	*		

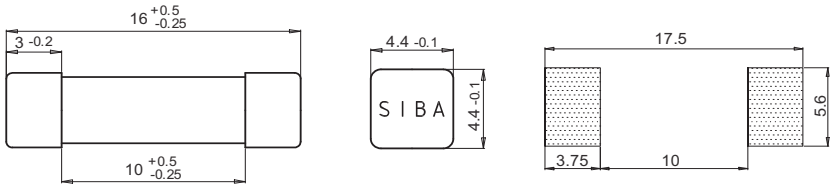
* Data on request

Tape reel ordering, add following suffix to article number
GT - (1 500 pieces on tape reel)
e.g. 163016.1.25GT

Time-Current Characteristics



Dimensions [mm]



Recommended Pad Layout

	Fusing Time Limits									
Rated Current	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
160mA - 2.5A	1h	—	30m	—	3s	200s	1s	40s	150ms	3s

Resistance to soldering heat, 260°C, 10s, to IEC 60068

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E167295

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	35A	F	IEC 60127-3/3 EN 60127-3/3 VDE 0820-3/3

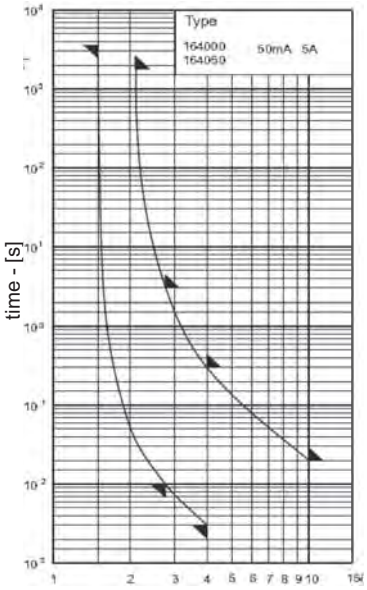
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

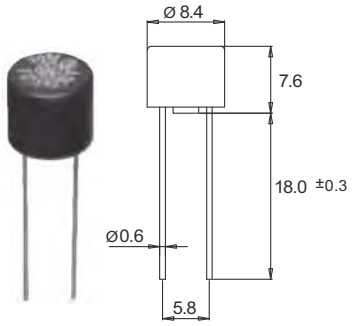
Rated Current I_n [A]	x=0, Long Leeds x=5, Short Leeds Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [mW]	Pre-arcing I^2t [A^{2}s]	Approvals S - Semko	Marking
0.050	1640X0.0.050	✓	35A @ 250V$_{AC}$	820	95	0.0003	S	
0.063	1640X0.0.063	✓	35A @ 250V$_{AC}$	750	110	0.0007	S	
0.080	1640X0.0.080	✓	35A @ 250V$_{AC}$	630	120	0.0015	S	
0.100	1640X0.0.100	✓	35A @ 250V$_{AC}$	550	155	0.0035	S	
0.125	1640X0.0.125	✓	35A @ 250V$_{AC}$	550	175	0.006	S	
0.160	1640X0.0.160	✓	35A @ 250V$_{AC}$	460	210	0.011	S	
0.200	1640X0.0.200	✓	35A @ 250V$_{AC}$	150	80	0.018	S	
0.250	1640X0.0.250	✓	35A @ 250V$_{AC}$	140	90	0.036	S	
0.315	1640X0.0.315	✓	35A @ 250V$_{AC}$	130	120	0.050	S	
0.400	1640X0.0.400	✓	35A @ 250V$_{AC}$	120	140	0.10	S	
0.500	1640X0.0.500	✓	35A @ 250V$_{AC}$	110	160	0.18	S	
0.630	1640X0.0.630	✓	35A @ 250V$_{AC}$	100	180	0.33	S	
0.800	1640X0.0.800	✓	35A @ 250V$_{AC}$	90	200	0.14	S	
1	1640X0.1	✓	35A @ 250V$_{AC}$	80	220	0.24	S	
1.25	1640X0.1.25	✓	35A @ 250V$_{AC}$	75	260	0.35	S	
1.6	1640X0.1.6	✓	35A @ 250V$_{AC}$	70	350	0.60	S	
2	1640X0.2	✓	35A @ 250V$_{AC}$	65	380	1.2	S	
2.5	1640X0.2.5	✓	35A @ 250V$_{AC}$	60	420	2.0	S	
3.15	1640X0.3.15	✓	35A @ 250V$_{AC}$	60	580	3.5	S	
4	1640X0.4	✓	40A @ 250V$_{AC}$	60	700	6.2	S	
5	1640X0.5	✓	50A @ 250V$_{AC}$	60	900	13	S	
6.3	1640X0.6.3	✓	63A @ 250V$_{AC}$	60	1 100	19	S	

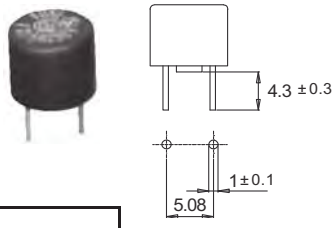
X=0 - Long leads
X=5 - Short leads

Tape reel ordering, add following suffix to article number
GT - (1 000 pieces on tape reel)
IP - (2 000 pieces)
e.g. 164000.3.15GT

Time-Current Characteristics







Rated Current	Fusing Time Limits 1.5I_n Min	1.5I_n Max	2.1I_n Min	2.1I_n Max	2.75I_n Min	2.75I_n Max	4I_n Min	4I_n Max	10I_n Min	10I_n Max
50mA - 6.3A	1h	—	30m	—	10ms	3s	3ms	300ms	—	20ms

Dimensions [mm]

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G

E167295

RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	50A	F	UL 248-14 IEC 60127-4/2

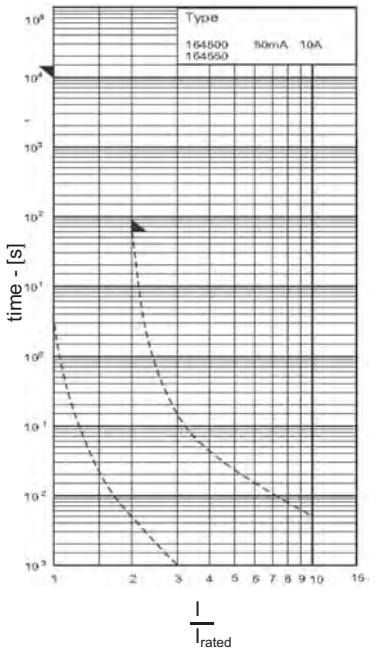
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

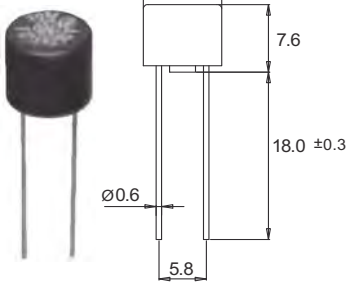
Rated Current I_n [A]	x=0, Long Leeds x=5, Short Leeds Article Number	UL	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.0I_n [mW]	Pre-arcing I^2t [A^2s]	Approvals	Marking
0.050	1645X0.0.050	✓	50A @ 250V$_{AC}$	2 400	120	0.0001		
0.063	1645X0.0.063	✓	50A @ 250V$_{AC}$	1 350	85	0.0003		
0.080	1645X0.0.080	✓	50A @ 250V$_{AC}$	1 200	95	0.0007		
0.100	1645X0.0.100	✓	50A @ 250V$_{AC}$	1 100	110	0.0015		
0.125	1645X0.0.125	✓	50A @ 250V$_{AC}$	1 000	125	0.003		
0.160	1645X0.0.160	✓	50A @ 250V$_{AC}$	950	155	0.0075		
0.200	1645X0.0.200	✓	50A @ 250V$_{AC}$	850	170	0.013		
0.250	1645X0.0.250	✓	50A @ 250V$_{AC}$	240	60	0.02		
0.315	1645X0.0.315	✓	50A @ 250V$_{AC}$	230	75	0.03		
0.400	1645X0.0.400	✓	50A @ 250V$_{AC}$	220	90	0.055		
0.500	1645X0.0.500	✓	50A @ 250V$_{AC}$	210	105	0.1		
0.630	1645X0.0.630	✓	50A @ 250V$_{AC}$	200	130	0.19		
0.800	1645X0.0.800	✓	50A @ 250V$_{AC}$	190	155	0.36		
1	1645X0.1	✓	50A @ 250V$_{AC}$	180	180	0.14		
1.25	1645X0.1.25	✓	50A @ 250V$_{AC}$	170	215	0.24		
1.6	1645X0.1.6	✓	50A @ 250V$_{AC}$	160	260	0.34		
2	1645X0.2	✓	50A @ 250V$_{AC}$	150	300	0.56		
2.5	1645X0.2.5	✓	50A @ 250V$_{AC}$	140	350	1.1		
3.15	1645X0.3.15	✓	50A @ 250V$_{AC}$	130	410	2		
4	1645X0.4	✓	50A @ 250V$_{AC}$	120	480	3.2		
5	1645X0.5	✓	50A @ 250V$_{AC}$	110	550	6.2		
6.3	1645X0.6.3	✓	50A @ 250V$_{AC}$	100	630	14		
8	1645X0.8		50A @ 250V$_{AC}$	90	720	24		
10	1645X0.10		50A @ 250V$_{AC}$	90	900	40		

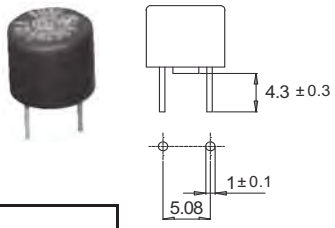
X=0 - Long leads
X=5 - Short leads

Tape reel ordering, add following suffix to article number
GT - (1 000 pieces on tape reel)
IP - (2 000 pieces)
e.g. 164500.1.25GT

Time-Current Characteristics







Rated Current	Fusing Time Limits									
	1I_n		1.35I_n		1.50I_n		2.00I_n			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
50mA - 6.3A	4h	—	—	—	—	—	—	60s	—	—

Dimensions [mm]

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	35A	M	IEC 60127-3

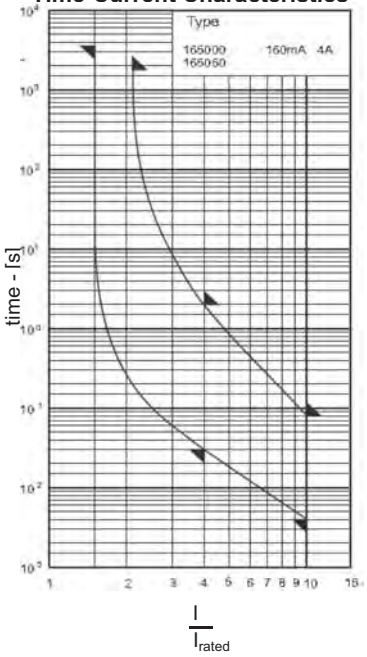
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

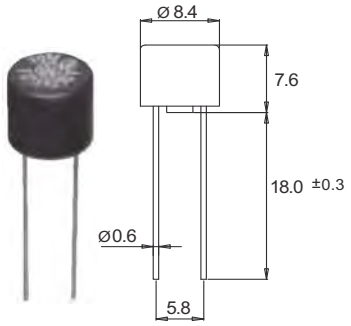
Rated Current I_n [A]	x=0, Long Leeds x=5, Short Leeds Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [mW]	Pre-arcing I^2t [A^2s]	Approvals	Marking
0.160	1650X0.0.160		35A @ $250V_{AC}$	325	140	0.075		
0.200	1650X0.0.200		35A @ $250V_{AC}$	120	80	0.02		
0.250	1650X0.0.250		35A @ $250V_{AC}$	120	90	0.036		
0.315	1650X0.0.315		35A @ $250V_{AC}$	120	120	0.05		
0.400	1650X0.0.400		35A @ $250V_{AC}$	110	140	0.11		
0.500	1650X0.0.500		35A @ $250V_{AC}$	100	160	0.2		
0.630	1650X0.0.630		35A @ $250V_{AC}$	90	80	0.33		
0.800	1650X0.0.800		35A @ $250V_{AC}$	80	140	0.58		
1	1650X0.1		35A @ $250V_{AC}$	70	160	0.9		
1.25	1650X0.1.25		35A @ $250V_{AC}$	65	190	1.4		
1.6	1650X0.1.6		35A @ $250V_{AC}$	65	200	2.5		
2	1650X0.2		35A @ $250V_{AC}$	60	350	3.1		
2.5	1650X0.2.5		35A @ $250V_{AC}$	55	380	5.1		
3.15	1650X0.3.15		35A @ $250V_{AC}$	55	510	9.9		
4	1650X0.4		40A @ $250V_{AC}$	50	550	16		

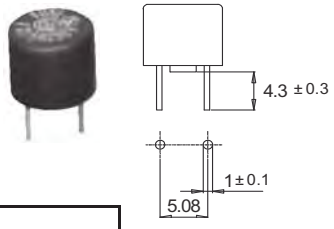
X=0 - Long leads
X=5 - Short leads

Tape reel ordering, add following suffix to article number
GT - (1 000 pieces on tape reel)
IP - (2 000 pieces)
e.g. 165000.1.25GT

Time-Current Characteristics







Rated Current	Fusing Time Limits									
	$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
50mA - 6.3A	1h	—	—	30m	—	—	30ms	2s	4ms	80ms

Dimensions [mm]

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E167295

RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	35A	T	IEC 60127-43/4 EN 60127-43/4 VDE 0820 - 3/4

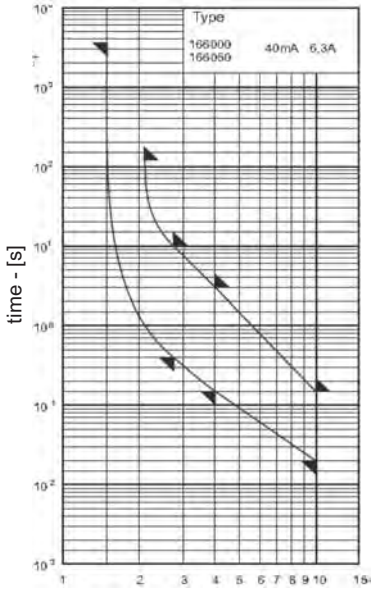
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

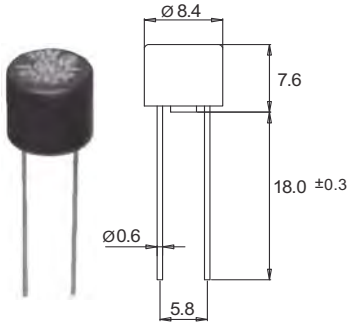
Rated Current I_n [A]	x=0, Long Leeds x=5, Short Leeds Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [mW]	Pre-arcing I^2t [A^{2}s]	Approvals S - Semko V - VDE	Marking
0.040	1660X0.0.040	✓	35A @ 250V$_{AC}$	530	60	0.015	S V	
0.050	1660X0.0.050	✓	35A @ 250V$_{AC}$	490	70	0.017	S V	
0.063	1660X0.0.063	✓	35A @ 250V$_{AC}$	390	80	0.02	S V	
0.080	1660X0.0.080	✓	35A @ 250V$_{AC}$	300	90	0.035	S V	
0.100	1660X0.0.100	✓	35A @ 250V$_{AC}$	260	100	0.06	S V	
0.125	1660X0.0.125	✓	35A @ 250V$_{AC}$	180	110	0.12	S V	
0.160	1660X0.0.166	✓	35A @ 250V$_{AC}$	170	130	0.21	S V	
0.200	1660X0.0.200	✓	35A @ 250V$_{AC}$	160	140	0.32	S V	
0.250	1660X0.0.250	✓	35A @ 250V$_{AC}$	150	150	0.50	S V	
0.315	1660X0.0.315	✓	35A @ 250V$_{AC}$	140	160	0.8	S V	
0.400	1660X0.0.400	✓	35A @ 250V$_{AC}$	130	170	1.1	S V	
0.500	1660X0.0.500	✓	35A @ 250V$_{AC}$	120	180	1.8	S V	
0.630	1660X0.0.630	✓	35A @ 250V$_{AC}$	110	200	3.2	S V	
0.800	1660X0.0.800	✓	35A @ 250V$_{AC}$	100	220	5.2	S V	
1	1660X0.1	✓	35A @ 250V$_{AC}$	85	240	8	S V	
1.25	1660X0.1.25	✓	35A @ 250V$_{AC}$	75	290	12	S V	
1.6	1660X0.1.6	✓	35A @ 250V$_{AC}$	70	350	22	S V	
2	1660X0.2	✓	35A @ 250V$_{AC}$	70	480	30	S V	
2.5	1660X0.2.5	✓	35A @ 250V$_{AC}$	70	520	46	S V	
3.15	1660X0.3.15	✓	35A @ 250V$_{AC}$	70	600	80	S V	
4	1660X0.4	✓	40A @ 250V$_{AC}$	70	800	130	S V	
5	1660X0.5	✓	50A @ 250V$_{AC}$	70	1 000	130	S V	
6.3	1660X0.6.3		63A @ 250V$_{AC}$	70	1 200	230	S V	

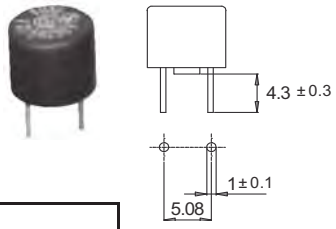
X=0 - Long leads
X=5 - Short leads

Tape reel ordering, add following suffix to article number
GT - (1 000 pieces on tape reel)
IP - (2 000 pieces)
e.g. 166000.3.15GT

Time-Current Characteristics







Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
50mA - 6.3A	1h	—	—	2m	400ms	10s	150ms	3s	20ms	150ms

Dimensions [mm]

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	50A	T	UL 248-14 CSA C22.s No 248.14

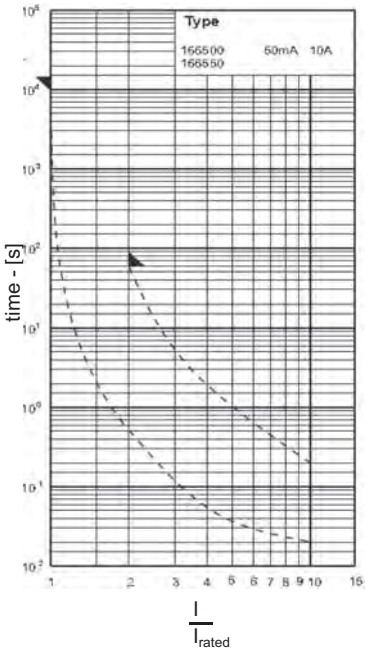
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

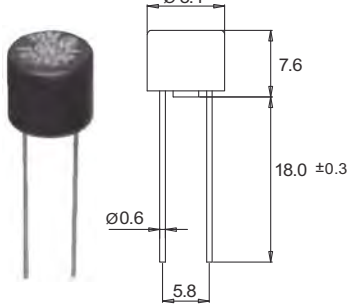
Rated Current I_n [A]	x=0, Long Leeds x=5, Short Leeds Article Number	UL	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [mW]	Pre-arcing I^2t [A^{2}s]	Approvals S - Semko	Marking
0.050	1665X0.0.050	✓	50A @ 250V$_{AC}$	800	40	0.015		
0.063	1665X0.0.063	✓	50A @ 250V$_{AC}$	700	45	0.017		
0.080	1665X0.0.080	✓	50A @ 250V$_{AC}$	600	50	0.02		
0.100	1665X0.0.100	✓	50A @ 250V$_{AC}$	500	50	0.025		
0.125	1665X0.0.125	✓	50A @ 250V$_{AC}$	400	50	0.03		
0.160	1665X0.0.160	✓	50A @ 250V$_{AC}$	350	55	0.07		
0.200	1665X0.0.200	✓	50A @ 250V$_{AC}$	300	60	0.14		
0.250	1665X0.0.250	✓	50A @ 250V$_{AC}$	250	65	0.25		
0.315	1665X0.0.315	✓	50A @ 250V$_{AC}$	240	75	0.42		
0.400	1665X0.0.400	✓	50A @ 250V$_{AC}$	230	95	0.53		
0.500	1665X0.0.500	✓	50A @ 250V$_{AC}$	220	110	1.0		
0.630	1665X0.0.630	✓	50A @ 250V$_{AC}$	170	110	1.5		
0.800	1665X0.0.800	✓	50A @ 250V$_{AC}$	150	120	3.1		
1	1665X0.1	✓	50A @ 250V$_{AC}$	130	130	4.8		
1.25	1665X0.1.25	✓	50A @ 250V$_{AC}$	150	190	5.7		
1.6	1665X0.1.6	✓	50A @ 250V$_{AC}$	145	235	11		
2	1665X0.2	✓	50A @ 250V$_{AC}$	125	250	18		
2.5	1665X0.2.5	✓	50A @ 250V$_{AC}$	120	300	25		
3.15	1665X0.3.15	✓	50A @ 250V$_{AC}$	110	350	40		
4	1665X0.4	✓	50A @ 250V$_{AC}$	100	400	72		
5	1665X0.5	✓	50A @ 250V$_{AC}$	95	475	130		
6.3	1665X0.6.3	✓	50A @ 250V$_{AC}$	90	570	130		
8	1665X0.8		50A @ 250V$_{AC}$	90	720	230		
10	1665X0.10		50A @ 250V$_{AC}$	90	900	370		

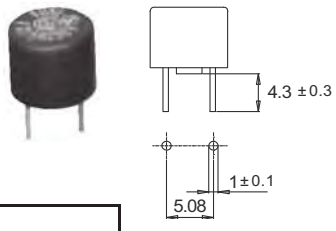
X=0 - Long leads
X=5 - Short leads

Tape reel ordering, add following suffix to article number
GT - (1 000 pieces on tape reel)
IP - (2 000 pieces)
e.g. 166500.3.15GT

Time-Current Characteristics







	Fusing Time Limits									
Rated Current	1I_n		1.35I_n		1.50I_n		2.00I_n			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
50mA - 10A	4h	—	—	—	—	—	—	60s	—	—

Dimensions [mm]

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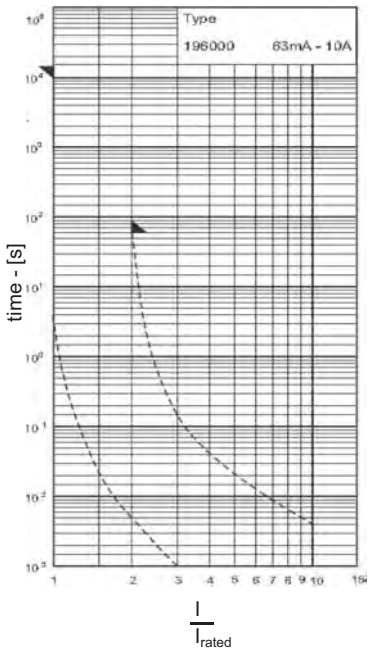
G	Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
c UL us E167295 RoHS	250V$_{AC}$	250V$_{AC}$	50A	F	UL 248-14

