

# S500

## 5 mm x 20 mm Fast-acting glass tube fuses



### Product features

- Fast-acting, low breaking capacity
- Optional axial leads available
- 5 mm x 20 mm physical size
- Glass tube with silver-plated (32-125 mA) and nickel-plated (160 mA-10 A) endcaps
- Designed to IEC 60127-2/2 (160 mA-10 A)

### Agency information

- cURus: File E19180, Guide JDYX2, JDYX8
- CSA Component Acceptance: File 1803366
- SEMKO Approval: File 414552
- VDE Approval: File 40014109
- BSI Approval: File KM55676
- IMQ Approval: File CA03.00097
- CCC Approval: File 2005010207155694

### Ordering information

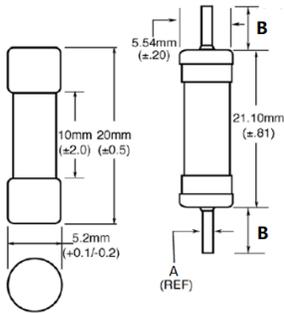
- Specify product code
- Insert packaging code prefix before part number. E.g., BK-S500-32-R
- Ratings above 6.3 A have a 0.8 mm diameter lead (axial lead)
- Specify option code if desired
- For axial leads, insert "V" between part number family and amp rating. E.g. S500-V-100-R

Electrical characteristics							
I <sub>n</sub>	1.5 I <sub>n</sub>		2.1 I <sub>n</sub>		4 I <sub>n</sub>		10 I <sub>n</sub>
	min	max	min	max	min	max	max
32 mA-125 mA	60 min	30 min	10 ms	500 ms	3 ms	100 ms	20 ms
160 mA-6.3 A	60 min	30 min	50 ms	2 sec	10 ms	300 ms	20 ms
8 A-10 A	30 min	30 min	50 ms	2 sec	10 ms	400 ms	40 ms

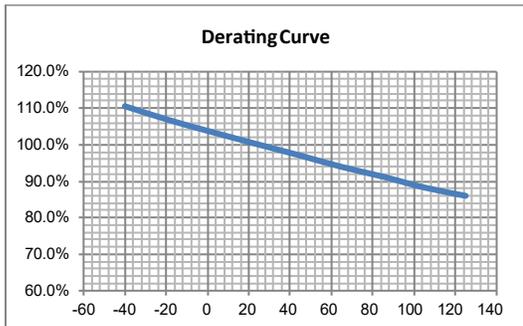
Part number	Voltage rating Vac	Interrupting rating (A) at rated voltage (50 Hz) Vac	Typical DC cold resistance (Ω)*	Typical melting I <sup>2</sup> t AC†	Maximum voltage drop (mV)‡	Agency approvals						
						cURus	CSA	CCC	BSI	VDE	SEMKO	IMQ
						S500-32-R	250	35	290	0.00002	13000	
S500-40-R	250	35	210	0.00006	11500							
S500-50-R	250	35	150	0.00010	10500							
S500-63-R	250	35	113	0.00020	9800							
S500-80-R	250	35	22	0.0008	3000							
S500-100-R	250	35	18	0.0013	2800							
S500-125-R	250	35	11	0.0034	2200							
S500-160-R	250	35	9.1	0.008	2000	X	X	X	X	X	X	X
S500-200-R	250	35	6.8	0.016	1700	X	X	X	X	X	X	X
S500-250-R	250	35	4.3	0.28	1400	X	X	X	X	X	X	X
S500-315-R	250	35	3.1	0.58	1300	X	X	X	X	X	X	X
S500-400-R	250	35	2.0	0.18	1100	X	X	X	X	X	X	X
S500-500-R	250	35	0.26	0.18	220	X	X	X	X	X	X	X
S500-630-R	250	35	0.20	0.35	220	X	X	X	X	X	X	X
S500-800-R	250	35	0.14	0.67	190	X	X	X	X	X	X	X
S500-1-R	250	35	0.125	0.60	200	X	X	X	X	X	X	X
S500-1.25-R	250	35	0.096	0.84	200	X	X	X	X	X	X	X
S500-1.6-R	250	35	0.066	1.6	190	X	X	X	X	X	X	X
S500-2-R	250	35	0.043	4.2	150	X	X	X	X	X	X	X
S500-2.5-R	250	35	0.034	6.1	150	X	X	X	X	X	X	X
S500-3.15-R	250	35	0.025	13	130	X	X	X	X	X	X	X
S500-4-R	250	40	0.021	22	130	X	X	X	X	X	X	X
S500-5-R	250	50	0.014	42	120	X	X	X	X	X	X	X
S500-6.3-R	250	63	0.010	69	120	X	X	X	X	X	X	X
S500-8-R	250	80	0.010	N/A	120	X	X		X	X	X	
S500-10-R	250	100	0.008	N/A	120	X	X		X	X	X	