2.3mmx8mm - Ceramic Tube w/Heat Shrink Tubing, Leeds Tinned

Rated Current I_n [A]	Article Number	UL	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [mW]	Pre-arcing I^2t [A^{2}s]	Approvals
0.063	196000.0.063	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	2 250	7.21	0.0002	
0.125	196000.0.125	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	1 500	2.78	0.001	
0.250	196000.0.250	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	1 000	0.60	0.007	
0.375	196000.0.375	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	1 000	0.40	0.006	
0.500	196000.0.500	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	1 000	0.27	0.018	
0.750	196000.0.750	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	275	0.16	0.04	
1	196000.1	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	275	0.12	0.094	
1.5	196000.1.5	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	275	0.063	0.33	
2	196000.2	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	250	0.057	0.41	
3	196000.3	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	250	0.029	1.5	
4	196000.4	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	225	0.018	3.2	
5	196000.5	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	225	0.017	4.1	
7	196000.7	✓	300A @ 125V$_{DC}$ 50A @ 125V$_{AC}$	150	0.013	11	
10	196000.10	✓[1]	50A @ 125V$_{AC}$	125	0.06	30	

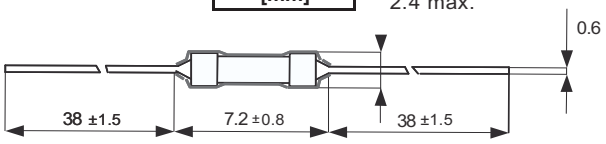
[1] UL recognition only

Time-Current Characteristics



Tape reel ordering, add following suffix to article number
GT - (5 000 pieces on tape reel)
e.g. 196000.10GT

Dimensions [mm]



Rated Current	Fusing Time Limits									
	1I_n		1.35I_n		1.50I_n		2.00I_n			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
63mA - 6.3A	4h	—	—	—	—	—	—	5s	—	—

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Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	50A	FF	

E180276

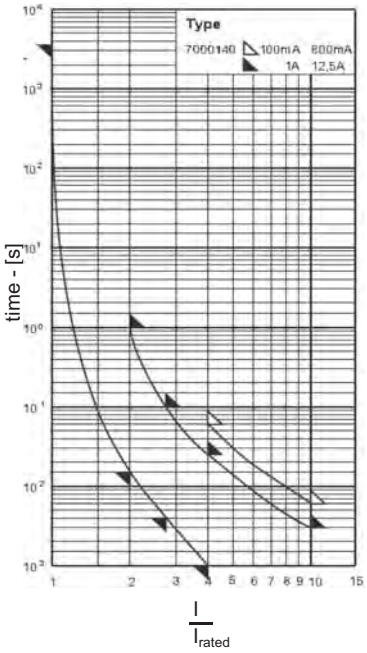
5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.0I_n$ [mW]	Pre-arcing I^2t [A^2s]	Approvals
0.100	7000140.0.100		300kA @ $250V_{AC}$	4 000	0.4	0.0016	
0.125	7000140.0.125	✓	300kA @ $250V_{AC}$	3 500	0.5	0.0024	
0.160	7000140.0.160	✓	300kA @ $250V_{AC}$	1 300	0.3	0.004	
0.200	7000140.0.200	✓	300kA @ $250V_{AC}$	600	0.2	0.008	
0.250	7000140.0.250	✓	300kA @ $250V_{AC}$	550	0.2	0.019	
0.315	7000140.0.315	✓	300kA @ $250V_{AC}$	500	0.2	0.03	
0.400	7000140.0.400	✓	300kA @ $250V_{AC}$	500	0.2	0.065	
0.500	7000140.0.500	✓	300kA @ $250V_{AC}$	550	0.3	0.12	
0.630	7000140.0.630	✓	300kA @ $250V_{AC}$	600	0.4	0.17	
0.800	7000140.0.800	✓	300kA @ $250V_{AC}$	600	0.5	0.26	
1	7000140.1	✓	300kA @ $250V_{AC}$	600	0.6	0.17	
1.25	7000140.1.25	✓	300kA @ $250V_{AC}$	400	0.5	0.26	
1.6	7000140.1.6	✓	300kA @ $250V_{AC}$	400	0.7	0.31	
2	7000140.2	✓	300kA @ $250V_{AC}$	400	0.8	0.64	
2.5	7000140.2.5	✓	300kA @ $250V_{AC}$	400	1.0	0.88	
3.15	7000140.3.15	✓	300kA @ $250V_{AC}$	400	1.3	1.6	
4	7000140.4	✓	300kA @ $250V_{AC}$	350	1.4	3.2	
5	7000140.5	✓	300kA @ $250V_{AC}$	350	1.8	5.9	
6.3	7000140.6.3		300kA @ $250V_{AC}$	300	1.9	10	
8	7000140.8		300kA @ $250V_{AC}$	300	2.4	19	
10	7000140.10		300kA @ $250V_{AC}$	300	3.0	30	
12.5	7000140.12.5		300kA @ $250V_{AC}$	200	2.5	115	

Weight (kg per 100)
0.14
Units per Package
10

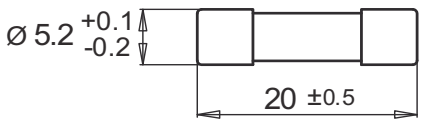
For 6.3A and higher, consideration should be given to heat dissipation

Time-Current Characteristics



IP - (1 000 pieces)
e.g. 70 001 140.3.15IP

Dimensions [mm]



	Fusing Time Limits									
Rated Current	$1I_n$		$2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
100mA - 800A	1h	—	—	—	—	—	—	60ms	—	6ms
1A - 12.5A	1h	—	—	1s	4ms	100ms	1ms	25ms	—	3ms

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E180276

RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$400V_{AC}$	$400V_{AC}$	10kA	FF	

5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.0I_n [mW]	Pre-arcing I^2t [A^2s]	Approvals
0.100	7000740.0.100		10kA @ $400V_{AC}$	4 000	0.4	0.0016	
0.125	7000740.0.125		10kA @ $400V_{AC}$	3 500	0.5	0.0024	
0.160	7000740.0.160		10kA @ $400V_{AC}$	1 300	0.3	0.004	
0.200	7000740.0.200		10kA @ $400V_{AC}$	600	0.2	0.01	
0.250	7000740.0.250		10kA @ $400V_{AC}$	550	0.2	0.02	
0.315	7000740.0.315		10kA @ $400V_{AC}$	500	0	0.04	
0.400	7000740.0.400		10kA @ $400V_{AC}$	500	0.2	0.07	
0.500	7000740.0.500		10kA @ $400V_{AC}$	550	0.3	0.07	
0.630	7000740.0.630		10kA @ $400V_{AC}$	600	0.4	0.15	
0.800	7000740.0.800		10kA @ $400V_{AC}$	600	0.5	0.32	
1	7000740.1		10kA @ $400V_{AC}$	600	0.6	0.32	
1.25	7000740.1.25		10kA @ $400V_{AC}$	400	0.5	0.20	
1.6	7000740.1.6		10kA @ $400V_{AC}$	400	0.7	0.31	
2	7000740.2		10kA @ $400V_{AC}$	400	0.8	0.64	
2.5	7000740.2.5		10kA @ $400V_{AC}$	400	1.0	0.88	
3.15	7000740.3.15		10kA @ $400V_{AC}$	400	1.3	1.6	
4	7000740.4		10kA @ $400V_{AC}$	350	1.4	3.2	
					@ 1.5I_n		
6.3	7000740.6.3	✓	300kA @ $250V_{AC}$	250	2.8	1.6	
8	7000740.8	✓	300kA @ $250V_{AC}$	230	3.0	4.5	
10	7000740.10	✓	300kA @ $250V_{AC}$	180	3.4	8.8	
12.5	7000740.12.5	✓	300kA @ $250V_{AC}$	150	4.0	15	
16	7000740.16		10kA @ $125V_{AC}$	130	3.8	46	

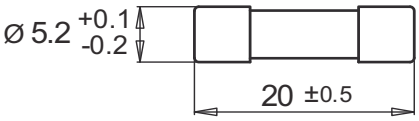
Weight (kg per 100)
0.14

Units per Package
10

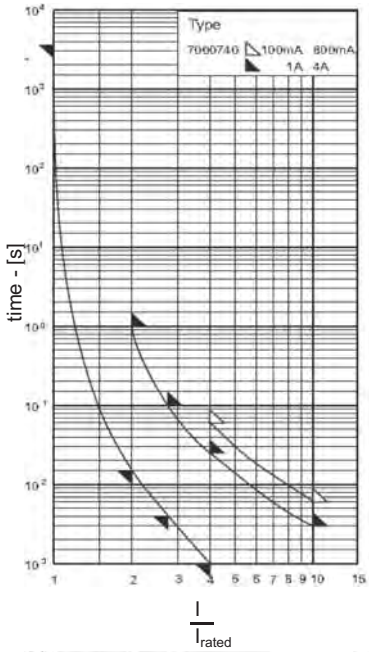
For 6.3A and higher, consideration should be given to heat dissipation

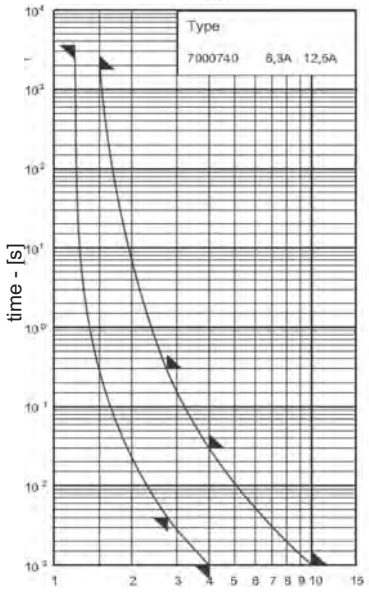
IP - (1 000 pieces)
e.g. 70 007 40.1.25IP

Dimensions [mm]



Time-Current Characteristics





Rated Current	Fusing Time Limits									
	1I_n		2I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
100mA - 800A	1h	—	—	—	—	—	—	60ms	—	6ms
1A - 4A	1h	—	—	1s	4ms	100ms	1ms	25ms	—	3ms
Rated Current	1.2I_n		2I_n		2.75I_n		4I_n		10I_n	
1A - 4A	1h	—	—	30m	4ms	300ms	1ms	30ms	—	1ms

G | **Rated Voltage [Un] 660V$_{AC/DC}$** | **Rated Breaking Test Voltage 660V$_{AC/DC}$** | **Capacity 100kA** | **Class aR{FF}** | **Standard(s)**

RoHS

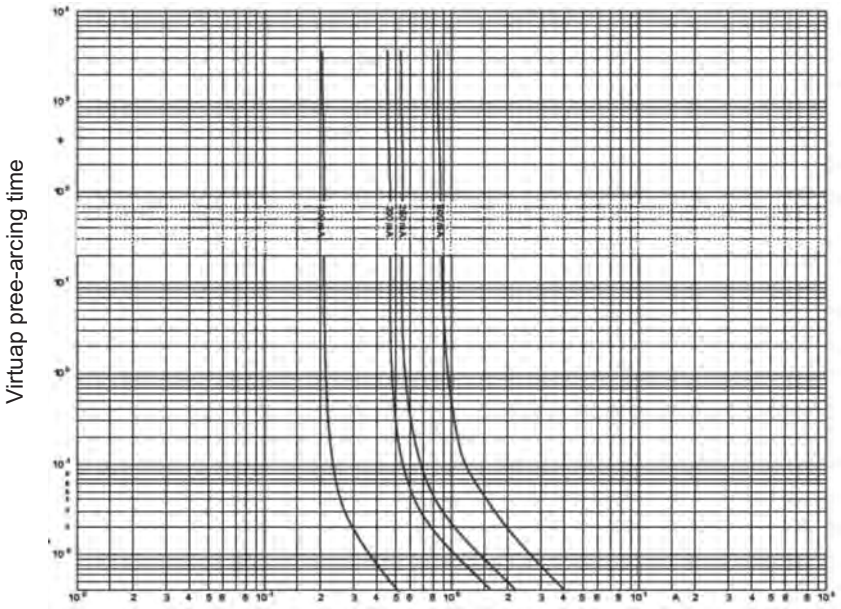
5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated — Short Circuit Protection Only

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.0I_n [mW]	Pre-arcing I^2t [A^2s]	Approvals
0.100	7018040.0.100		100kA @ 660V$_{AC/DC}$	1 000	0.1	0.0009	
0.200	7018040.0.200		100kA @ 660V$_{AC/DC}$	600	0.2	0.01	
0.250	7018040.0.250		100kA @ 660V$_{AC/DC}$	550	0.2	0.02	
0.500	7018040.0.500		100kA @ 660V$_{AC/DC}$	550	0.3	0.07	

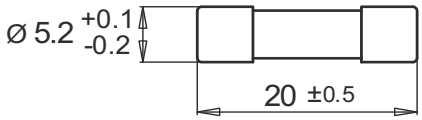
Weight (kg per 100)
0.14
Units per Package
10

IP - (1 000 pieces)
e.g. 70 180 40.3.15IP

Time-Current Characteristics



Dimensions [mm]



	Fusing Time Limits									
Rated Current	1I_n		2I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
100mA - 500A	1h	–	–	–	–	–	–	60ms	–	6ms

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RoHS

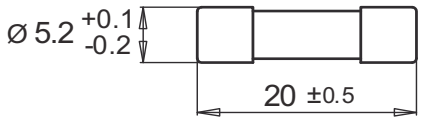
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	1.5kA	F	IEC 60127-2/2 EN 60127-2/2 VDE 0820 - 2/2

5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [W]	Pre-arcing I^2t [A^{2}s]	Approvals S - Semko V - VDE B - BEAB
0.032	179020.0.032	✓	35A @ 250V$_{AC}$	10 000	0.8	0.0001	S V
0.040	179020.0.040	✓	35A @ 250V$_{AC}$	8 000	0.8	0.0002	S V B
0.050	179020.0.050	✓	35A @ 250V$_{AC}$	3 500	0.4	0.0004	S V
0.063	179020.0.063	✓	35A @ 250V$_{AC}$	3 500	0.5	0.0007	S V B
0.080	179020.0.080	✓	35A @ 250V$_{AC}$	2 500	0.5	0.0017	S V B
0.100	179020.0.100	✓	35A @ 250V$_{AC}$	2 200	0.6	0.0022	S V B
0.125	179020.0.125	✓	35A @ 250V$_{AC}$	350	0.2	0.01	S V B
0.160	179020.0.160	✓	35A @ 250V$_{AC}$	310	0.2	0.02	S V B
0.200	179020.0.200	✓	35A @ 250V$_{AC}$	290	0.2	0.01	S V B
0.250	179020.0.250	✓	35A @ 250V$_{AC}$	280	0.2	0.02	S V B
0.315	179020.0.315	✓	35A @ 250V$_{AC}$	230	0.3	0.037	S V B
0.400	179020.0.400	✓	35A @ 250V$_{AC}$	200	0.3	0.073	S V B
0.500	179020.0.500	✓	35A @ 250V$_{AC}$	160	0.3	0.16	S V B
0.630	179020.0.630	✓	35A @ 250V$_{AC}$	140	0.3	0.39	S V B
0.700	179020.0.700	✓	35A @ 250V$_{AC}$	140	0.3	0.56	
0.800	179020.0.800	✓	35A @ 250V$_{AC}$	130	0.4	0.8	S V B
1	179020.1	✓	35A @ 250V$_{AC}$	130	0.4	1.5	S V B
1.25	179020.1.25	✓	35A @ 250V$_{AC}$	120	0.5	2.0	S V B
1.4	179020.1.4	✓	35A @ 250V$_{AC}$	120	0.6	2.5	
1.5	179020.1.5	✓	35A @ 250V$_{AC}$	120	0.6	3.2	
1.6	179020.1.6	✓	35A @ 250V$_{AC}$	120	0.7	4.1	S V B
2	179020.2	✓	35A @ 250V$_{AC}$	120	0.7	6.2	S V B
2.5	179020.2.5	✓	35A @ 250V$_{AC}$	120	0.9	11	S V B
3.15	179020.3.15	✓	35A @ 250V$_{AC}$	120	1.0	20	S V B
3.5	179020.3.5		35A @ 250V$_{AC}$	110	1.2	20	
4	179020.4	✓	40A @ 250V$_{AC}$	100	1.3	25	S V B
5	179020.5	✓	50A @ 250V$_{AC}$	100	1.4	42	S V B
6.3	179020.6.3	✓	63A @ 250V$_{AC}$	100	1.7	79	S V B
8	179020.8		80A @ 250V$_{AC}$	100	2.0	125	
10	179020.10		100A @ 250V$_{AC}$	100	2.4	220	

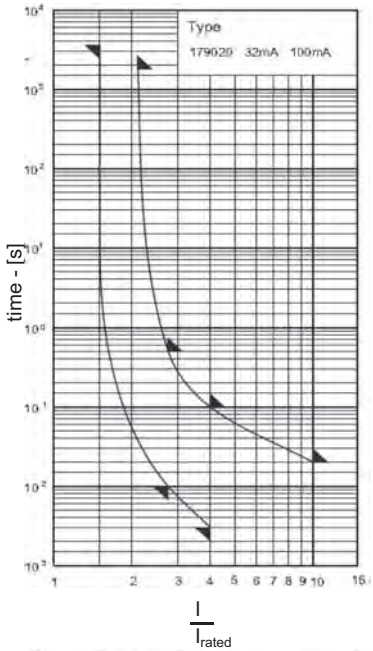
Weight (kg per 100)
0.14
Units per Package
10

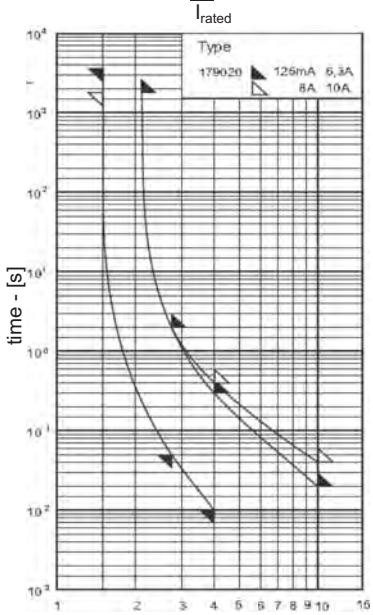
Dimensions [mm]



FC - 1 000 pieces with color code
AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 179020.3.15IP

Time-Current Characteristics





Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
32mA - 100mA	1h	—	—	30m	10ms	500ms	3ms	100ms	—	20ms
125mA - 6.3A	1h	—	—	30m	50ms	2s	10ms	300ms	—	20ms
8A - 10A	30m	—	—	30m	50ms	2s	10ms	400ms	—	40ms

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	1.5kA	F	IEC 60127-2/1 EN 60127-2/1 VDE 0820 - 2/1

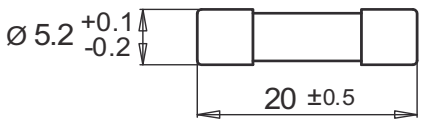
5mmx20mm - Ceramic Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [W]	Pre-arcing I^2t [A^2s]	Approvals S - Semko
0.050	179021.0.050		1.5kA @ $250V_{AC}$ [1]	4 000	0.5	0.00022	S
0.063	179021.0.063		1.5kA @ $250V_{AC}$ [1]	3 900	0.6	0.00037	S
0.080	179021.0.080		1.5kA @ $250V_{AC}$ [1]	3 200	0.7	0.00073	S
0.100	179021.0.100		1.5kA @ $250V_{AC}$ [1]	2 600	0.8	0.0011	S
0.125	179021.0.125		1.5kA @ $250V_{AC}$ [1]	360	0.2	0.01	S
0.160	179021.0.160		1.5kA @ $250V_{AC}$ [1]	320	0.2	0.02	S
0.200	179021.0.200	✓	1.5kA @ $250V_{AC}$ [1]	290	0.2	0.038	S
0.250	179021.0.250	✓	1.5kA @ $250V_{AC}$ [1]	280	0.3	0.073	S
0.315	179021.0.315	✓	1.5kA @ $250V_{AC}$ [1]	230	0.3	0.016	S
0.400	179021.0.400	✓	1.5kA @ $250V_{AC}$ [1]	650	0.9	0.055	S
0.500	179021.0.500	✓	1.5kA @ $250V_{AC}$ [1]	600	1.0	0.10	S
0.630	179021.0.630	✓	1.5kA @ $250V_{AC}$ [1]	550	1.1	0.19	S
0.800	179021.0.800	✓	1.5kA @ $250V_{AC}$ [1]	500	1.3	0.16	S
1	179021.1	✓	1.5kA @ $250V_{AC}$ [1]	450	1.4	0.28	S
1.25	179021.1.25	✓	1.5kA @ $250V_{AC}$ [1]	400	1.6	0.6	S
1.6	179021.1.6	✓	1.5kA @ $250V_{AC}$ [1]	350	1.8	1.0	S
2	179021.2	✓	1.5kA @ $250V_{AC}$ [1]	320	2.0	1.8	S
2.5	179021.2.5	✓	1.5kA @ $250V_{AC}$ [1]	270	2.1	3.0	S
3.15	179021.3.15	✓	1.5kA @ $250V_{AC}$ [1]	220	2.2	6.2	S
4	179021.4	✓	1.5kA @ $250V_{AC}$ [1]	180	2.3	15	S
5	179021.5	✓	1.5kA @ $250V_{AC}$ [1]	150	2.4	31	S
6.3	179021.6.3	✓	1.5kA @ $250V_{AC}$ [1]	130	2.6	52	S
8	179021.8	✓	1.5kA @ $250V_{AC}$ [1]	100	2.8	110	
10	179021.10	✓	1.5kA @ $250V_{AC}$ [1]	100	3.0	200	
12.5	179021.12.5		1.0kA @ $250V_{AC}$	100	3.4	300	
16	179021.16		1.0kA @ $250V_{AC}$	100	4.0	590	

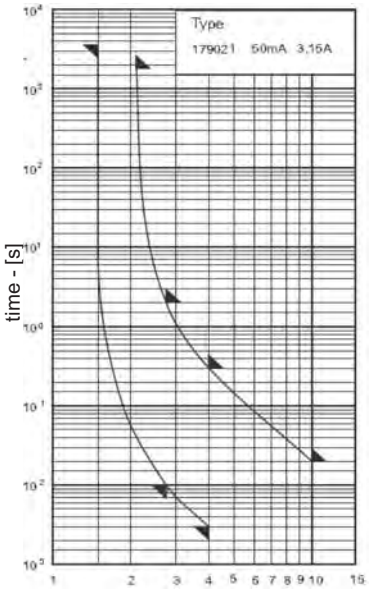
Weight (kg per 100)	[1] cosφ = 0.7 - 0.8
0.14	
Units per Package	
10	

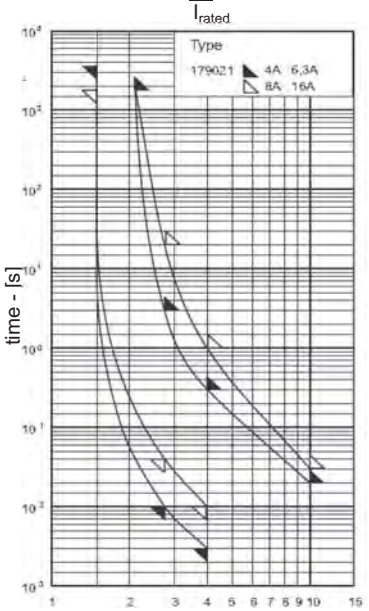
FC - 1 000 pieces with color code
AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 179021.2.5IP

Dimensions [mm]



Time-Current Characteristics





Rated Current	Fusing Time Limits									
	$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
32mA - 100mA	1h	—	—	30m	10ms	2s	3ms	300ms	—	20ms
125mA - 6.3A	1h	—	—	30m	10ms	3s	3ms	300ms	—	20ms
8A - 10A	30m	—	—	30m	40ms	20s	10ms	1s	—	30ms

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	1.5kA	F	DIN 41571-1

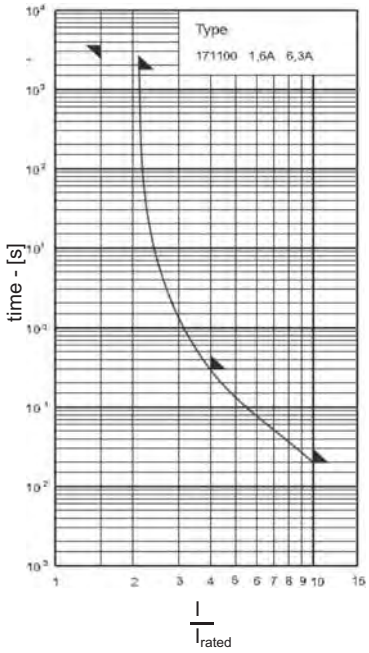
5mmx20mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [W]	Pre-arcing I^2t [A^2s]	Approvals
1.6	171100.1.6		1.0kA @ $250V_{AC}$	480	1.3	1.1	
2	171100.2		1.0kA @ $250V_{AC}$	400	1.5	2	
2.5	171100.2.5		1.0kA @ $250V_{AC}$	400	1.6	4	
3.15	171100.3.15		1.0kA @ $250V_{AC}$	240	1.7	9	
4	171100.4		1.0kA @ $250V_{AC}$	240	1.9	18	
5	171100.5		1.0kA @ $250V_{AC}$	230	2.3	32	
6.3	171100.6.3		1.0kA @ $250V_{AC}$	170	2.8	52	
8	171100.8		300A @ $250V_{AC}$	160	3.2	100	
10	171100.10		300A @ $250V_{AC}$	150	3.4	200	

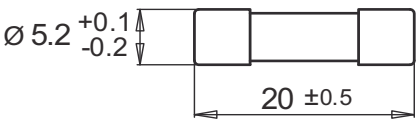
Weight (kg per 100)
0.14
Units per Package
10

IP - (1 000 pieces)
e.g. 171100.3.15IP

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1.6A - 6.3A	1h	—	—	30m	—	—	—	300ms	—	20ms

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	80A / 1kA / 300A	M	DIN 41571-2

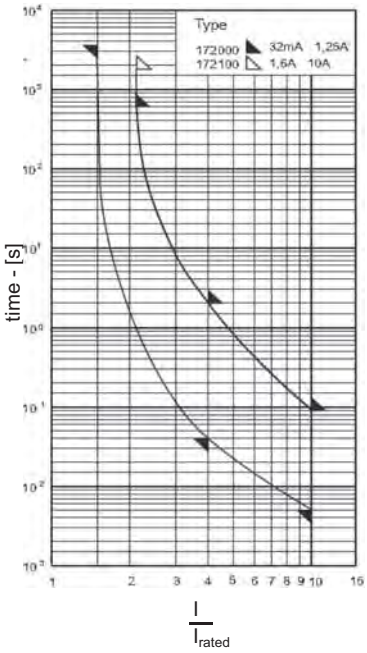
5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [W]	Pre-arcing I^2t [A^2s]	Approvals
No Filler							
0.032	172000.0.032		80A @ $250V_{AC}$	560	0.1	0.0055	
0.040	172000.0.040		80A @ $250V_{AC}$	490	0.1	0.0008	
0.050	172000.0.050		80A @ $250V_{AC}$	440	0.1	0.0013	
0.063	172000.0.063		80A @ $250V_{AC}$	330	0.1	0.025	
0.080	172000.0.080		80A @ $250V_{AC}$	490	0.1	0.04	
0.100	172000.0.100		80A @ $250V_{AC}$	330	0.1	0.07	
0.125	172000.0.125		80A @ $250V_{AC}$	230	0.1	0.018	
0.160	172000.0.160		80A @ $250V_{AC}$	220	0.1	0.036	
0.200	172000.0.200		80A @ $250V_{AC}$	190	0.2	0.07	
0.250	172000.0.250		80A @ $250V_{AC}$	150	0.2	0.19	
0.315	172000.0.315		80A @ $250V_{AC}$	140	0.2	0.35	
0.400	172000.0.400		80A @ $250V_{AC}$	130	0.2	0.49	
0.500	172000.0.500		80A @ $250V_{AC}$	120	0.2	0.9	
0.630	172000.0.630		80A @ $250V_{AC}$	110	0.2	1.4	
0.700	172000.0.700		80A @ $250V_{AC}$	140	0.3	1.6	
0.800	172000.0.800		80A @ $250V_{AC}$	100	0.3	3.2	
1	172000.1		80A @ $250V_{AC}$	90	0.3	6.5	
1.25	172000.1.25		80A @ $250V_{AC}$	80	0.3	5	
with Filler							
1.4	172100.1.4		1.0kA @ $250V_{AC}$	160	0.7	2.8	
1.5	172100.1.5		1.0kA @ $250V_{AC}$	160	0.8	3.0	
1.6	172100.1.6		1.0kA @ $250V_{AC}$	150	0.8	6.1	
2	172100.2		1.0kA @ $250V_{AC}$	130	0.8	5.2	
2.5	172100.2.5		1.0kA @ $250V_{AC}$	110	0.9	10	
3.15	172100.3.15		1.0kA @ $250V_{AC}$	100	1.0	20	
4	172100.4		1.0kA @ $250V_{AC}$	90	1.1	37	
5	172100.5		1.0kA @ $250V_{AC}$	90	1.3	72	
6.3	172100.6.3		1.0kA @ $250V_{AC}$	90	1.6	130	
8	172100.8		300A @ $250V_{AC}$	90	2.0	230	
10	172100.10		300A @ $250V_{AC}$	90	2.5	370	

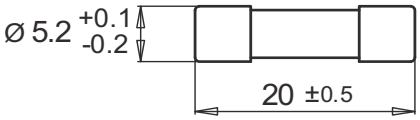
Weight (kg per 100)
0.14
Units per Package
10

IP - (1 000 pieces)
e.g. 172100.3.15IP

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
32mA - 1.2.5A	1h	–	–	10m	–	–	40ms	2s	5ms	90ms
1.6A - 10A	1h	–	–	30m	–	–	40ms	2s	5ms	20ms

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RoHS

Rated Voltage [Un] 250V$_{AC}$

Rated Breaking Test Voltage 250V$_{AC}$ Capacity 1.5kA

Class M

Standard(s) DIN 41571-2

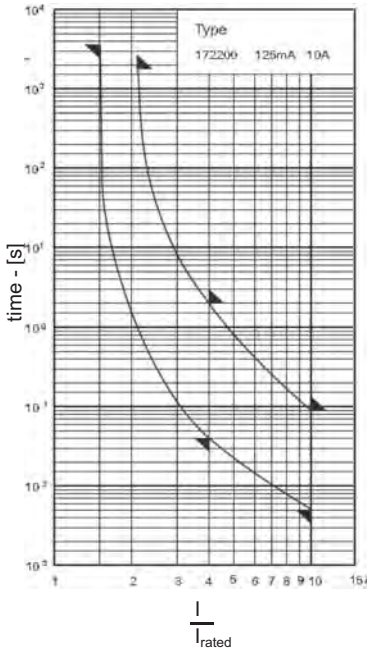
5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [W]	Pre-arcing I^2t [A^2s]	Approvals
0.125	172200.0.125		1.5kA @ 250V$_{AC}$	230	0.1	0.018	
0.160	172200.0.160		1.5kA @ 250V$_{AC}$	220	0.1	0.036	
0.200	172200.0.200		1.5kA @ 250V$_{AC}$	190	0.2	0.07	
0.250	172200.0.250		1.5kA @ 250V$_{AC}$	150	0.2	0.19	
0.315	172200.0.315		1.5kA @ 250V$_{AC}$	140	0.2	0.35	
0.400	172200.0.400		1.5kA @ 250V$_{AC}$	130	0.2	0.49	
0.500	172200.0.500		1.5kA @ 250V$_{AC}$	120	0.2	0.09	
0.630	172200.0.630		1.5kA @ 250V$_{AC}$	110	0.2	0.6	
0.800	172200.0.800		1.5kA @ 250V$_{AC}$	140	0.3	1.0	
1	172200.1		1.5kA @ 250V$_{AC}$	90	0.3	1.5	
1.25	172200.1.25		1.5kA @ 250V$_{AC}$	80	0.3	3.1	
1.6	172200.1.6		1.5kA @ 250V$_{AC}$	150	0.8	6.1	
2	172200.2		1.5kA @ 250V$_{AC}$	130	0.8	5.2	
2.5	172200.2.5		1.5kA @ 250V$_{AC}$	110	0.9	10	
3.15	172200.3.15		1.5kA @ 250V$_{AC}$	100	1.0	20	
4	172200.4		1.5kA @ 250V$_{AC}$	90	1.1	37	
5	172200.5		1.5kA @ 250V$_{AC}$	90	1.3	72	
6.3	172200.6.3		1.5kA @ 250V$_{AC}$	90	1.6	130	
8	172200.8		1.5kA @ 250V$_{AC}$	90	2.0	230	
10	172200.10		1.5kA @ 250V$_{AC}$	90	2.5	370	

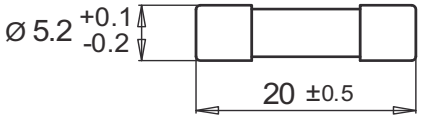
Weight (kg per 100)
0.14
Units per Package
10

IP - (1 000 pieces)
e.g. 172200.10IP

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
125mA - 10A	1h	—	—	30m	—	—	40ms	2s	5ms	90ms

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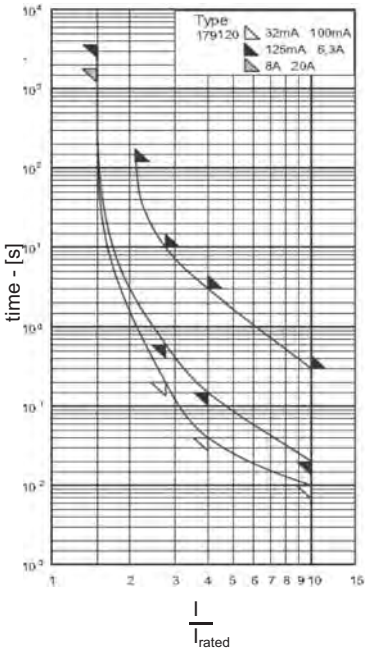
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	35A / 10I$_{rat}$	T	IEC 60127-2/3 EN 60127-2/3 VDE 0820 - 2/3

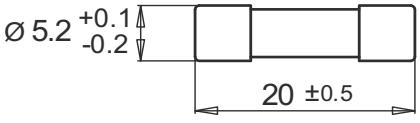
5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [W]	Pre-arcing I^2t [A^{2}s]	Approvals S - Semko V - VDE	
0.032	179120.0.032	✓	35A @ 250V$_{AC}$	3 000	0.2	0.01	S	V
0.040	179120.0.040	✓	35A @ 250V$_{AC}$	2 000	0.2	0.02	S	V
0.050	179120.0.050	✓	35A @ 250V$_{AC}$	1 500	0.2	0.035	S	V
0.063	179120.0.063	✓	35A @ 250V$_{AC}$	1 000	0.2	0.05	S	V
0.080	179120.0.080	✓	35A @ 250V$_{AC}$	800	0.2	0.12	S	V
0.100	179120.0.100	✓	35A @ 250V$_{AC}$	700	0.3	0.16	S	V
0.125	179120.0.125	✓	35A @ 250V$_{AC}$	600	0.3	0.24	S	V
0.160	179120.0.160	✓	35A @ 250V$_{AC}$	600	0.3	0.4	S	V
0.200	179120.0.200	✓	35A @ 250V$_{AC}$	500	0.3	0.7	S	V
0.250	179120.0.250	✓	35A @ 250V$_{AC}$	400	0.3	1.4	S	V
0.315	179120.0.315	✓	35A @ 250V$_{AC}$	140	0.2	0.35	S	V
0.400	179120.0.400	✓	35A @ 250V$_{AC}$	130	0.2	0.49	S	V
0.500	179120.0.500	✓	35A @ 250V$_{AC}$	120	0.2	0.9	S	V
0.630	179120.0.630	✓	35A @ 250V$_{AC}$	110	0.2	1.4	S	V
0.700	179120.0.700		35A @ 250V$_{AC}$	140	0.3	1.6		
0.800	179120.0.800	✓	35A @ 250V$_{AC}$	100	0.3	3.2	S	V
1	179120.1	✓	35A @ 250V$_{AC}$	90	0.3	6.5	S	V
1.25	179120.1.25	✓	35A @ 250V$_{AC}$	80	0.3	5.0	S	V
1.4	179120.1.4		35A @ 250V$_{AC}$	80	0.4	5.2		
1.5	179120.1.5		35A @ 250V$_{AC}$	80	0.4	8.5		
1.6	179120.1.6	✓	35A @ 250V$_{AC}$	80	0.4	10	S	V
2	179120.2	✓	35A @ 250V$_{AC}$	80	0.5	20	S	V
2.5	179120.2.5	✓	35A @ 250V$_{AC}$	80	0.6	26	S	V
3.15	179120.3.15	✓	35A @ 250V$_{AC}$	80	0.6	44	S	V
3.5	179120.3.5		35A @ 250V$_{AC}$	80	0.8	50		
4	179120.4	ü	40A @ 250V$_{AC}$	80	0.8	72	S	V
5	179120.5	ü	50A @ 250V$_{AC}$	80	1.2	130	S	V
6.3	179120.6.3	ü	63A @ 250V$_{AC}$	70	1.3	230	S	V
8	179120.8		80A @ 250V$_{AC}$	70	1.8	240		
10	179120.10		100A @ 250V$_{AC}$	70	2.4	380		
12.5	179120.12.5		125A @ 250V$_{AC}$	70	3.0	650		
16	179120.16		160A @ 250V$_{AC}$	70	3.2	1 300		
20	179120.20		200A @ 250V$_{AC}$	70	3.5	2 200		

Time-Current Characteristics



Weight (kg per 100)
0.14
Units per Package
10



Dimensions [mm]

FC - 1 000 pieces with color code
AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 179120.1.25IP

Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
32mA - 100mA	1h	–	–	2m	200ms	10s	40ms	3s	10ms	300ms
125mA - 6.3A	1h	–	–	2m	600ms	10s	150ms	3s	20ms	300ms
8A - 20A	30m	–	–	2m	600ms	10s	150ms	3s	20ms	300ms

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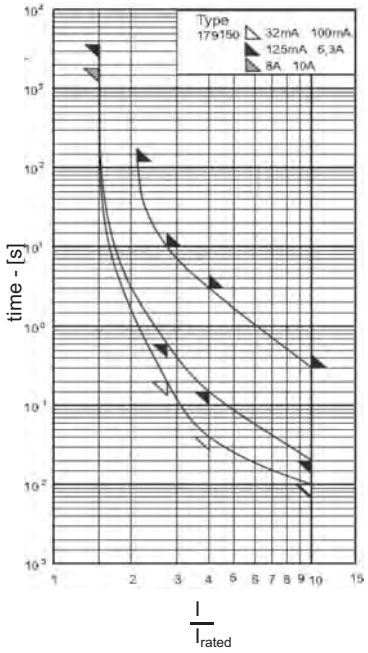
RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	150A	T	IEC 60127-2/6 EN 60127-2/6 VDE 0820 - 2/6

5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [W]	Pre-arcing I^2t [A^{2}s]	Approvals S - Semko V - VDE	
0.032	179150.0.032		150A @ 250V$_{AC}$	3 000	0.2	0.01		
0.040	179150.0.040		150A @ 250V$_{AC}$	2 000	0.2	0.02		
0.050	179150.0.050		150A @ 250V$_{AC}$	1 500	0.2	0.035		
0.063	179150.0.063		150A @ 250V$_{AC}$	1 000	0.2	0.05		
0.080	179150.0.080		150A @ 250V$_{AC}$	800	0.2	0.12		
0.100	179150.0.100		150A @ 250V$_{AC}$	700	0.3	0.16		
0.125	179150.0.125		150A @ 250V$_{AC}$	600	0.3	0.24		
0.160	179150.0.160		150A @ 250V$_{AC}$	600	0.3	0.4		
0.200	179150.0.200		150A @ 250V$_{AC}$	500	0.3	0.7		
0.250	179150.0.250		150A @ 250V$_{AC}$	400	0.3	1.4		
0.315	179150.0.315		150A @ 250V$_{AC}$	140	0.2	0.35		
0.400	179150.0.400		150A @ 250V$_{AC}$	130	0.2	0.49		
0.500	179150.0.500		150A @ 250V$_{AC}$	120	0.2	0.9	S	V
0.630	179150.0.630		150A @ 250V$_{AC}$	110	0.2	1.4	S	V
0.800	179150.0.800		150A @ 250V$_{AC}$	100	0.3	3.2	S	V
1	179150.1		150A @ 250V$_{AC}$	90	0.3	6.5	S	V
1.25	179150.1.25		150A @ 250V$_{AC}$	80	0.3	5.0	S	V
1.6	179150.1.6		150A @ 250V$_{AC}$	80	0.4	10	S	V
2	179150.2		150A @ 250V$_{AC}$	80	0.5	20	S	V
2.5	179150.2.5		150A @ 250V$_{AC}$	80	0.6	26	S	V
3.15	179150.3.15		150A @ 250V$_{AC}$	80	0.6	44	S	V
4	179150.4		150A @ 250V$_{AC}$	80	0.8	72	S	V
5	179150.5		150A @ 250V$_{AC}$	80	1.2	130		
6.3	179150.6.3		150A @ 250V$_{AC}$	70	1.3	230		
8	179150.8		150A @ 250V$_{AC}$	70	1.8	240		
10	179150.10		150A @ 250V$_{AC}$	70	2.4	380		

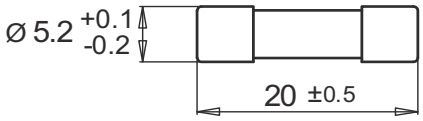
Time-Current Characteristics



Weight (kg per 100)
0.14
Units per Package
10

IP - (1 000 pieces)
e.g. 179150.0.63IP

Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
32mA - 100mA	1h	—	—	2m	200ms	10s	40ms	3s	10ms	300ms
125mA - 6.3A	1h	—	—	2m	600ms	10s	150ms	3s	20ms	300ms
8A - 100A	30m	—	—	2m	600ms	10s	150ms	3s	20ms	300ms

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E167295

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	1.5kA	T	IEC 60127-2/5 EN 60127-2/5 VDE 0820 - 2/5

5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [W]	Pre-arcing I^2t [A^{2}s]	Approvals S - Semko V - VDE
0.050	179200.0.050	✓	1.5kA @ 250V$_{AC}$ [1]	1 500	0.2	0.02	
0.063	179200.0.063	✓	1.5kA @ 250V$_{AC}$ [1]	1 000	0.2	0.05	
0.080	179200.0.080	✓	1.5kA @ 250V$_{AC}$ [1]	2 800	0.6	0.02	
0.100	179200.0.100	✓	1.5kA @ 250V$_{AC}$ [1]	2 300	0.6	0.02	
0.125	179200.0.125	✓	1.5kA @ 250V$_{AC}$ [1]	2 200	0.8	0.045	
0.160	179200.0.160	✓	1.5kA @ 250V$_{AC}$ [1]	2 100	0.9	0.08	
0.200	179200.0.200	✓	1.5kA @ 250V$_{AC}$ [1]	1 800	0.9	0.14	
0.250	179200.0.250	✓	1.5kA @ 250V$_{AC}$ [1]	1 500	1.0	0.25	
0.315	179200.0.315	✓	1.5kA @ 250V$_{AC}$ [1]	1 000	1.0	0.45	
0.400	179200.0.400	✓	1.5kA @ 250V$_{AC}$ [1]	850	1.0	0.8	
0.500	179200.0.500	✓	1.5kA @ 250V$_{AC}$ [1]	350	0.4	0.35	
0.630	179200.0.630	✓	1.5kA @ 250V$_{AC}$ [1]	300	0.4	0.6	
0.800	179200.0.800	✓	1.5kA @ 250V$_{AC}$ [1]	300	0.6	1.0	
1	179200.1 [3]	✓	1.5kA @ 250V$_{AC}$ [1]	250	0.8	1.5	S V
1.25	179200.1.25 [3]	✓	1.5kA @ 250V$_{AC}$ [1]	200	0.8	3.1	S V
1.6	179200.1.6 [3]	✓	1.5kA @ 250V$_{AC}$ [1]	150	0.8	6.1	S V
2	179200.2 [3]	✓	1.5kA @ 250V$_{AC}$ [1]	130	0.8	5.2	S V
2.5	179200.2.5 [3]	✓	1.5kA @ 250V$_{AC}$ [1]	110	0.9	10	S V
3.15	179200.3.15 [3]	✓	1.5kA @ 250V$_{AC}$ [1]	100	1.0	20	S V
4	179200.4 [3]	✓	1.5kA @ 250V$_{AC}$ [1]	90	1.1	37	S V
5	179200.5	✓	1.5kA @ 250V$_{AC}$ [1]	90	1.3	72	S V
6.3	179200.6.3	✓	1.5kA @ 250V$_{AC}$ [1]	90	1.6	130	S V
8	179200.8	✓	1.5kA @ 250V$_{AC}$ [1]	90	2.0	230	
10	179120.10	✓	1.5kA @ 250V$_{AC}$ [1]	90	2.5	370	
12.5	179200.12.5		1.5kA @ 250V$_{AC}$	70	3.1	630	
16	179200.16		1.5kA @ 250V$_{AC}$	70	3.9	1 500	

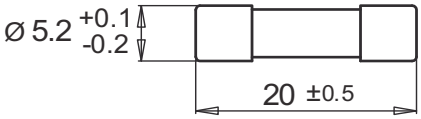
Weight (kg per 100) [3]
0.14
Units per Package
10

[3] UL Rec. 1.5kA@300V$_{DC}$, L/R = Res - 1A - 10A

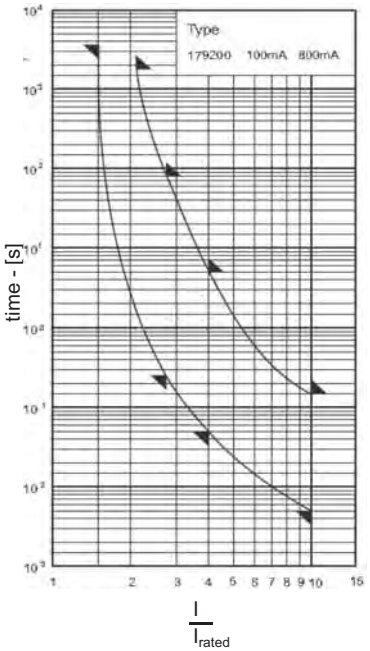
[1] cosφ = 0.7 - 0.8

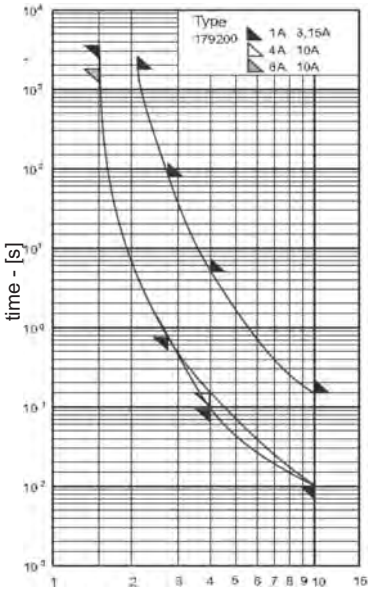
FC - 1 000 pieces with color code
AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 179200.3.15IP