\* DC cold resistance (Measured at <10% of rated current)  
 † Typical melting I<sup>2</sup>t (I<sup>2</sup>t was measured at listed interrupting rating and rated voltage)  
 ‡ Maximum voltage drop (Voltage drop was measured at +20 °C ambient temperature at rated current)  
 Operating temperature: -40 °C to +125 °C with proper derating factor

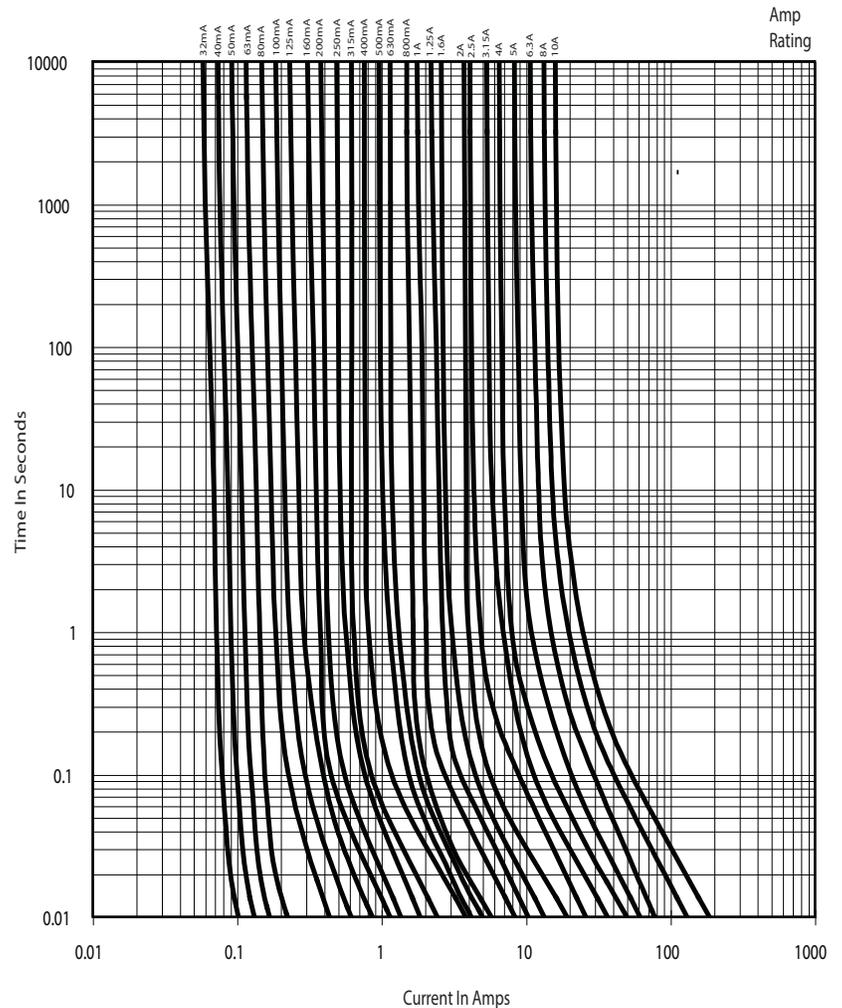
**Dimensions - mm**  
Drawing Not to Scale



Dimension A (REF): 0.65 mm (0.5 A-6.3 A), 0.80 mm (8 A-10 A)  
Dimension B: For BK/packaging, 38.1 ± 0.38 mm  
For TR2/packaging, 15.8 ± 2 mm



**Time-current Curve**  
Nominal Time/Current Characteristics



Packaging code	
Packaging prefix	Description
BK	100 fuses packed into a cardboard carton
BK1	1,000 fuses packed in a poly bag (cartridge only)
TR2	1,500 fuses packed in a tape and reel (axial lead only)
Blank	5 fuses packed in a tin (cartridge only)

Option code	
Option code	Description
V	Axial leads

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