Dimensions [mm]



Time-Current Characteristics





Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
100mA - 800mA	1h	—	—	30m	200ms	80s	50ms	5s	5s	150ms
1A - 3.15A	1h	—	—	30m	750ms	80s	95ms	5s	10ms	150ms
4A - 6.3A	1h	—	—	30m	750ms	80s	150ms	5s	10ms	150ms
8A - 16A	30m	—	—	30m	750ms	80s	150ms	5s	10ms	150ms

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E167295

RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	35A	T	IEC 60127-2/5 EN 60127-2/5 VDE 0820 - 2/5

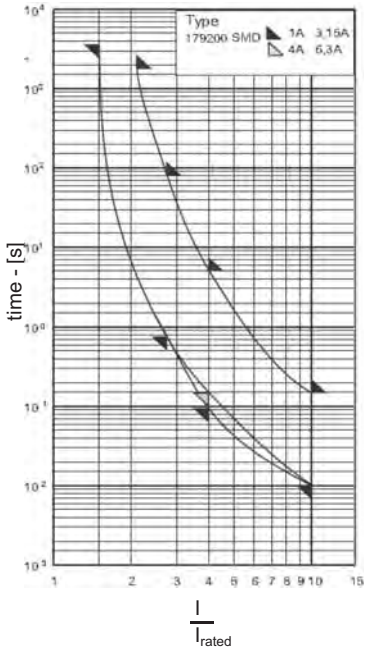
5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Gold Plated

Rated Current I_n [A]	Article Number	*UL* rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [W]	Pre-arcing I^2t [A^{2}s]
1	179200.1SMD	✓	1.5kA @ 250V$_{AC}$ [1]	250	0.8	1.5
1.25	179200.1.25SMD	✓	1.5kA @ 250V$_{AC}$ [1]	200	0.8	3.1
1.6	179200.1.6SMD	✓	1.5kA @ 250V$_{AC}$ [1]	150	0.8	6.1
2	179200.2SMD	✓	1.5kA @ 250V$_{AC}$ [1]	130	0.8	5.2
2.5	179200.2.5SMD	✓	1.5kA @ 250V$_{AC}$ [1]	110	0.9	10
3.15	179200.3.15SMD	✓	1.5kA @ 250V$_{AC}$ [1]	100	1.0	20
4	179200.4SMD	✓	1.5kA @ 250V$_{AC}$ [1]	90	1.1	37
5	179200.5SMD	✓	1.5kA @ 250V$_{AC}$ [1]	90	1.3	72
6.3	179200.6.3SMD	✓	1.5kA @ 250V$_{AC}$ [1]	90	1.6	130

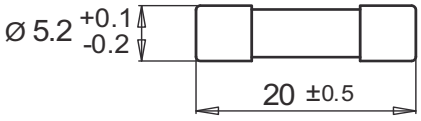
Weight (kg per 100)
Units per Package

[1] cosφ = 0.7 - 0.8

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1A - 3.15A	1h	—	—	30m	750ms	80s	95ms	5s	10ms	150ms
4A - 6.3A	1h	—	—	30m	750ms	80s	150ms	5s	10ms	150ms

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V$_{AC}$	250V$_{AC}$	300A	T	DIN 41571-3

5mmx20mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

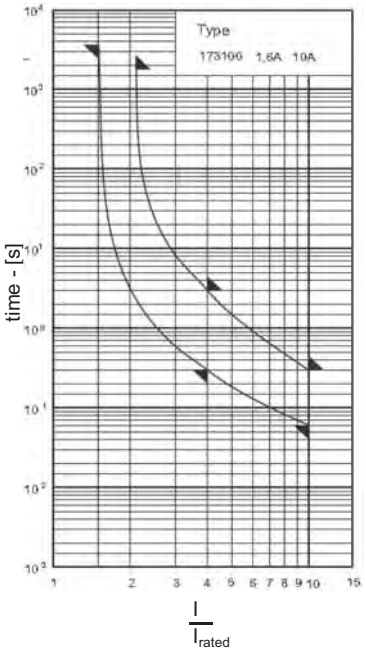
Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [W]	Pre-arcing I^2t [A^{2}s]	Approvals
1.6	173100.1.6		300A @ 250Vac	300[1]	0.8	16	
2	173100.2		300A @ 250Vac	190[1]	0.9	26	
2.5	173100.2.5		300A @ 250Vac	180[1]	1.1	45	
3.15	173100.3.15		300A @ 250Vac	140	1.3	72	
4	173100.4		300A @ 250Vac	135	1.4	130	
5	173100.5		300A @ 250Vac	130	1.2	150	
6.3	173100.6.3		300A @ 250Vac	125	1.3	240	
8	173100.8		300A @ 250Vac	120	1.6	390	
10	179120.10		300A @ 250Vac	115	1.9	620	
12.5	173100.12.5		300A @ 250V$_{AC}$	100	2.8	1 150	
15	173100.15		300A @ 250Vac	80	3.3	1 800	
16	173100.16		300A @ 250V$_{AC}$	80	3.8	1 800	

[1] Maximum according to EN 60127-2/5

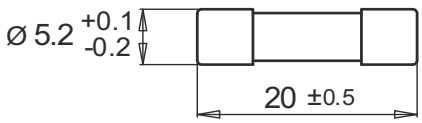
Weight (kg per 100)
0.13
Units per Package
100

IP - (1 000 pieces)
e.g. 173100.1.6IP

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1.6A - 16A	1h	—	—	30m	—	—	300ms	3s	60ms	300ms

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
250V_{AC}	250V_{AC}	35A / 100A	T/D	UL 248-14 CSA C22.2 - No 248.14

5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

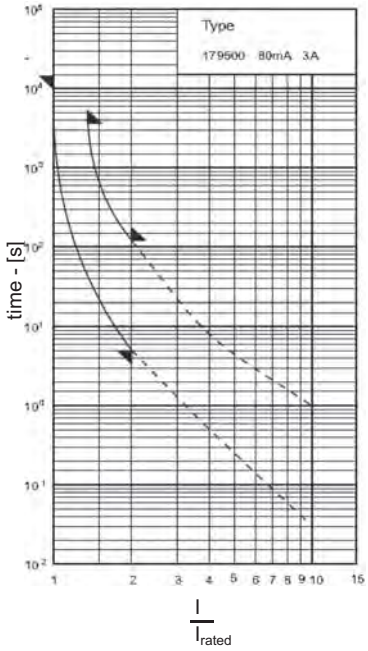
Rated Current I_n [A]	Article Number	UL	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.0I_n [W]	Pre-arcing I^2t [A^2s]	Approvals
0.080	179500.0.080	✓	35A @ 250V_{AC} [1]	2 800	0.3	0.024	
0.100	179500.0.100	✓	35A @ 250V_{AC} [1]	2 400	0.3	0.053	
0.125	179500.0.125	✓	35A @ 250V_{AC} [1]	2 100	0.3	0.08	
0.150	179500.0.150	✓	35A @ 250V_{AC} [1]	1 800	0.3	0.13	
0.200	179500.0.200	✓	35A @ 250V_{AC} [1]	1 300	0.3	0.24	
0.250	179500.0.250	✓	35A @ 250V_{AC} [1]	1 100	0.3	0.42	
0.300	179500.0.300	✓	35A @ 250V_{AC} [1]	1 050	0.4	0.8	
0.375	179500.0.375	✓	35A @ 250V_{AC} [1]	900	0.4	1.5	
0.400	179500.0.400	✓	35A @ 250V_{AC} [1]	850	0.4	1.6	
0.500	179500.0.500	✓	35A @ 250V_{AC} [1]	650	0.4	2.0	
0.630	179500.0.630	✓	35A @ 250V_{AC} [1]	550	0.4	3.1	
0.700	179500.0.700	✓	35A @ 250V_{AC} [1]	500	0.4	4.5	
0.750	179500.0.750	✓	35A @ 250V_{AC} [1]	450	0.4	5.5	
0.800	179500.0.800	✓	35A @ 250V_{AC} [1]	400	0.4	6.4	
1	179500.1	✓	35A @ 250V_{AC} [1]	350	0.4	12	
1.25	179500.1.25	✓	100A @ 250V_{AC} [2]	300	0.4	19	
1.5	179500.1.5	✓	100A @ 250V_{AC} [2]	280	0.5	25	
1.6	179500.1.6	✓	100A @ 250V_{AC} [2]	270	0.5	32	
2	179500.2	✓	100A @ 250V_{AC} [2]	235	0.5	55	
2.5	179500.2.5	✓	100A @ 250V_{AC} [2]	215	0.6	90	
3	179500.3	✓	100A @ 250V_{AC} [2]	200	0.6	160	

Weight (kg per 100)
0.1
Units per Package
10

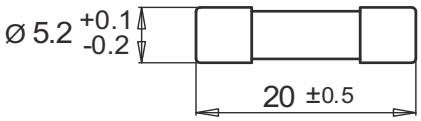
IP - (1 000 pieces)
e.g. 179500.1.6IP

[1] 10kA@125V_{AC}, 35A@250V_{AC} - cosφ = 0.7 -0.8
[2] 10kA@125VA$_{AC}$, 100A@250V_{AC} - cosφ = 0.7 -0.8

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.0I_n		1.35I_n		2.0I_n					
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
80mA - 3A	4h	—	—	1h	5s	120s	—	—	—	—

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G		Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
	RoHS	$250V_{AC}$	$250V_{AC}$	35A /10 I_{rat}	TT	

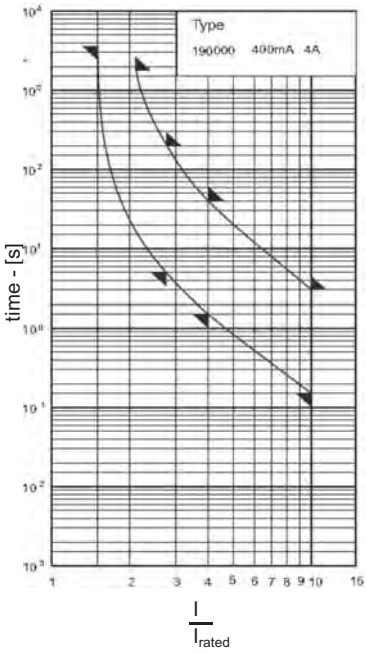
5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.0I_n [W]	Pre-arcing I^2t [A^2s]	Approvals
0.400	190000.0.400		35A @ $250V_{AC}$	500	0.3	2.5	
0.500	190000.0.500		35A @ $250V_{AC}$	450	0.3	4.6	
0.630	190000.0.630		35A @ $250V_{AC}$	400	0.3	10	
0.800	190000.0.800		35A @ $250V_{AC}$	300	0.4	15	
1	190000.1		35A @ $250V_{AC}$	250	0.4	26	
1.25	190000.1.25		35A @ $250V_{AC}$	200	0.4	37	
1.6	190000.1.6		35A @ $250V_{AC}$	200	0.5	45	
2	190000.2		35A @ $250V_{AC}$	200	0.6	72	
2.5	190000.2.5		35A @ $250V_{AC}$	150	0.6	130	
3.15	190000.3.15		35A @ $250V_{AC}$	150	0.6	230	
4	190000.4		40A @ $250V_{AC}$	100	0.8	370	

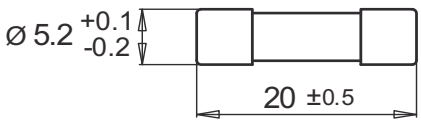
Weight (kg per 100)
0.1
Units per Package
10

IP - (1 000 pieces)
e.g. 190000.2IP

Time-Current Characteristics



Dimensions [mm]



	Fusing Time Limits									
Rated Current	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
400mA - 4A	1h	—	—	30m	5s	200s	1.5s	40s	150ms	3s

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	50A / 80A	F & M	

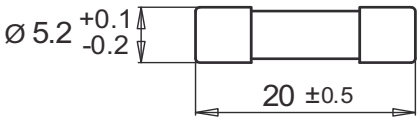
5mmx25mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	F Article Number		M Article Number		Rated Breaking Current [A]	Approvals
	without filling					
0.032	171525.0.032		172525.0.032		50A @ $250V_{AC}$	
0.050	171525.0.050		172525.0.050		50A @ $250V_{AC}$	
0.063	171525.0.063		172525.0.063		50A @ $250V_{AC}$	
0.080	171525.0.080		172525.0.080		50A @ $250V_{AC}$	
0.100	171525.0.100		172525.0.100		50A @ $250V_{AC}$	
0.125	171525.0.125		172525.0.125		50A @ $250V_{AC}$	
0.160	171525.0.160		172525.0.160		50A @ $250V_{AC}$	
0.200	171525.0.200		172525.0.200		50A @ $250V_{AC}$	
0.250	171525.0.250		172525.0.250		50A @ $250V_{AC}$	
0.315	171525.0.315		172525.0.315		50A @ $250V_{AC}$	
0.400	171525.0.400		172525.0.400		50A @ $250V_{AC}$	
0.500	171525.0.500		172525.0.500		50A @ $250V_{AC}$	
0.630	171525.0.630		172525.0.630		50A @ $250V_{AC}$	
0.800	171525.0.800		172525.0.800		50A @ $250V_{AC}$	
1	171525.1		172525.1		50A @ $250V_{AC}$	
1.25	171525.1.25		172525.1.25		50A @ $250V_{AC}$	
	with filling					
1.6	171525.1.6		172525.1.6		80A @ $250V_{AC}$	
2	171525.2		172525.2		80A @ $250V_{AC}$	
2.5	171525.2.5		172525.2.5		80A @ $250V_{AC}$	
3.15	171525.3.15		172525.3.15		80A @ $250V_{AC}$	
4	171525.4		172525.4		80A @ $250V_{AC}$	
5	171525.5		172525.5		80A @ $250V_{AC}$	
6.3	171525.6.3		172525.6.3		80A @ $250V_{AC}$	
8	171525.8		172525.8		80A @ $250V_{AC}$	
10	171525.10		171525.10		80A @ $250V_{AC}$	

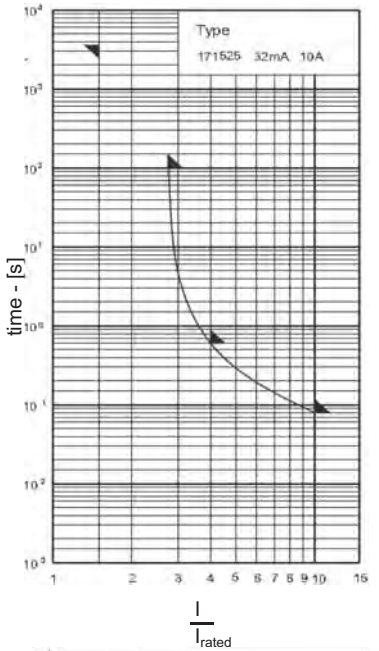
Weight (kg per 100)	
0.12	0.15

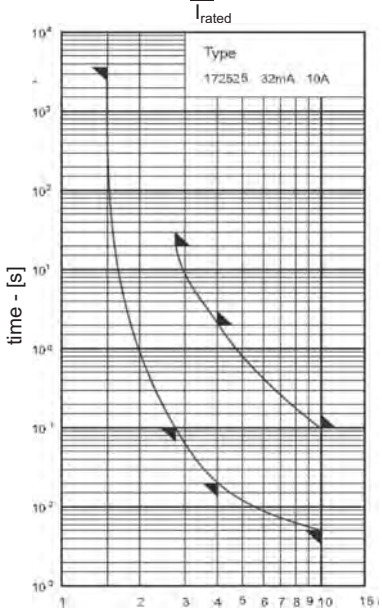
Units per Package
10

Dimensions [mm]



Time-Current Characteristics





	Rated Current	Fusing Time Limits									
		$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
171525	32mA - 10A	1h	–	–	–	–	100s	–	600ms	–	80ms
172525	32mA - 10A	1h	–	–	–	100s	20s	2s	40s	5ms	100ms

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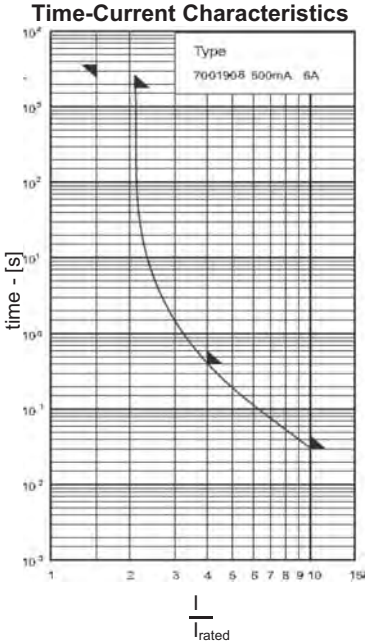
RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
60V$_{AC}$	60V$_{AC}$	1.5kA		DIN 41572

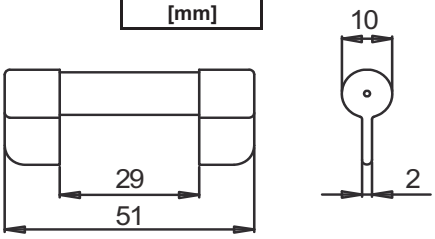
10mmx51mm - Glass Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation [W]	Pre-arcing I^2t [A^2s]	Approvals
0.500	7001908.0.500		1.5kA @ 60Vac	1 500		0.16	
0.800	7001908.0.800		1.5kA @ 60Vac	1 200		0.8	
1	7001908.1		1.5kA @ 60Vac	1 000		0.64	
1.6	7001908.1.6		1.5kA @ 60Vac	1 120		2.6	
2	7001908.2		1.5kA @ 60Vac	1 200		4.9	
2.5	7001908.2.5		1.5kA @ 60Vac	1 000		10	
3	7001908.3		1.5kA @ 60Vac	900		19	
4	7001908.4		1.5kA @ 60Vac	800		41	
6	7001908.6		1.5kA @ 60Vac	600		140	
	Weight (kg per 100)						
	Units per Package						

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		5I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
500mA - 6A	1h	—	—	30m	—	100s	—	400ms	—	30ms

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RoHS

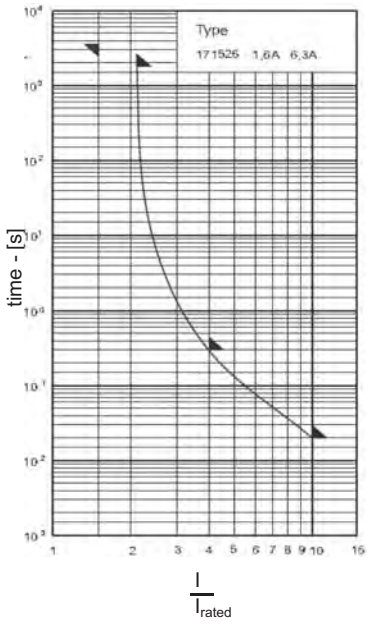
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	1.5kA	F	DIN 41576-1

5mmx25mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

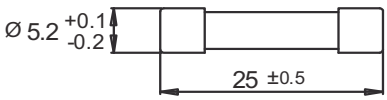
Rated Current I_n [A]	Article Number	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [W]	Pre-arcing I^2t [A^2s]	Color Code
1.6	171526.1.6	1.5kA @ $250V_{AC}$	640	0.9	2.3	Orange
2	171526.2	1.5kA @ $250V_{AC}$	420	1.1	2.4	Blue
2.5	171526.2.5	1.5kA @ $250V_{AC}$	320	1.2	4	Yellow
3.15	171526.3.15	1.5kA @ $250V_{AC}$	250	1.4	6.5	Black
4	171526.4	1.5kA @ $250V_{AC}$	200	1.7	16	Brown
5	171526.5	1.5kA @ $250V_{AC}$	180	2.1	33	White
6.3	171526.6.3	1.5kA @ $250V_{AC}$	170	2.5	63	Green
8	171526.8	1.5kA @ $250V_{AC}$	150	3.0	100	Grey
10	171526.10	1.5kA @ $250V_{AC}$	120	3.3	200	Red

Weight (kg per 100)
0.13
Units per Package
10

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1.6A - 10A	1h	—	—	30m	—	—	—	400ms	—	20ms

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RoHS

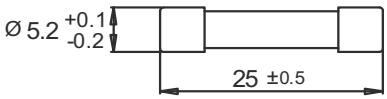
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	80A / 1.5kA	M	DIN 41576-2

5mmx25mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

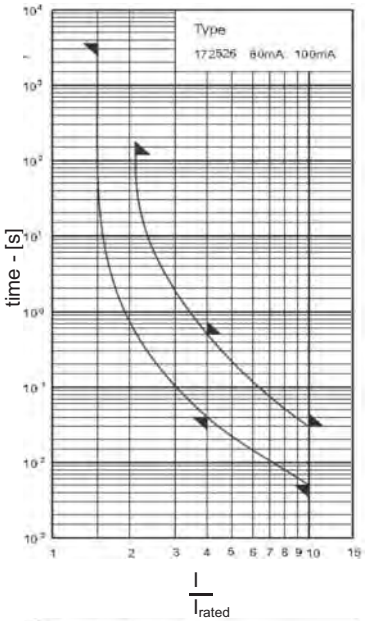
Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [W]	Pre-arcing I^2t [A^2s]	Color Code
	without filler						
0.050	172526.0.050		80A @ $250V_{AC}$	520	0.1	0.005	White
0.063	172526.0.063		80A @ $250V_{AC}$	520	0.1	0.007	Green
0.080	172526.0.080		80A @ $250V_{AC}$	520	0.1	0.009	Grey
0.100	172526.0.100		80A @ $250V_{AC}$	500	0.1	0.022	Red
0.125	172526.0.125		80A @ $250V_{AC}$	500	0.1	0.041	Violet
0.160	172526.0.160		80A @ $250V_{AC}$	400	0.1	0.1	Orange
0.200	172526.0.200		80A @ $250V_{AC}$	400	0.2	0.2	Blue
0.250	172526.0.250		1.5kA @ $250V_{AC}$	375	0.2	0.22	Yellow
0.315	172526.0.315		1.5kA @ $250V_{AC}$	410	0.2	0.31	Black
0.400	172526.0.400		1.5kA @ $250V_{AC}$	280	0.2	0.56	Brown
0.500	172526.0.500		1.5kA @ $250V_{AC}$	250	0.2	1.1	White
0.630	172526.0.630		1.5kA @ $250V_{AC}$	220	0.2	0.7	Green
0.800	172526.0.800		1.5kA @ $250V_{AC}$	400	0.2	1.6	Grey
1	172526.1		1.5kA @ $250V_{AC}$	350	0.2	3.5	Red
1.25	172526.1.25		1.5kA @ $250V_{AC}$	315	0.4	5.5	Violet
	with filler						
1.6	172526.1.6		1.5kA @ $250V_{AC}$	480	0.6	5 .6	Orange
2	172526.2		1.5kA @ $250V_{AC}$	360	0.7	9.6	Blue
2.5	172526.2.5		1.5kA @ $250V_{AC}$	300	0.9	15	Yellow
3.15	172526.3.15		1.5kA @ $250V_{AC}$	250	1.1	24	Black
4	172526.4		1.5kA @ $250V_{AC}$	180	1.3	40	Brown
5	172526.5		1.5kA @ $250V_{AC}$	180	1.5	87	White
6.3	172526.6.3		1.5kA @ $250V_{AC}$	160	1.8	170	Green
8	172526.8		1.5kA @ $250V_{AC}$	150	3	190	Grey
10	172526.10		1.5kA @ $250V_{AC}$	150	3.2	370	Red

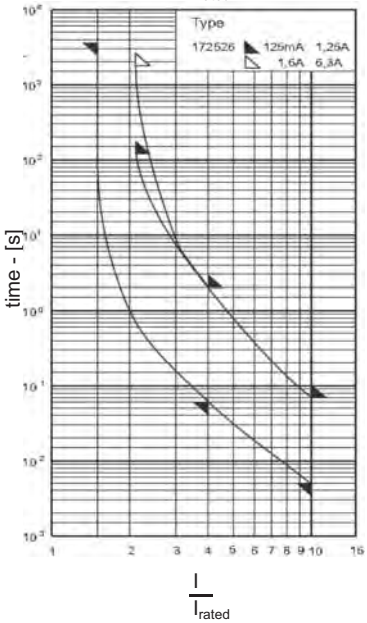
Weight (kg per 100)
0.15
Units per Package
10

Dimensions [mm]



Time-Current Characteristics





Rated Current	Fusing Time Limits									
	$1.5I_n$		$2.1I_n$		$2.75I_n$		$5I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1.6A - 6.3A	1h	–	–	2m	–	–	40s	500ms	5ms	30ms
1.6A - 6.3A	1h	–	–	3m	–	–	60ms	2s	5ms	70ms
1.6A - 6.3A	1h	–	–	30m	–	–	60ms	2s	5ms	70ms

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RoHS

Rated Voltage [Un] 400V_{AC}

Rated Breaking Test Voltage 500V_{AC} Capacity 70kA

Class F

Standard(s) Lloyds approved

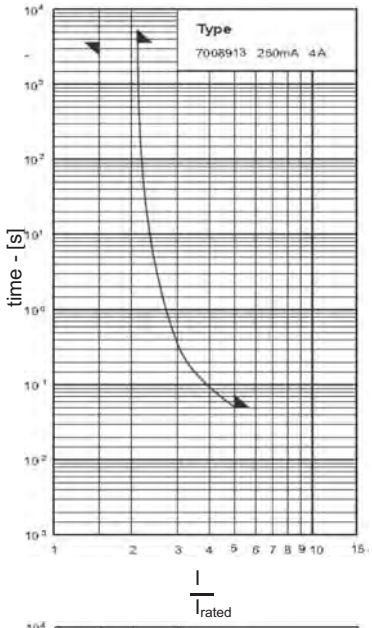
5mmx25mm - Ceramic Tube w/Indicator, Contacts - Brass, Nickel Plated

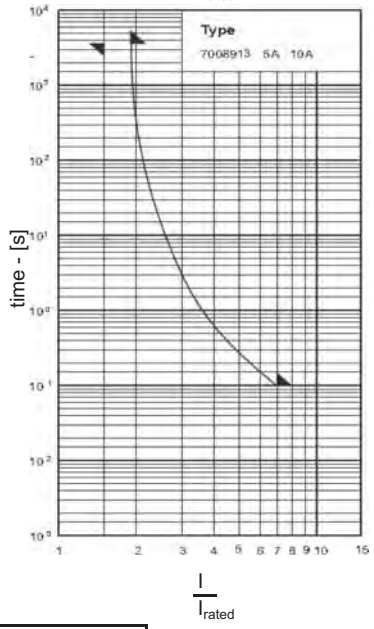
Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [W]	Pre-arcing I^2t [A^2s]	Color Code
0.250	7008913.0.250		70kA @ 500V_{AC}[1]	950	0.3	0.05	Yellow
0.315	7008913.0.315		70kA @ 500V_{AC}[1]	900	0.5	0.05	Black
0.400	7008913.0.400		70kA @ 500V_{AC}[1]	800	0.5	0.15	Brown
0.500	7008913.0.500		70kA @ 500V_{AC}[1]	700	0.6	0.15	White
0.800	7008913.0.800		70kA @ 500V_{AC}[1]	300	0.3	0.25	Grey
1	7008913.1		70kA @ 500V_{AC}[1]	250	0.3	0.5	Red
1.25	7008913.1.25		70kA @ 500V_{AC}[1]	400	0.4	1.1	Violet
1.6	7008913.1.6		70kA @ 500V_{AC}[1]	400	0.9	2.3	Orange
2	7008913.2		70kA @ 500V_{AC}[1]	350	1.1	2.4	Blue
2.5	7008913.2.5		70kA @ 500V_{AC}[1]	300	1.2	4	Yellow
3.15	7008913.3.15		70kA @ 500V_{AC}[1]	200	1.4	6.5	Black
4	7008913.4		70kA @ 500V_{AC}[1]	200	1.7	16	Brown
5	7008913.5		70kA @ 500V_{AC}[1]	200	2.1	33	White
6.3	7008913.6.3		70kA @ 500V_{AC}[1]	150	2.5	63	Green
8	70089 3.8		70kA @ 500V_{AC}[1]	150	3.0	100	Grey
10	7008913.10		70kA @ 500V_{AC}[1]	150	3.3	200	Red

Weight (kg per 100)	[1] 10kA @ 250V_{DC}
0.13	

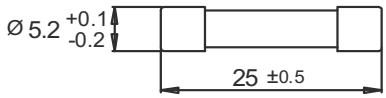
Units per Package
10

Time-Current Characteristics





Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.5I_n		1.9I_n		2.1I_n		5I_n		7I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
500mA - 4A	1h	–	–	–	–	1h	–	50ms	–	–
5A - 10A	1h	–	–	1h	–	–	–	–	–	100ms

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RoHS

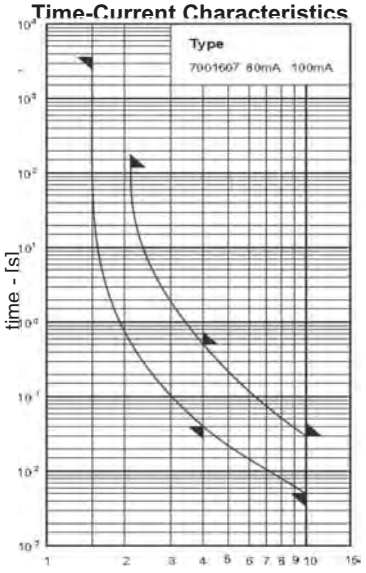
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	80A / 1.5kA	M	DIN 41577 T.2

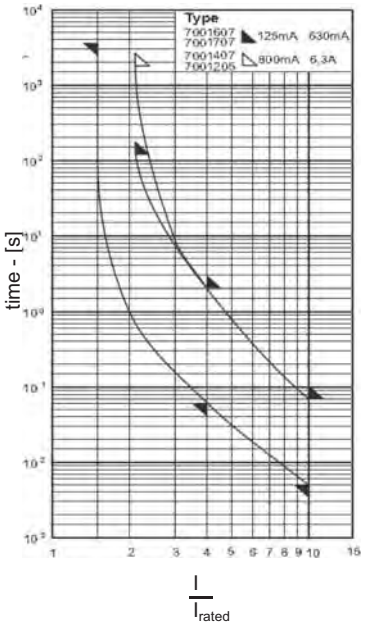
5mmx"L"mm - Ceramic Tube w/Indicator, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [mw]	Pre-arcing I^2t [A^2s]	Length "L" [mm]
0.080	7001607.0.080		80A @ $250V_{AC}$	520	0.1	0.017	25
0.100	7001607.0.100		80A @ $250V_{AC}$	500	0.1	0.022	
0.125	7001607.0.125		80A @ $250V_{AC}$	500	0.1	0.041	
0.160	7001607.0.160		80A @ $250V_{AC}$	400	0.1	0.1	
0.200	7001607.0.200		80A @ $250V_{AC}$	400	0.2	0.2	
0.250	7001707.0.250		1.5kA @ $250V_{AC}$	500	0.2	0.22	25
0.315	7001707.0.315		1.5kA @ $250V_{AC}$	470	0.2	0.31	
0.400	7001707.0.400		1.5kA @ $250V_{AC}$	400	0.2	0.56	
0.500	7001707.0.500		1.5kA @ $250V_{AC}$	400	0.2	1.1	
0.630	7001707.0.630		1.5kA @ $250V_{AC}$	380	0.2	0.7	
0.8	7001407.0.800		1.5kA @ $250V_{AC}$	400	0.3	1.6	20
1	7001407.1		1.5kA @ $250V_{AC}$	350	0.3	3.5	
1.25	7001407.1.25		1.5kA @ $250V_{AC}$	310	0.3	5.5	
1.6	7001407.1.6		1.5kA @ $250V_{AC}$	480	1.0	5.6	
2	7001407.2		1.5kA @ $250V_{AC}$	360	1.0	9.6	
2.5	7001407.2.5		1.5kA @ $250V_{AC}$	300	1.1	15	
3.15	7001407.3.15		1.5kA @ $250V_{AC}$	250	1.2	24	
4	7001407.4		1.5kA @ $250V_{AC}$	180	1.3	40	
6.3	7001205.6.3		1.5kA @ $250V_{AC}$	160	1.8	170	20

Weight (kg per 100)
0.15
Units per Package
10

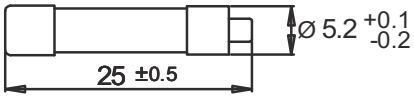
Time-Current Characteristics





Dimensions [mm]

7001607 / 7001707



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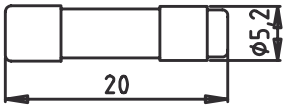

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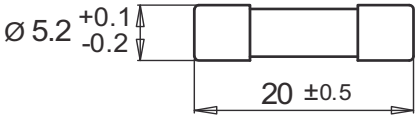

Rated Current	Fusing Time Limits									
	$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
80mA - 100mA	1h	–	–	2m	–	–	40ms	500ms	5ms	30ms
125mA - 630mA	1h	–	–	2m	–	–	60ms	2s	5ms	70ms
800mA - 6.3A	1h	–	–	30m	–	–	60ms	2s	5ms	70ms

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RoHS

Rated Voltage [Un] 500V$_{AC}$

Rated Breaking Test Voltage 500V$_{AC}$ Capacity 50A

Class F/M

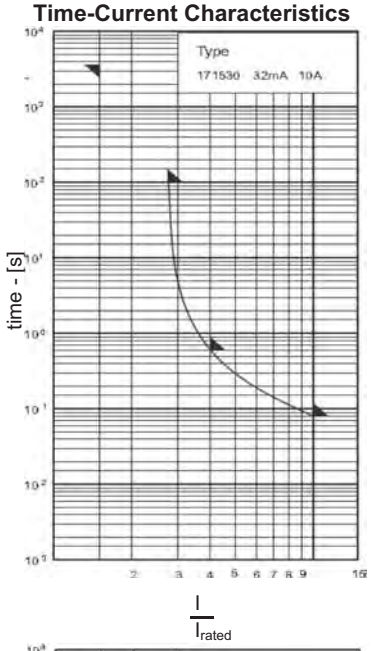
Standard(s)

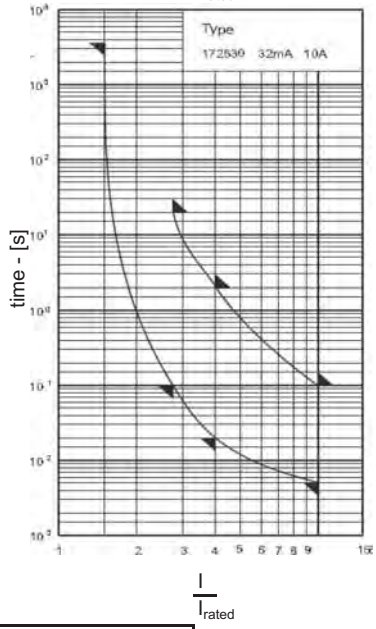
5mmx30mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	F Article Number		M Article Number		Rated Breaking Current [A]
	without filling				
0.032	171530.0.032		172530.0.032		50A @ 500V$_{AC}$
0.050	171530.0.050		172530.0.050		50A @ 500V$_{AC}$
0.063	171530.0.063		172530.0.063		50A @ 500V$_{AC}$
0.080	171530.0.080		172530.0.080		50A @ 500V$_{AC}$
0.100	171530.0.100		172530.0.100		50A @ 500V$_{AC}$
0.125	171530.0.125		172530.0.125		50A @ 500V$_{AC}$
0.160	171530.0.160		172530.0.160		50A @ 500V$_{AC}$
0.200	171530.0.200		172530.0.200		50A @ 500V$_{AC}$
0.250	171530.0.250		172530.0.250		50A @ 500V$_{AC}$
0.315	171530.0.315		172530.0.315		50A @ 500V$_{AC}$
0.400	171530.0.400		172530.0.400		50A @ 500V$_{AC}$
0.500	171530.0.500		172530.0.500		50A @ 500V$_{AC}$
0.630	171530.0.630		172530.0.630		50A @ 500V$_{AC}$
0.800	171530.0.800		172530.0.800		50A @ 500V$_{AC}$
1	171530.1		172530.1		50A @ 500V$_{AC}$
1.25	171530.1.25		172530.1.25		50A @ 500V$_{AC}$
	with filling				
1.6	171530.1.6		172530.1.6		80A @ 500V$_{AC}$
2	171530.2		172530.2		80A @ 500V$_{AC}$
2.5	171530.2.5		172530.2.5		80A @ 500V$_{AC}$
3.15	171530.3.15		172530.3.15		80A @ 500V$_{AC}$
4	171530.4		172530.4		80A @ 500V$_{AC}$
5	171530.5		172530.5		80A @ 500V$_{AC}$
6.3	171530.6.3		172530.6.3		80A @ 500V$_{AC}$
8	171530.8		172530.8		80A @ 500V$_{AC}$
10	171530.10		171530.10		80A @ 500V$_{AC}$

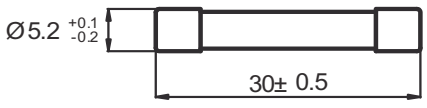
Weight (kg per 100)
0.12
Units per Package
10

Time-Current Characteristics





Dimensions [mm]



	Rated Current	Fusing Time Limits									
		1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
171530	32mA - 10A	1h	—	—	—	—	100ms	—	600ms	—	80ms
172530	32mA - 10A	1h	—	—	—	50ms	30s	20ms	2s	5ms	100ms

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$700V_{AC}$	$700V_{AC}$	50kA	FF	

6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1I_n/1.2I_n$ [W]	Pre-arcing I^2t [A^2s]
0.100	7012540.0.100	✓	50kA @ $700V_{AC}$ [1]	2 500	0.3	0.0009
0.125	7012540.0.125	✓	50kA @ $700V_{AC}$ [1]	2 200	0.3	0.0017
0.160	7012540.0.160	✓	50kA @ $700V_{AC}$ [1]	2 000	0.4	0.004
0.200	7012540.0.200	✓	50kA @ $700V_{AC}$ [1]	900	0.2	0.01
0.250	7012540.0.250	✓	50kA @ $700V_{AC}$ [1]	800	0.2	0.02
0.315	7012540.0.315	✓	50kA @ $700V_{AC}$ [1]	700	0.3	0.04
0.400	7012540.0.400	✓	50kA @ $700V_{AC}$ [1]	650	0.3	0.07
0.500	7012540.0.500	✓	50kA @ $700V_{AC}$ [1]	650	0.4	0.15
0.630	7012540.0.630	✓	50kA @ $700V_{AC}$ [1]	650	0.5	0.15
0.800	7012540.0.800	✓	50kA @ $700V_{AC}$ [1]	600	0.5	0.32
1	7012540.1	✓	50kA @ $700V_{AC}$ [1]	750	0.8	0.32
1.25	7012540.1.25	✓	50kA @ $700V_{AC}$ [1]	700	0.9	0.20
1.6	7012540.1.6	✓	50kA @ $700V_{AC}$ [1]	650	1.1	0.31
2	7012540.2	✓	50kA @ $700V_{AC}$ [1]	650	1.4	0.64
2.5	7012540.2.5	✓	50kA @ $600V_{AC}$	550	1.4	1.2
3.15	7012540.3.15	✓	50kA @ $600V_{AC}$	500	1.6	2.0
4	7012540.4	✓	50kA @ $600V_{AC}$	450	1.8	5.0
5	7012540.5	✓	50kA @ $500V_{AC}$	400	2.0	10
6.3	7012540.6.3	✓	50kA @ $600V_{AC}$	400	4	3.0
8	7012540.8	✓	50kA @ $600V_{AC}$	350	4.5	6.5
10	7012540.10	✓	50kA @ $600V_{AC}$	350	5	12
12.5	7012540.12.5	✓	50kA @ $500V_{AC}$	300	7	18
16	7012540.16	✓	50kA @ $500V_{AC}$	300	9	31
20	7012540.20	✓	50kA @ $500V_{AC}$	300	11	46
25	7012540.25		50kA @ $500V_{AC}$	230	11	87

0

Weight (kg per 100)
0.24

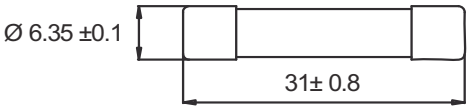
Units per Package
10

IP - (1 000 pieces)
e.g. 70 125 40.16IP

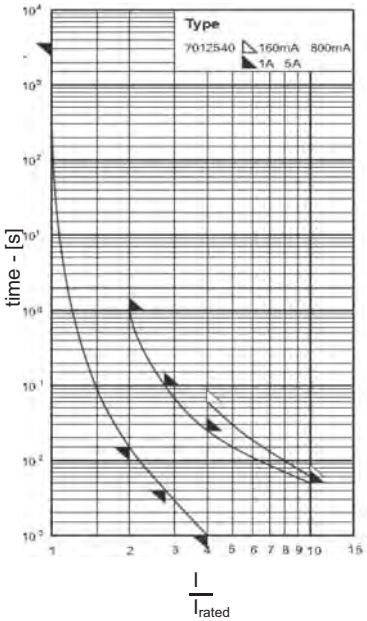
[1] 20kA @ $500V_{DC}$

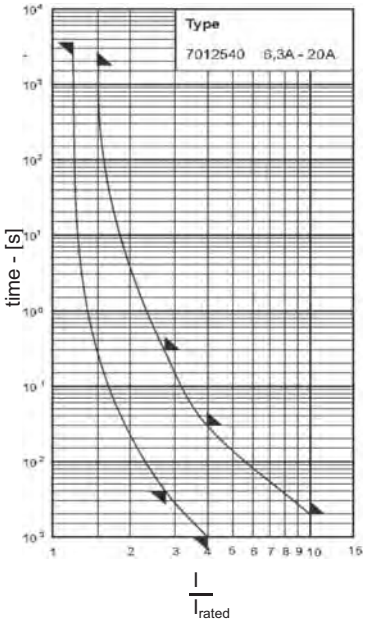
For 6.3A and higher, consideration should be given to heat dissipation

Dimensions [mm]



Time-Current Characteristics





	Fusing Time Limits									
Rated Current	$1I_n$		$1.2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
160mA - 800mA	1h	–	–	–	–	–	–	60ms	–	6ms
1A - 5A	1h	–	–	–	4ms	150s	1ms	25ms	–	5ms
6.3A - 20A	–	–	1h	–	4ms	300s	1ms	30ms	–	2ms

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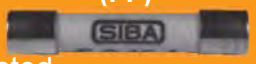
E167295

RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$1000V_{AC}$	$1000V_{AC}$	30kA	aR (FF)	



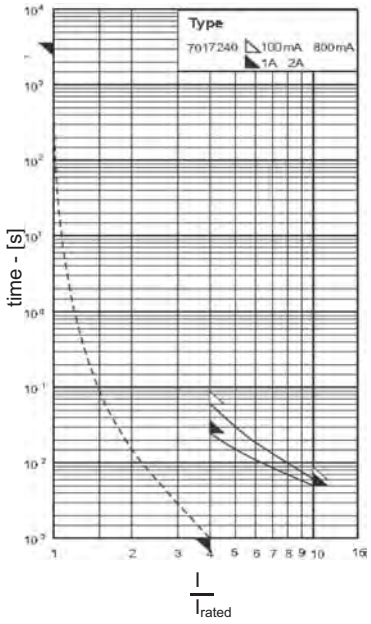
6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.0I_n$ [W]	Pre-arcing I^2t [A^2s]
0.100	7017240.0.100	✓	30kA @ $1000V_{AC/DC}$	2 500	0.3	0.0009
0.125	7017240.0.125	✓	30kA @ $1000V_{AC/DC}$	2 200	0.3	0.0017
0.160	7017240.0.160	✓	30kA @ $1000V_{AC/DC}$	2 000	0.4	0.004
0.200	7017240.0.200	✓	30kA @ $1000V_{AC/DC}$	900	0.2	0.01
0.250	7017240.0.250	✓	30kA @ $1000V_{AC/DC}$	800	0.2	0.02
0.315	7017240.0.315	✓	30kA @ $1000V_{AC/DC}$	700	0.3	0.04
0.400	7017240.0.400	✓	30kA @ $1000V_{AC/DC}$	650	0.3	0.07
0.500	7017240.0.500	✓	30kA @ $1000V_{AC/DC}$	650	0.4	0.12
0.630	7017240.0.630	✓	30kA @ $1000V_{AC/DC}$	650	0.5	0.15
0.800	7017240.0.800	✓	30kA @ $1000V_{AC/DC}$	600	0.5	0.23
1	7017240.1	✓	30kA @ $1000V_{AC/DC}$	750	0.8	0.32
1.6	7017240.1.6	✓	30kA @ $1000V_{AC/DC}$	650	1.1	0.31
2	7017240.2	✓	30kA @ $1000V_{DC}$	650	1.4	0.64

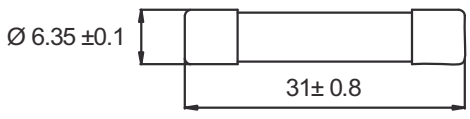
Weight (kg per 100)
Units per Package

IP - (1 000 pieces)
e.g. 70 172 40.1.6IP

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	$1I_n$		$1.2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
100mA - 800mA	1h	–	–	–	–	–	–	60ms	–	6ms
1A - 2A	1h	–	–	–	–	–	1ms	25ms	–	6ms

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Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
400V$_{AC}$	400V$_{AC}$	120kA	gRL	IEC 60269-4 VDE 0636 Part4

E180726

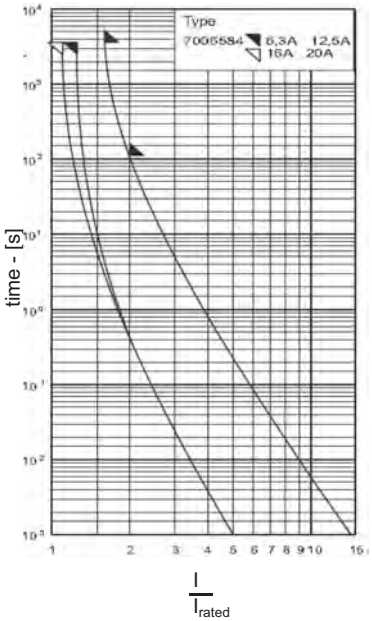
6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	*UL* rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.0I_n [w]	Pre-arcing I^2t [A^{2}s]	Total I^2t [A^{2}s]
6.3	70065 4.6.3	✓	120kA @ 400V$_{AC}$	190	1.2	1.8	11
8	7006584.8	✓	120kA @ 400V$_{AC}$	190	1.5	3.0	18
10	7006584.10	✓	120kA @ 400V$_{AC}$	180	1.8	5.1	31
12.5	7006584.12.5	✓	120kA @ 400V$_{AC}$	150	1.9	12	69
16	7006584.16	✓	120kA @ 400V$_{AC}$	150	2.3	20	120
20	7006584.20	✓	120kA @ 400V$_{AC}$	160	3.2	35	210

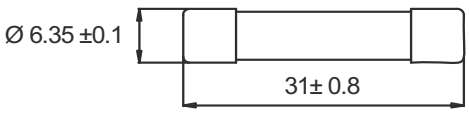
Weight (kg per 100)
Units per Package

IP - (1 000 pieces)
e.g. 70 065 84.12.5IP

Time-Current Characteristics



Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.1I_n		1.25I_n		1.6I_n		2.0I_n			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6.3A - 12.5A	—	—	1h	—	—	1h	—	120s	—	—
16A - 20A	1h	—	—	—	—	1h	1ms	120s	—	—

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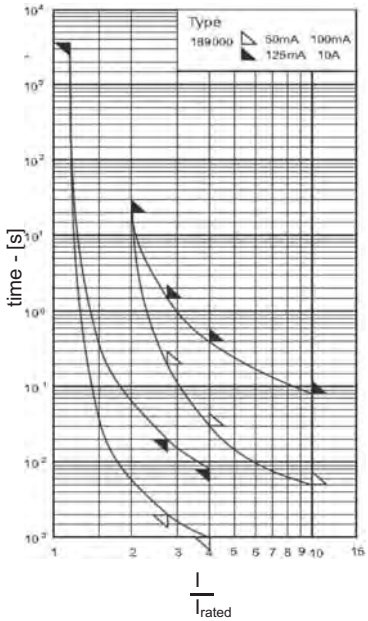
RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	35A	F	IEC 60269-2/4

6.3mmx32mm - Glass Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.15I_n$ [W]	Pre-arcing I^2t [A^2s]
0.050	189000.0.050		35A @ $250V_{AC}$	9 600	0.7	0.0003
0.063	189000.0.063		35A @ $250V_{AC}$	6 000	0.5	0.0005
0.080	189000.0.080		35A @ $250V_{AC}$	5 000	0.6	0.001
0.100	189000.0.100		35A @ $250V_{AC}$	4 500	0.7	0.0014
0.125	189000.0.125		35A @ $250V_{AC}$	4 000	0.7	0.0034
0.160	189000.0.160		35A @ $250V_{AC}$	3 500	0.8	0.007
0.200	189000.0.200		35A @ $250V_{AC}$	650	0.2	0.02
0.250	189000.0.250		35A @ $250V_{AC}$	650	0.3	0.04
0.315	189000.0.315		35A @ $250V_{AC}$	600	0.3	0.08
0.400	189000.0.400		35A @ $250V_{AC}$	500	0.3	0.15
0.500	189000.0.500		35A @ $250V_{AC}$	450	0.3	0.32
0.630	189000.0.630		35A @ $250V_{AC}$	400	0.4	0.26
0.800	189000.0.800		35A @ $250V_{AC}$	350	0.4	0.57
1	189000.1		35A @ $250V_{AC}$	300	0.5	1.1
1.25	189000.1.25		35A @ $250V_{AC}$	300	0.6	2
1.6	189000.1.6		35A @ $250V_{AC}$	300	0.7	3.3
2	189000.2		35A @ $250V_{AC}$	250	0.8	6.2
2.5	189000.2.5		35A @ $250V_{AC}$	220	0.9	13
3.15	189000.3.15		35A @ $250V_{AC}$	200	1.1	24
4	189000.4		40A @ $250V_{AC}$	200	1.3	40
5	189000.5		50A @ $250V_{AC}$	180	1.4	80
6.3	189000.6.3		63A @ $250V_{AC}$	170	1.6	150
8	189000.8		80A @ $250V_{AC}$	160	2.0	240
10	189000.10		100A @ $250V_{AC}$	150	2.3	500
12.5	189000.12.5		125A @ $250V_{AC}$	140	2.5	650
16	189000.16		160A @ $250V_{AC}$	130	2.8	1 250
20	189000.20		200A @ $250V_{AC}$	130	4.0	1 600

Time-Current Characteristics

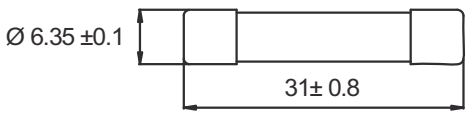


Weight (kg per 100)
Units per Package
10

For 6.3A and higher, consideration should be given to heat dissipation

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189000.3.15IP

Dimensions [mm]



	Fusing Time Limits									
Rated Current	$1.5I_n$		$2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6.3A - 12.5A	—	—	—	20s	2s	200ms	1ms	30s	—	5ms
16A - 20A	—	—	—	20s	20ms	1.5s	8ms	400ms	—	80ms

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Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$500V_{AC}$	$500V_{AC}$	50kA	F	
$440V_{DC}$	$440V_{AC}$	1.5kA		

E167295

6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Dissipation @ $1.5I_n$ [W]	Pre-arcing I^2t [A^2s]
0.160	189020.0.160	✓	50kA @ $500V_{AC}$ [1]	7 000	2.5	0.0015
0.200	189020.0.200	✓	50kA @ $500V_{AC}$ [1]	6 500	2.9	0.0035
0.250	189020.0.250	✓	50kA @ $500V_{AC}$ [1]	6 000	3.4	0.0085
0.315	189020.0.315	✓	50kA @ $500V_{AC}$ [1]	1 000	0.9	0.036
0.400	189020.0.400	✓	50kA @ $500V_{AC}$ [1]	900	1.0	0.07
0.500	189020.0.500	✓	50kA @ $500V_{AC}$ [1]	850	1.1	0.19
0.630	189020.0.630	✓	50kA @ $500V_{AC}$ [1]	700	1.3	0.35
0.800	189020.0.800	✓	50kA @ $500V_{AC}$ [1]	600	1.4	0.49
1	189020.1	✓	50kA @ $500V_{AC}$ [1]	400	1.2	0.4
1.25	189020.1.25	✓	50kA @ $500V_{AC}$ [1]	300	1.3	0.8
1.6	189020.1.6	✓	50kA @ $500V_{AC}$ [1]	300	1.4	1.5
2	189020.2	✓	50kA @ $500V_{AC}$ [1]	280	1.6	2.5
2.5	189020.2.5	✓	50kA @ $500V_{AC}$ [1]	260	1.8	5
3.15	189020.3.15	✓	50kA @ $500V_{AC}$ [1]	240	2.3	9
4	189020.4	✓	50kA @ $500V_{AC}$ [1]	220	2.6	18
5	189020.5	✓	50kA @ $500V_{AC}$ [1]	190	2.9	40
6.3	189020.6.3	✓	50kA @ $500V_{AC}$ [1]	170	3.2	80
8	189020.8		1.5kA @ $500V_{AC}$ [2]	160	3.7	150
10	189020.10		1.5kA @ $500V_{AC}$ [2]	150	4.0	240
12.5	189020.12.5		1.5kA @ $500V_{AC}$ [2]	140	5.5	500
16	189020.16		1.5kA @ $500V_{AC}$ [2]	130	6.5	920
20	189020.20		1.5kA @ $440V_{AC}$ [2]	110	8.4	1 500
25	189020.25		1.5kA @ $440V_{AC}$ [2]	110	11	3 100

Weight (kg per 100)
Units per Package
10

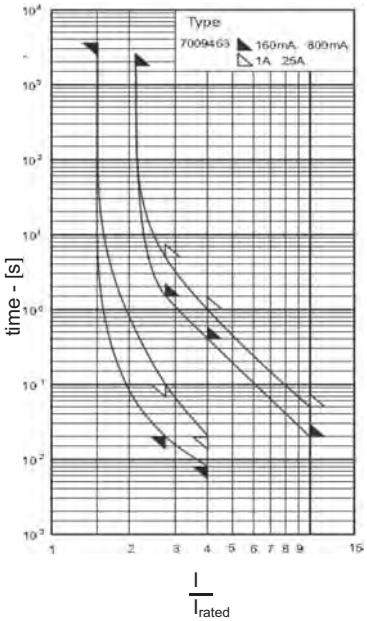
[1] cosφ = 0.3, 1.5kA @ $450V_{DC}$, resistive

[2] cosφ = 1, 1.5kA @ $125V_{DC}$

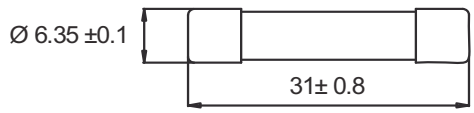
For 6.3A and higher, consideration should be given to heat dissipation

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189020.3.15AK

Time-Current Characteristics



Dimensions [mm]



SMD version available 1A - 5A

	Fusing Time Limits									
Rated Current	$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
160mA - 800mA	1h	—	—	30m	20s	1.5s	8ms	400ms	—	20ms
1A - 25A	1h	—	—	30m	100ms	5s	20ms	1s	—	50ms

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G		Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
	RoHS	600V_{AC}	500V_{AC}	50kA	F	

6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

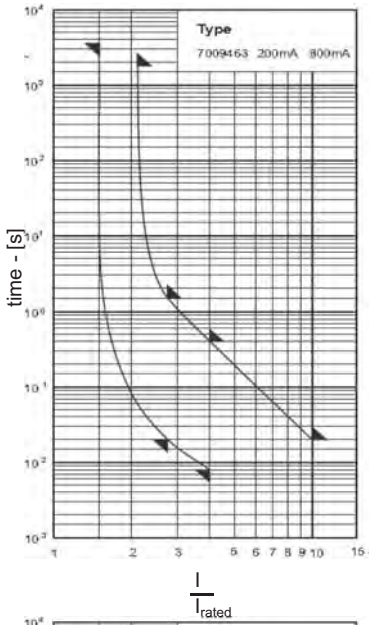
Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.5I_n [w]	Pre-arcing I^2t [A^2s]
0.200	7009463.0.200		50kA @ 600V_{AC}	6 500	2.9	0.0035
0.400	7009463.0.400		50kA @ 600V_{AC}	900	1.0	0.07
0.500	7009463.0.500		50kA @ 600V_{AC}	800	1.1	0.19
0.800	7009463.0.800		50kA @ 600V_{AC}	600	1.4	0.49
1	7009463.1		50kA @ 600V_{AC}	400	1.2	0.4
2	7009463.2		50kA @ 600V_{AC}	280	1.6	2.5
3	7009463.3		50kA @ 600V_{AC}	260	2.2	7.5
5	7009463.5		50kA @ 600V_{AC}	190	2.9	40
7	7009463.7		50kA @ 600V_{AC}	150	3.8	100
10	7009463.10		50kA @ 600V_{AC}	150	4.0	240

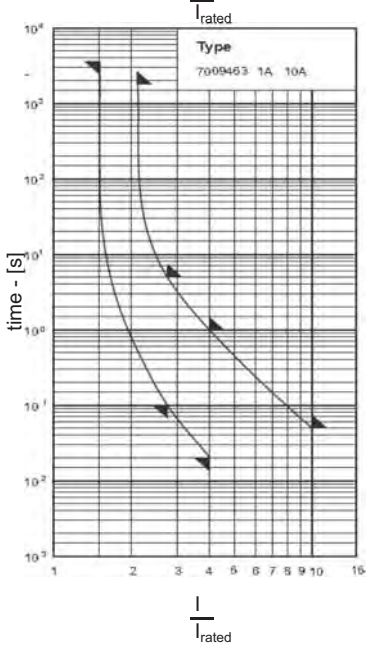
Weight (kg per 100)
0.12
Units per Package
10

For 7A and higher, consideration should be given to heat dissipation

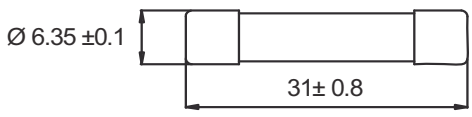
AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 70 094 63.10IP

Time-Current Characteristics





Dimensions [mm]



Rated Current	Fusing Time Limits									
	1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
200mA - 800mA	1h	—	—	30m	20s	1.5s	8ms	400ms	—	20ms
1A - 10A	1h	—	—	30m	100ms	5s	20ms	1s	—	50ms

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RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$250V_{AC}$	$250V_{AC}$	35A	T	

6.3mmx32mm - Glass Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [W]	Pre-arcing I^2t [A^2s]
0.050	189100.0.050		35A @ $250V_{AC}$	3 000	0.3	0.035
0.063	189100.0.063		35A @ $250V_{AC}$	2 500	0.3	0.04
0.080	189100.0.080		35A @ $250V_{AC}$	2 000	0.3	0.08
0.100	189100.0.100		35A @ $250V_{AC}$	1 500	0.3	0.17
0.125	189100.0.125		35A @ $250V_{AC}$	1 200	0.3	0.26
0.160	189100.0.160		35A @ $250V_{AC}$	1 100	0.4	0.44
0.200	189100.0.200		35A @ $250V_{AC}$	1 100	0.4	0.6
0.250	189100.0.250		35A @ $250V_{AC}$	900	0.5	0.6
0.315	189100.0.315		35A @ $250V_{AC}$	300	0.2	0.35
0.400	189100.0.400		35A @ $250V_{AC}$	300	0.2	0.49
0.500	189100.0.500		35A @ $250V_{AC}$	300	0.3	0.9
0.630	189100.0.630		35A @ $250V_{AC}$	300	0.3	1.4
0.800	189100.0.800		35A @ $250V_{AC}$	250	0.4	3.2
1	189100.1		35A @ $250V_{AC}$	250	0.4	6.5
1.25	189100.1.25		35A @ $250V_{AC}$	250	0.4	5
1.6	189100.1.6		35A @ $250V_{AC}$	200	0.5	10
2	189100.2		35A @ $250V_{AC}$	200	0.6	16
2.5	189100.2.5		35A @ $250V_{AC}$	220	0.7	24
3.15	189100.3.15		35A @ $250V_{AC}$	200	0.8	42
4	189100.4		40A @ $250V_{AC}$	200	1.0	70
5	189100.5		50A @ $250V_{AC}$	200	1.3	130
6.3	189100.6.3		63A @ $250V_{AC}$	200	1.6	230
8	189100.8		80A @ $250V_{AC}$	200	2.0	370
10	189100.10		100A @ $250V_{AC}$	150	2.3	630
12.5	189100.12.5		125A @ $250V_{AC}$	150	2.8	820
15	189100.15		150A @ $250V_{AC}$	150	2.9	925
16	189100.16		160A @ $250V_{AC}$	150	3.0	1 200
20	189100.20		200A @ $250V_{AC}$	150	4.0	1 600

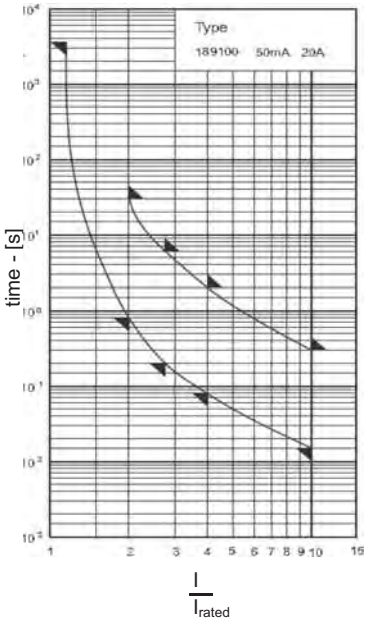
Weight (kg per 100)

Units per Package
10

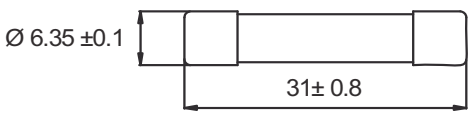
For 6.3A and higher, consideration should be given to heat dissipation

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189100.2IP

Time-Current Characteristics



Dimensions [mm]



	Fusing Time Limits									
Rated Current	$1.5I_n$		$2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
500mA - 20A	—	—	800ms	30s	200ms	6s	80ms	2s	15ms	300ms

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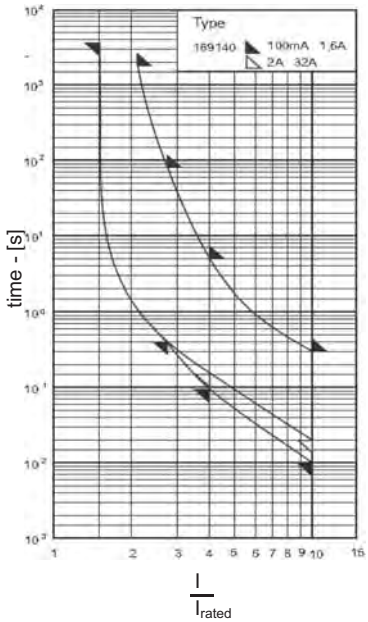
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s)
$500V_{AC}$ - $250V_{AC}$	$500V_{AC}$	1.5kA	T	
$400V_{DC}$	$400V_{DC}$	1.5kA		

E167295 & E180276

6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number	UL rec	Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.5I_n$ [W]	Pre-arcing I^2t [A^2s]
0.100	189140.0.100	✓	1.5kA @ $500V_{AC}$[1]	3 600	1.3	0.04
0.125	189140.0.125	✓	1.5kA @ $500V_{AC}$[1]	3 400	1.4	0.06
0.160	189140.0.160	✓	1.5kA @ $500V_{AC}$[1]	3 000	1.5	0.1
0.200	189140.0.200	✓	1.5kA @ $500V_{AC}$[1]	2 500	1.6	0.18
0.250	189140.0.250	✓	1.5kA @ $500V_{AC}$[1]	2 000	1.7	0.25
0.315	189140.0.315	✓	1.5kA @ $500V_{AC}$[1]	1 800	1.8	0.45
0.400	189140.0.400	✓	1.5kA @ $500V_{AC}$[1]	1 600	2.0	0.45
0.500	189140.0.500	✓	1.5kA @ $500V_{AC}$[1]	450	0.6	0.35
0.630	189140.0.630	✓	1.5kA @ $500V_{AC}$[1]	400	0.7	0.49
0.800	189140.0.800	✓	1.5kA @ $500V_{AC}$[1]	350	0.8	0.9
1	189140.1	✓	1.5kA @ $500V_{AC}$[1]	350	0.9	1.4
1.25	189140.1.25	✓	1.5kA @ $500V_{AC}$[1]	300	1.0	3.2
1.6	189140.1.6	✓	1.5kA @ $500V_{AC}$[1]	200	1.1	5.2
2	189140.2	✓	1.5kA @ $500V_{AC}$[1]	180	1.2	10
2.5	189140.2.5	✓	1.5kA @ $500V_{AC}$[1]	160	1.3	19
3.15	189140.3.15	✓	1.5kA @ $500V_{AC}$[2]	150	1.4	37
4	189140.4	✓	1.5kA @ $500V_{AC}$[2]	140	1.5	68
5	189140.5	✓	1.5kA @ $500V_{AC}$[2]	135	2.2	80
6.3	189140.6.3	✓	1.5kA @ $500V_{AC}$[2]	110	2.2	215
8	189140.8	✓	1.5kA @ $500V_{AC}$[2]	110	2.6	370
10	189140.10	✓	1.5kA @ $500V_{AC}$[2]	100	3.0	620
12.5	189140.12.5	✓	1.5kA @ $500V_{AC}$[3]	100	3.5	1 300
16	189140.16	✓	1.5kA @ $500V_{AC}$[3]	100	4	2 500
20	189140.20		1.5kA @ $500V_{AC}$[3]	100	6	3 400
25	189140.25		1.5kA @ $500V_{AC}$[3]	100	8	5 600
32	189140.32		1.5kA @ $500V_{AC}$[3]	80	10	3 900

Time-Current Characteristics



Weight (kg per 100)
Units per Package
10

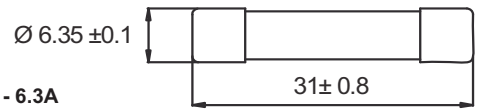
[1] cosφ=1, 10kA @440V_{AC} cosφ=0.3, 1.5kA @ 400V_{DC} without approval

[2] cosφ=1, 10kA @ 440V_{AC} cosφ=0.3, 1.5kA @ 400V_{DC} - **UL Recognized**

[3] cosφ=1, 1.5kA @ 300V_{DC} without approval

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189140.1.6IP

Dimensions [mm]



SMD version also available 1A - 6.3A

	Fusing Time Limits									
Rated Current	$1.5I_n$		$2I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
100mA - 1.6A	1h	—	30m	—	400ms	80s	95ms	5s	10ms	300ms
2A - 32A	1h	—	30m	—	400ms	80s	150ms	5s	20ms	300ms

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G

RoHS

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class T/D	Standard(s)
$250V_{AC}$	$250V_{AC}$	100A		UL 248-14
$125V_{AC}$	$125V_{AC}$	10kA		CSA C22.s
				No. 248-14

6.3mmx32mm - Glass Tube, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop Drop [mV]	Power Dissipation @ $1.0I_n$ [mw]	Pre-arcing I^2t [A^2s]
0.300	189500.0.300		100A @ $250V_{AC}$ [1]	870	0.26	1.5
0.375	189500.0.375		100A @ $250V_{AC}$ [1]	840	0.32	2.5
0.400	189500.0.400		100A @ $250V_{AC}$ [1]	730	0.29	2.5
0.500	189500.0.500		100A @ $250V_{AC}$ [1]	660	0.33	5.4
0.600	189500.0.600		100A @ $250V_{AC}$ [1]	600	0.36	3.1
0.700	189500.0.700		100A @ $250V_{AC}$ [1]	580	0.41	4.5
0.800	189500.0.800		100A @ $250V_{AC}$ [1]	500	0.40	6.4
1	189500.1		100A @ $250V_{AC}$ [1]	450	0.45	13
1.25	189500.1.25		100A @ $250V_{AC}$ [1]	400	0.50	19
1.5	189500.1.5		100A @ $250V_{AC}$ [1]	370	0.56	25
1.6	189500.1.6		100A @ $250V_{AC}$ [1]	350	0.56	32
2	189500.2		100A @ $250V_{AC}$ [1]	330	0.66	55
2.5	189500.2.5		100A @ $250V_{AC}$ [1]	290	0.73	90
2.8	189500.2.8		100A @ $250V_{AC}$ [1]	270	0.76	120
3	189500.3		100A @ $250V_{AC}$ [1]	250	0.75	160
3.2	189500.3.2		100A @ $250V_{AC}$ [1]	220	0.70	350
4	189500.4		10kA @ $125V_{AC}$ [2]	200	0.80	590
5	189500.5		10kA @ $125V_{AC}$ [2]	200	1.0	600
6.25	189500.6.25		10kA @ $125V_{AC}$ [2]	200	1.3	1 300

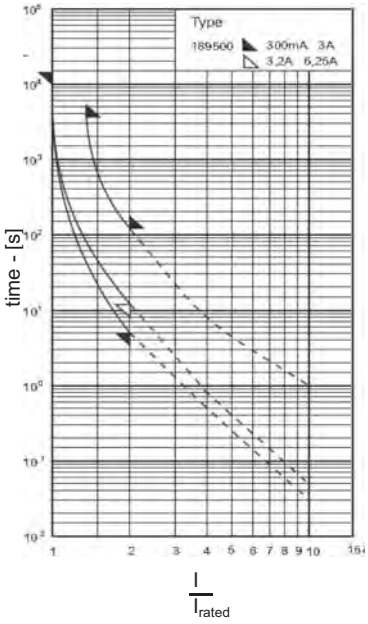
Weight (kg per 100)
Units per Package
10

[1] 10kA@$125V_{AC}$, 100A@$250V_{AC}$ - cosφ = 0.7 - 0.8

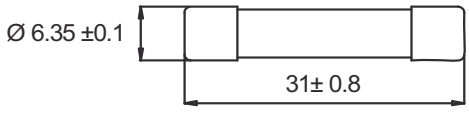
[2] 10kA@$125V_{AC}$, cosφ = 0.7 - 0.8

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189500.1.25IP

Time-Current Characteristics



Dimensions [mm]



	Fusing Time Limits									
Rated Current	$1I_n$		$1.35I_n$		$2I_n$					
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
300mA - 3A	4h	—	—	1h	5s	—	—	—	—	—
3.2A - 6.25A	4h	—	—	1h	12s	—	—	—	—	—

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G		Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class	Standard(s) Following
	RoHS	400V$_{AC}$	400V$_{AC}$	30kA	gPV	IEC 60269-4

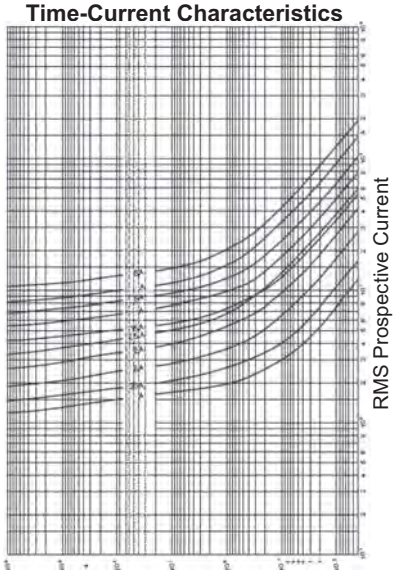
6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ 1.0I_n [W]	Pre-arcing I^2t [A^2s]	Total I^2t [A^2s]
1	7006526.1		30kA @ 400V$_{DC}$	600	0.60	0.58	1.1
1.25	7006526.1.25		30kA @ 400V$_{DC}$	500	0.63	1.1	2.2
1.6	7006526.1.6		30kA @ 400V$_{DC}$	375	0.6	3.2	6.5
2	7006526.2		30kA @ 400V$_{DC}$	300	0.6	7.1	15
2.5	7006526.2.5		30kA @ 400V$_{DC}$	270	0.7	14	30
3.15	7006526.3		30kA @ 400V$_{DC}$	250	0.8	11	22
4	7006526.4		30kA @ 400V$_{DC}$	220	0.9	23	50
5	7006526.5		30kA @ 400V$_{DC}$	210	1.1	42	85
6.3	7006526.6.3		30kA @ 400V$_{DC}$	200	1.3	83	150
8	7006526.8		30kA @ 400V$_{DC}$	175	1.4	150	300

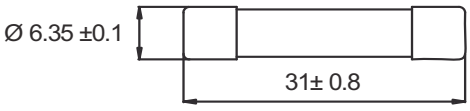
Weight (kg per 100)
Units per Package
10

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 70 065 26.10IP

Time-Current Characteristics



Dimensions [mm]



	Fusing Time Limits									
Rated Current	1.1I_n		1.45I_n							
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
300mA - 8A	1h	–	–	1h	–	–	–	–	–	–

G

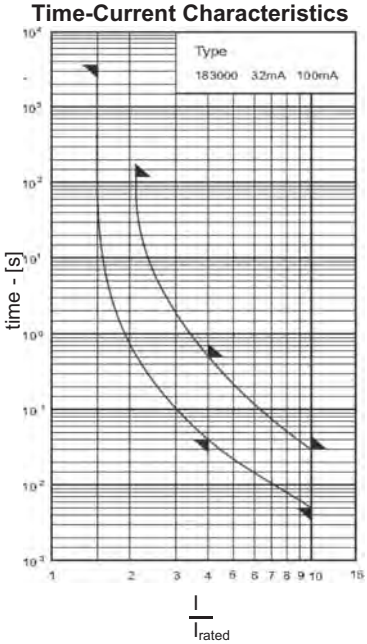
RoHS

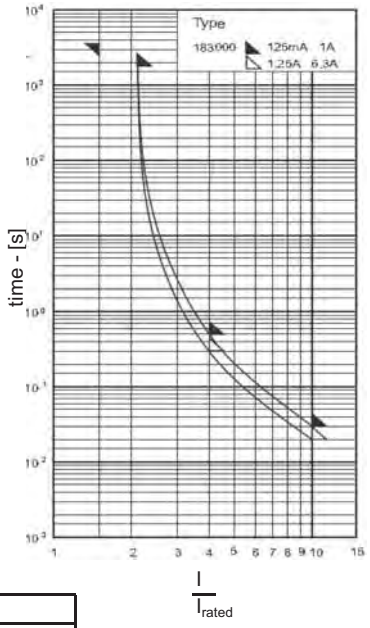
Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class M/F	Standard(s)
$500V_{AC}$	$500V_{AC}$	50A	F1,6 A 500 V	DIN 41686

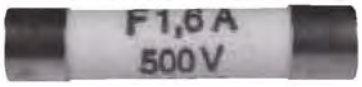
8mmx40mm - Glass Tube(M), Ceramic Tube(F), Contacts - Brass, Nickel Plated

Rated Current I_n [A]	Article Number		Rated Breaking Current [A]	Voltage Drop [mV]	Power Dissipation @ $1.0I_n$ [W]	Pre-arcing I^2t [A^2s]
	M					
0.032	183000.0.032		80A @ $500V_{AC}$	2 300	Data On Request	
0.050	183000.0.050		80A @ $500V_{AC}$	1 600		
0.063	183000.0.063		80A @ $500V_{AC}$	1 300		
0.080	183000.0.080		80A @ $500V_{AC}$	950		
0.100	183000.0.100		80A @ $500V_{AC}$	700		
	F					
0.125	183000.0.125		1.5kA @ $500V_{AC}$	6 300		
0.160	183000.0.160		1.5kA @ $500V_{AC}$	4 700		
0.200	183000.0.200		1.5kA @ $500V_{AC}$	3 600		
0.250	183000.0.250		1.5kA @ $500V_{AC}$	2 800		
0.315	183000.0.315		1.5kA @ $500V_{AC}$	2 100		
0.400	183000.0.400		1.5kA @ $500V_{AC}$	1 600		
0.500	183000.0.500		1.5kA @ $500V_{AC}$	1 250		
0.630	183000.0.630		1.5kA @ $500V_{AC}$	1 000		
0.800	183000.0.800		1.5kA @ $500V_{AC}$	800		
1	183000.1		1.5kA @ $500V_{AC}$	620		
1.25	183000.1.25		1.5kA @ $500V_{AC}$	520		
1.6	183000.1.6		1.5kA @ $500V_{AC}$	450		
2	183000.2		1.5kA @ $500V_{AC}$	400		
2.5	183000.2.5		1.5kA @ $500V_{AC}$	370		
3.15	183000.3.15		1.5kA @ $500V_{AC}$	340		
4	183000.4		1.5kA @ $500V_{AC}$	320		
5	183000.5		1.5kA @ $500V_{AC}$	310		
6.3	183000.6.3		1.5kA @ $500V_{AC}$	300		
	Weight (kg per 100)					
	Units per Package					

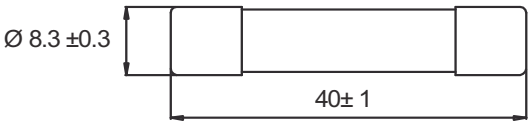
Time-Current Characteristics







Dimensions [mm]



Rated Current	Fusing Time Limits									
	$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
32mA - 100mA	1h	–	–	2m	–	–	40ms	500ms	5ms	30ms
125mA - 1A	1h	–	–	30m	–	–	–	400ms	–	30ms
1.25A - 6.3A	1h	–	–	30m	–	–	–	300ms	–	20ms

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G

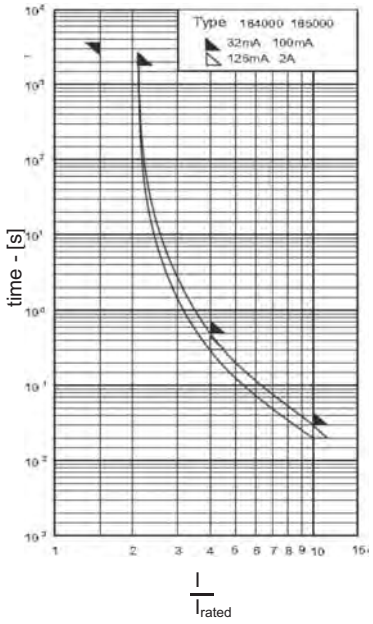
RoHS

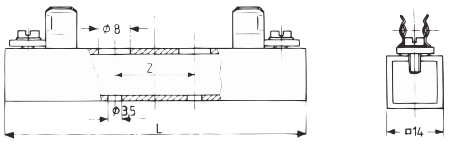
8mmx50mm -
8mmx85mm - Ceramic Tube, Contacts - Brass, Nickel Plated

Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class M/F	Standard(s)
$1.2kV_{AC}$	1.2kVAC	35A		DIN 41570
$3kV_{AC}$	$3kV_{AC}$	35A		DIN 41569

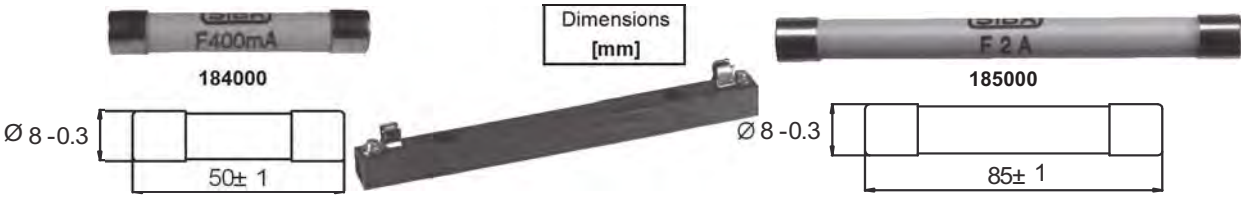
Rated Current I_n [A]	Article Number		Article Number		Rated Breaking Current [A]	Voltage Drop Maximum [mV]	Voltage Drop Maximum [mV]
	M					184000	185000
0.032	184000.0.032		185000.0.032			2 300	4 500
0.050	184000.0.050		185000.0.050			1 900	3 000
0.063	184000.0.063		185000.0.063			1 700	2 400
0.080	184000.0.080		185000.0.080			1 500	1 900
0.100	184000.0.100		185000.0.100			1 300	1 500
	F						
0.125	184000.0.125		185000.0.125			9 500	17 500
0.160	184000.0.160		185000.0.160		184000	8 000	14 000
0.200	184000.0.200		185000.0.200		35A	7 000	12 000
0.250	184000.0.250		185000.0.250		@	6 000	10 500
0.315	184000.0.315		185000.0.315		$1.2kV_{AC}$	5 000	9 000
0.400	184000.0.400		185000.0.400			2 000	3 500
0.500	184000.0.500		185000.0.500		185000	950	1 600
0.630	184000.0.630		185000.0.630		35A	860	1 500
0.800	184000.0.800		185000.0.800		@	760	1 300
1	184000.1		185000.1		$3kV_{AC}$	640	1 200
1.25	184000.1.25		185000.1.25			540	1 000
1.6	184000.1.6		185000.1.6			500	900
2	184000.2		185000.2			460	800
2.5	184000.2.5		185000.2.5				
3.15	184000.3.15		185000.3.15			On Request	
4	184000.4		185000.4				
5	184000.5						
6.3	184000.6.3						
	Weight (kg per 100)		Weight (kg per 100)				
	Units per Package		Units per Package				

Time-Current Characteristics





Fuse Base Article No.	Fuse	Rated Voltage	Dimensions [mm]		Rated Current	Rated Power
			L	Z	A	W
71 034 01	184000	1.2kV	75	20	6.3	4
71 037 01	185000	3kV	110	20	4	4



	Rated Current	Fusing Time Limits									
		1.5I_n		2.1I_n		2.75I_n		4I_n		10I_n	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	32mA - 100mA	1h	—	—	30m	—	—	—	500ms	—	30ms
184000	125mA - 6.3A	1h	—	—	30m	—	—	—	300ms	—	20ms
185000	125mA - 4A	1h	—	—	30m	—	—	—	300ms	—	20ms

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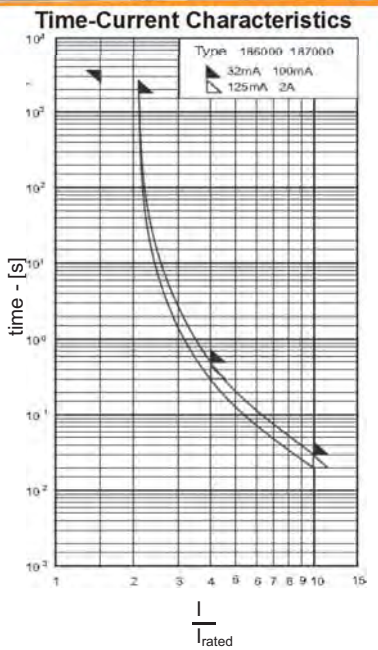
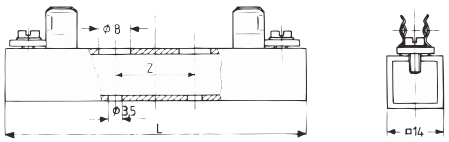
G		Rated Voltage [Un]	Rated Breaking Test Voltage	Rated Breaking Test Capacity	Class M/F	Standard(s)
RoHS		$6kV_{AC}$	$6kV_{AC}$	35A		DIN 41683
8mmx120mm -		$10kV_{AC}$	$10kV_{AC}$	35A		DIN 41684
8mmx150mm - Ceramic Tube, Contacts - Brass, Nickel Plated						

Rated Current I_n [A]	Article Number		Article Number		Rated Breaking Current [A]	Voltage Drop Maximum [mV]	Voltage Drop Maximum [mV]
	M					186000	187000
0.032	186000.0.032		187000.0.032			6 000	14 000
0.050	186000.0.050		187000.0.050			4 400	8 500
0.063	186000.0.063		187000.0.063			3 800	6 500
0.080	186000.0.080		187000.0.080			3 200	5 000
0.100	186000.0.100		187000.0.100			2 900	4 000
	F						
0.125	186000.0.125		187000.0.125			22 000	27 000
0.160	186000.0.160		187000.0.160		186000	19 000	24 000
0.200	186000.0.200		187000.0.200		35A	16 000	21 000
0.250	186000.0.250		187000.0.250		@	14 000	18 500
0.315	186000.0.315		187000.0.315		$6kV_{AC}$	12 000	17 000
0.400	186000.0.400		187000.0.400			5 000	6 000
0.500	186000.0.500		187000.0.500		187000	2 300	2 900
0.630	186000.0.630		187000.0.630		35A	2 000	2 700
0.800	186000.0.800		187000.0.800		@	1 900	2 400
1	186000.1		187000.1		$10kV_{AC}$	1 800	2 100
1.25	186000.1.25		187000.1.25			1 400	1 800
1.6	186000.1.6		187000.1.6			1 300	1 600
2	186000.2		187000.2			1 100	1 400
2.5	186000.2.5					On Request	
3.15	186000.3.15						
4	186000.4						
	Weight (kg per 100)		Weight (kg per 100)				
	Units per Package		Units per Package				





Fuse Base Article No.	Fuse	Rated Voltage	Dimensions [mm]		Rated Current	Rated Power
			L	Z	A	W
71 040 01	**186000**	6kV	145	80	4	4
71 043 01	**187000**	10kV	175	100	2	4

186000

Ø 8 -0.3

120 ±1

Dimensions [mm]

187000

Ø 8 -0.3

150 ±1

	Rated Current	Fusing Time Limits									
		$1.5I_n$		$2.1I_n$		$2.75I_n$		$4I_n$		$10I_n$	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	32mA - 100mA	1h	—	—	30m	—	—	—	500ms	—	30ms
186000	125mA - 6.3A	1h	—	—	30m	—	—	—	300ms	—	20ms
187000	125mA - 4A	1h	—	—	30m	—	—	—	300ms	—	20ms

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G

RoHS

Miniature G High Voltage Fuses

Standard(s)
Company

Ceramic Tube w/Filler, Contacts - Copper Alloy, Silver Plated

Article Number	Votage Rating	Dimensions	Current Ratings	Class	Breaking Capaciy
7011509	$3kV_{AC}$	10mmx85mm	0.125A - 4A	F	150A
7011527	$1.5kV_{AC}/1kV_{DC}$	10mmx85mm	0.63A - 12.5A	T	$/10kA_{DC}$
7011552	$1.5kV_{AC}/1kV_{DC}$	10mmx85mm	1A - 20A	F	$1.5kA_{AC}/300A_{DC}$
7012927	$1kV_{AC}$	11mmx79mm	2A - 16A	T	15kA
7012952	$1kV_{AC}$	11mmx79mm	1A - 12A	F	15kA
7017182	$1kV_{AC}$	10mmx85mm	2A - 16A	aM	25kA
7002924	$3kV_{AC}$	12mmx100mm	0.5A - 10A	F	300A
7002927	$3kV_{AC}$	12mmx100mm	2,5A - 6.3A	T	300A
7003024	$6kV_{AC}$	12mmx150mm	0.5A - 4A	F	300A
7003124	$10kV_{AC}$	12mmx200mm	0.5A - 2A	F	300A

71 037 02

Fuse Holder				
Article Number	Votage Rating	Current Ratings	Fuse Size	Rated Power
7103702	3kV	6.3A	10mmx85mm	4W

71 029 01
71 030 01
71 031 01

Fuse Base				
Article Number	Votage Rating	Current Ratings	Fuse Size	Rated Power
7102901	3kV	6.3A	12mmx100mm	4W
7103001	6kV	4A	12mmx150mm	4W
7103101	10kV	2A	12mmx200mm	4W

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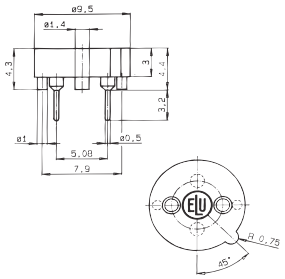
G

RoHS

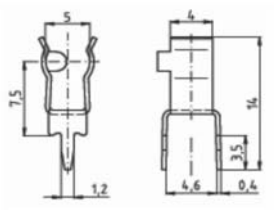
Fuse Holders for Sub-miniature Fuses 8.4mm x 7.6mm with short leads

166602

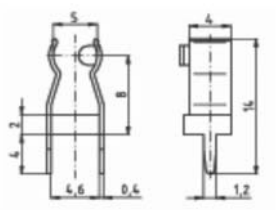


rated current	6.3 A
mounting	printed circuit board
pin distance	5.08 mm
hole	Ø 1 mm

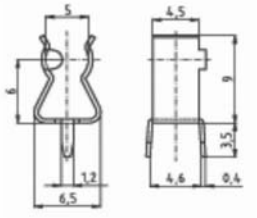
Fuse clips for miniature Fuse Links with 5mm & 6.3mm cap Ø



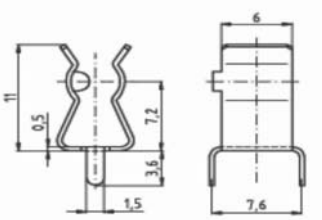
199073



199207



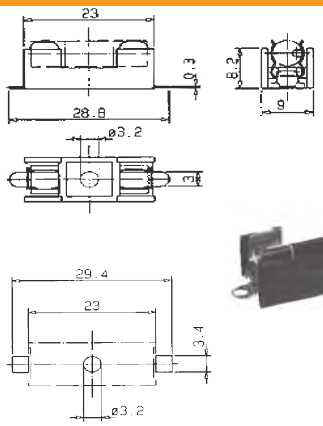
199487



199429

For Ø 5 mm			For or Ø 6.3 mm
	rated current	6.3A, Ø 5 mm 10A, Ø 6.3 mm	
	mounting	printed circuit board	
	material	brass, tinned	
	connections	solderable	

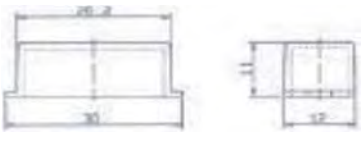
Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm



199011

rated voltage	250 V_{AC}, 300V_{DC}
rated current	6,3 A
rated power	1,6 W
mounting	printed circuit board, screw or rivet
connections	solder
approvals VDE	

Cover



199012

PCB mounting pattern

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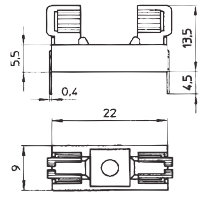
G

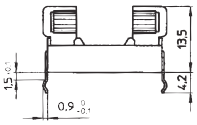
Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm



199015

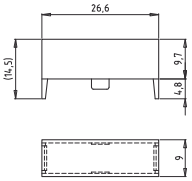
approvals UL(rec), VDE

rated voltage	250 V_{AC}
rated current	6,3 A
rated power	1,6 W
mounting	printed circuit board, screw or rivet
pin distance	22.5 mm
hole	Ø 1.5 mm
connections	solder
cover 199016	thermoplastic. transparent

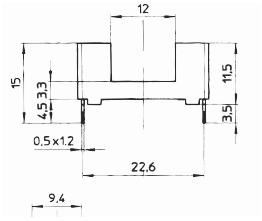


199015A

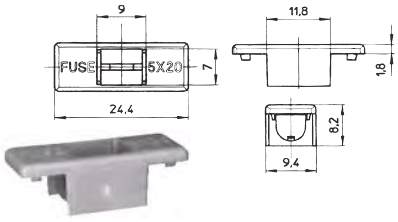
approvals UL(rec), VDE



199016



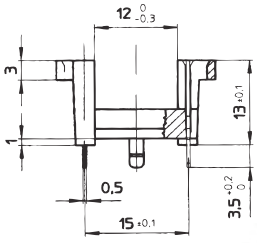
rated voltage	250 V_{AC}
rated current	6,3 A
rated power	1,6 W
mounting	printed circuit board
pin distance	22.5 mm
hole	Ø 1.5 mm
connections	solder
cover 199016	thermoplastic. Green



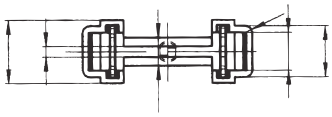
199018

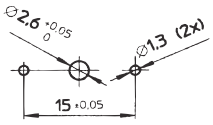
approvals UL(rec), VDE

199019



199060

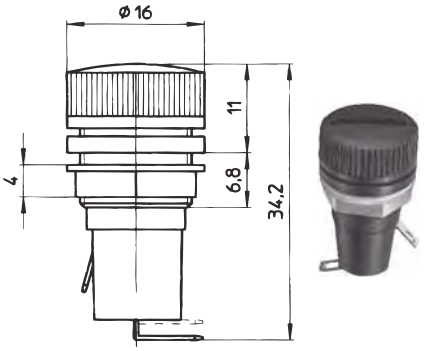




rated voltage	250 V_{AC}
rated current	6,3 A
rated power	1,6 W
mounting	printed circuit board
pin distance	15 mm
hole	Ø 1.3 mm / 2.6mm
connections	solder

G

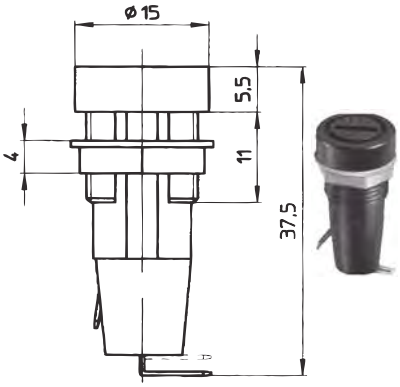
Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm



199030

approvals UL(rec), VDE

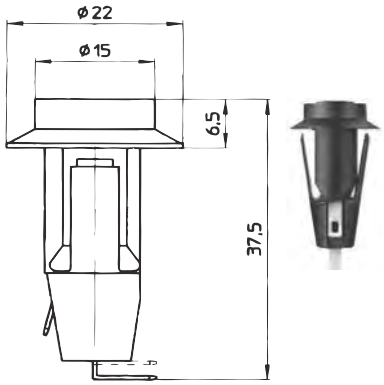
mounting	panel
hole	13mm
locating lug	
locknut	SW14
fuse carrier	screw cap
connections	2.8mm plug connector or solderable



199035

approvals UL(rec), VDE

mounting	panel
hole	12.7mm
locating lug	
locknut	SW14
fuse carrier	screw cap
connections	2.8mm plug connector or solderable

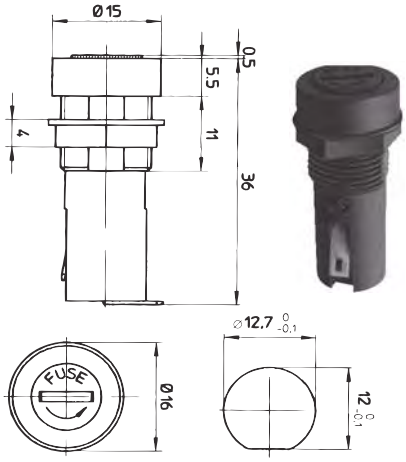


199040

approvals UL(rec), VDE

mounting	panel
hole	12.7mm
locating lug	
locknut	SW14
fuse carrier	screw cap
connections	2.8mm plug connector or solderable

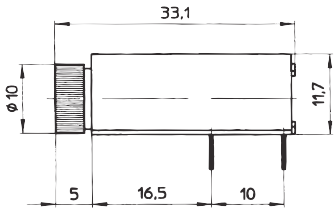
rated voltage	250 V
rated current	6.3 A
rated power	2.5 W
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2



199055

mounting	panel
hole	12.7mm
locating lug	
locknut	SW14
fuse carrier	bayonet cap
connections	solder

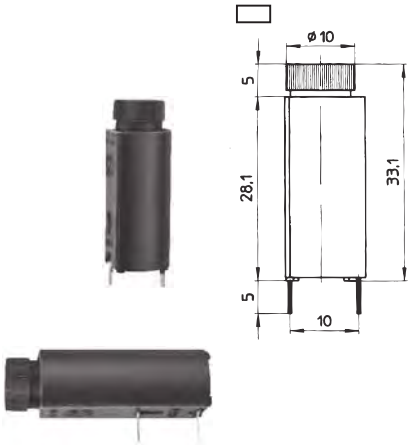
approvals UL(rec), VDE



199050

mounting	PCB
pin distance	10mm
via hole	Ø 1.3 +0.1 mm
fuse carrier	bayonet cap
connections	solder

approvals UL(rec), VDE



199045

mounting	PCB
pin distance	10mm
via hole	Ø 1.3 +0.1 mm
fuse carrier	bayonet cap
connections	solder

approvals UL(rec), VDE

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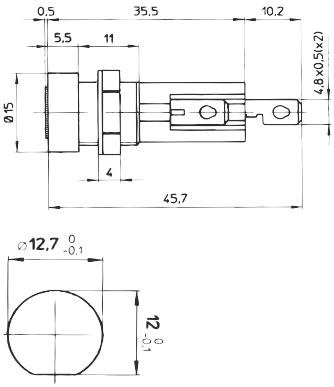
G

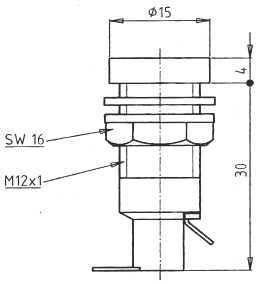
Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm

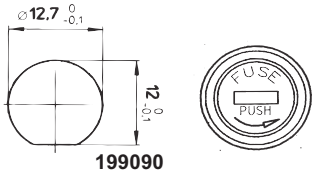


199070

rated voltage	250 V
rated current	6.3 VDE / 10A UL/CSA
rated power	2.5 W
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	panel
hole	12.7mm
locating lug	
locknut	SW14
fuse carrier	bayonet cap
connections	4.8mm plug connector

approvals UL(rec), VDE



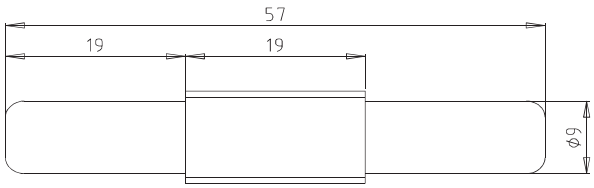


199090

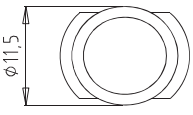
rated voltage	250 V
rated current	6.3 VDE / 10A UL/CSA
rated power	
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	panel
hole	12.7mm
locating lug	
locknut	SW16
fuse carrier	bayonet cap
connections	solder

approvals UL(rec) CSA (10A), VDE SEMK0(6.3A)

In Line Fuse Holders for miniature Fuse Links 5mm x 20mm



199080



rated voltage	250 V
rated current	6
rated power	1.6 W
mounting	in line fuse holder
locking	bayonet type
connections	solderable

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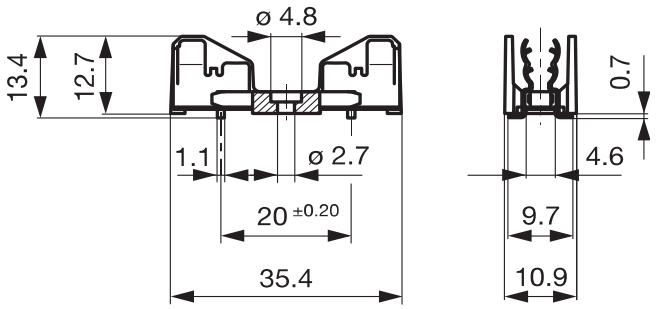
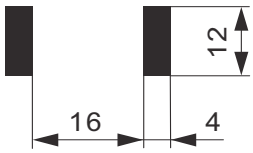
G

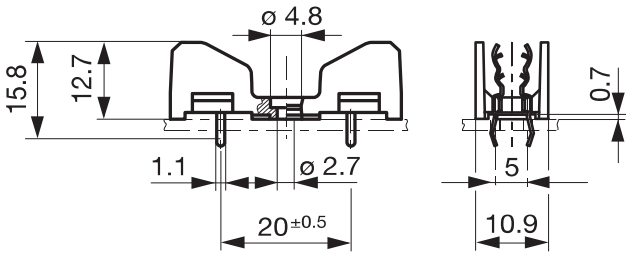
Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm / 6.3mm x 32mm

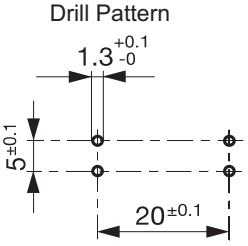




199511

rated voltage	500V (VDE) / 600$V_{AC/DC}$(UL/CSA)
rated current	10A (VDE) / 16A (UL/CSA)
rated power	4 W
dielectric strength	3 kV
mounting	surface mount
fixing	rivet or screw
connections	solder
approvals	UL(rec), VDE





199537

rated voltage	500V (VDE) / 600$V_{AC/DC}$(UL/CSA)
rated current	10A (VDE) / 16A (UL/CSA)
rated power	4 W
dielectric strength	3 kV
mounting	PCB
fixing	rivet or screw
connections	solder
approvals	UL(rec), VDE

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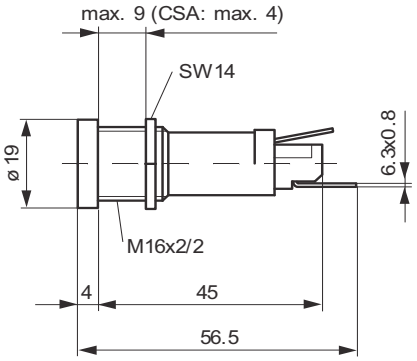
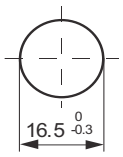
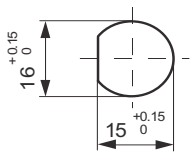
G

Fuse Holders (Fuse Blocks) for miniature Fuse Links 6.3mm x 32mm

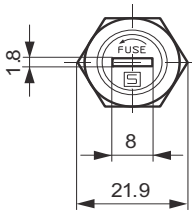


Hole Pattern





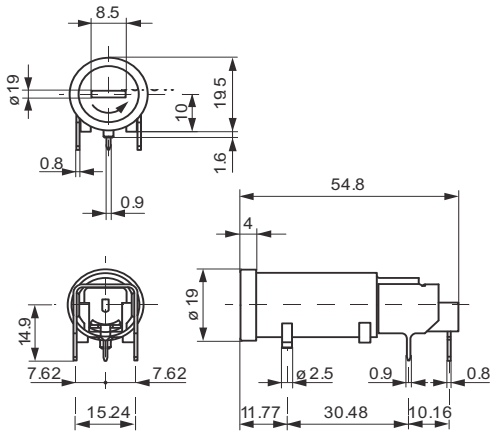
199531



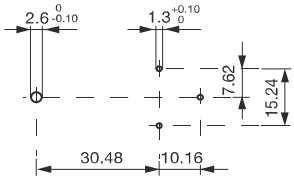
199530

rated voltage	500V (VDE) / 600$V_{AC/DC}$(UL/CSA)
rated current	10A (VDE) / 20A (UL/CSA)
rated power	4 W @ 10A
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	panel
hole	16.5mm
locating lug	
locknut	
fuse carrier	bayonet cap
connections	6.3x0.8mm plug connector

Approvals UL(rec), VDE



rated voltage	500V (VDE) / 600$V_{AC/DC}$(UL/CSA)
rated current	16A (VDE) / 30A (UL/CSA)
rated power	4 W @ 16A
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	PCB
fuse carrier	screw cap
connections	solderable THT



199552

199550

approvals UL(rec), VDE

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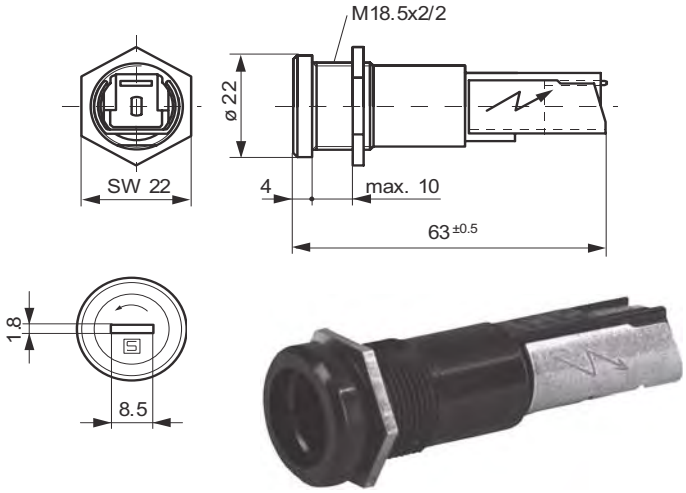
G

Fuse Holders (Fuse Blocks) for miniature Fuse Links 6.3mm x 32mm

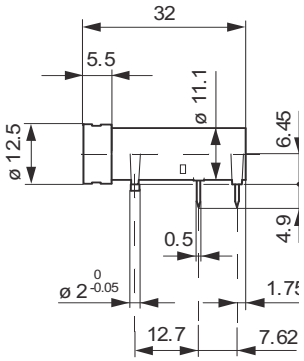


199555

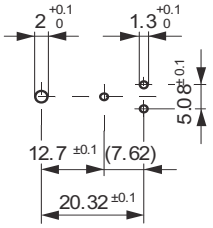
approvals UL(rec), VDE

rated voltage	500V (VDE) / 600$V_{AC/DC}$(UL/CSA)
rated current	16A (VDE) / 30A (UL/CSA)
rated power	4 W @ 16A
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	panel
fixing	nut
fuse carrier	screw cap
connections	6.3x0.8mm plug connector

199552

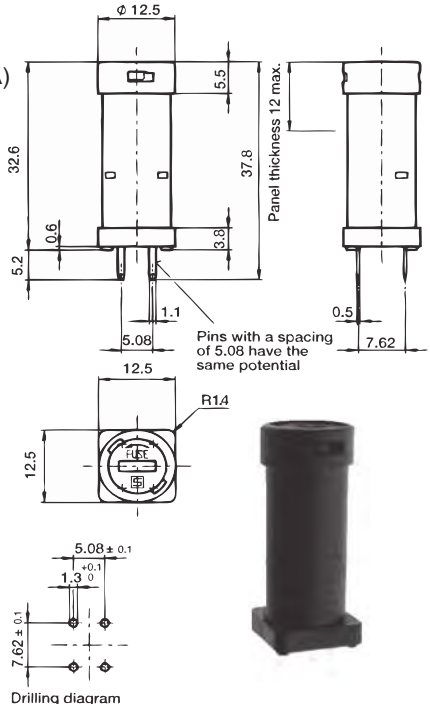


rated voltage	250V_{AC}
rated current	10A (VDE) / 16A (UL/CSA)
rated power	2.5 W @ 10A
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	PCB
pin distance	7.62x5.08mm
via hole	Ø 1.3 +0.1 mm
fuse carrier	bayonet cap
connections	solder



7100127

approvals UL(rec), VDE



7100128

approvals UL(rec), VDE

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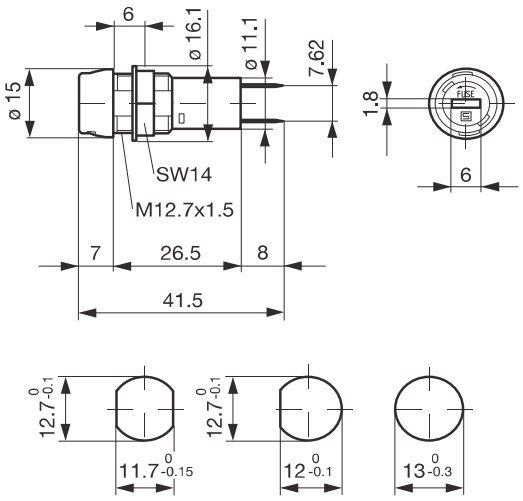
Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm

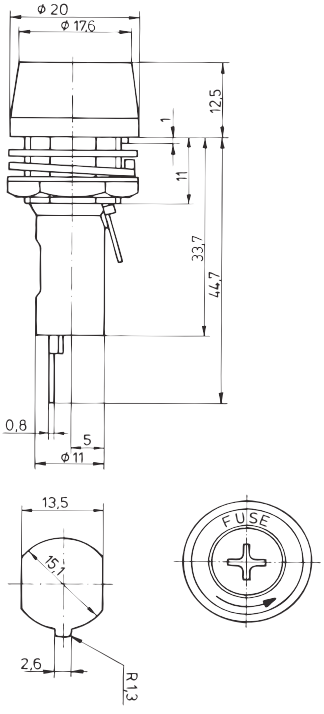


rated voltage	250 V_{AC}
rated current	10 VDE / 16A UL/CSA
rated power	2.5 W @ 10A
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	panel
hole	13mm
distortion protection	
locknut	M12.7x1.5
fuse carrier	bayonet cap
connections	solder

7100129

approvals UL(rec), VDE

Fuse Holders (Fuse Blocks) for miniature Fuse Links 6.3mm x 32mm



rated voltage	250 V
rated current	20A
rated power	
dielectric strength	3 kV
protection standard	IP 40
shock safe category	
mounting	panel
hole	15.1mm
locating lug	
locknut	SW18
fuse carrier	bayonet cap
connections	solder

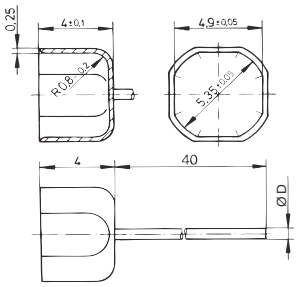
199052

G

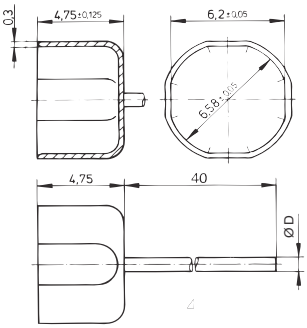
RoHS

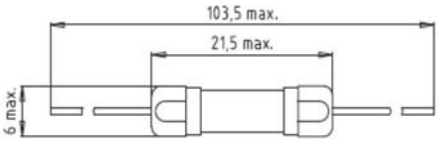
Press on leads for miniature Fuse Links 5mm x 20mm and 6.3mm x 32mm

Ø 5mm



Ø 6.3mm



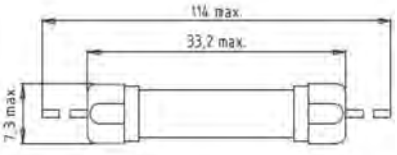


Ø 5mm

204000	Max 6.3A	D=0.65mm
204001	Max 10A	D=0.8mm
204002	Max 16A	D=1mm

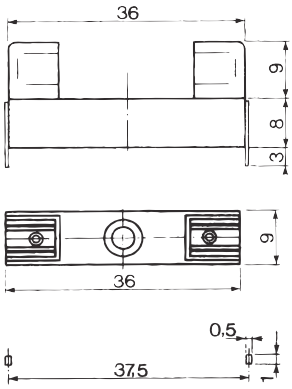
Ø 6.3mm

204100	Max 12.5A	D=0.8mm
204101	Max 20A	D=1mm



RoHS

Fuse Holders (Fuse Blocks) for miniature Fuse Links 6.3x32mm



199022

rated voltage	250 V
rated current	10A
mounting	panel
dielectric strength	3 kV
protection standard	IP 40
shock safe category	
mounting	panel
hole	0.5x1mm
locating lug	
locknut	SW18
fuse carrier	bayonet cap
connections	solder

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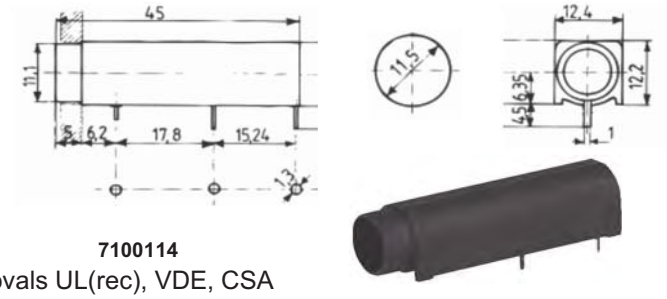
G

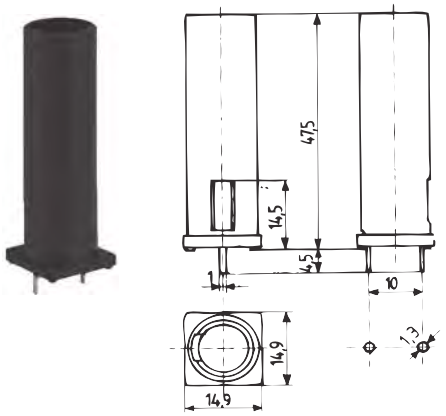
Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm or 6.3mm x 32mm



7100114

approvals UL(rec), VDE, CSA

rated voltage	$250V_{AC}$
rated current	10A (VDE) / 16A (UL/CSA)
rated power	2.5 W @ 10A(5x20mm)
rated power	3.2 W @ 10A(6.3x32mm)
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	PCB
pin distance	15.24mm
via hole	Ø 1.3 +0.1 mm
fuse carrier	bayonet cap
connections	solder



7100116

approvals UL(rec), VDE, CSA

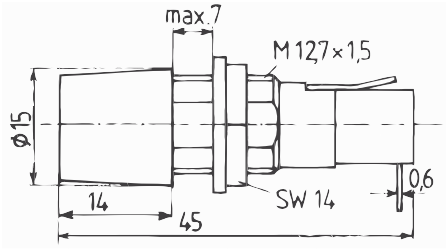
rated voltage	$250V_{AC}$
rated current	10A (VDE) / 16A (UL/CSA)
rated power	2.5 W @ 10A(5x20mm)
rated power	3.2 W @ 10A(6.3x32mm)
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	PCB
pin distance	10mm
via hole	Ø 1.3 +0.1 mm
fuse carrier	bayonet cap
connections	solder

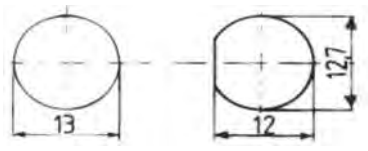
5x20mm

7200108

6.3x32

7200109

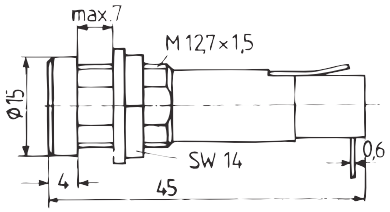


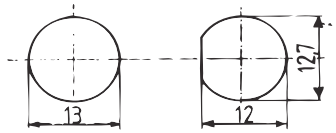


7100123

approvals UL(rec) 20A, VDE 10A

rated voltage	250V
rated current	10A (VDE) / 20A (UL)
rated power	4 W @ 10A
dielectric strength	3 kV
protection standard	IP 40
shock safe category	PC2
mounting	panel
hole	13mm
locating lug	
locknut	M12.7x1.5
fuse carrier	bayonet cap
connections	solder





7100124

approvals UL(rec), VDE,CSA

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