

# 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 (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 6.3A have a 0.8mm diameter lead
- With TR2 packaging code, lead wire length is 19.05 mm
- Specify option code if desired
- For axial leads, insert "V" between catalog series and amp rating. E.g. S500-V-100-R

Electrical Characteristics							
I <sub>n</sub>	1.5 I <sub>n</sub> min	2.1 I <sub>n</sub> max	2.75 I <sub>n</sub>		4 I <sub>n</sub>		10 I <sub>n</sub> max
			min	max	min	max	
32mA-125mA	60 min	30 min	-	-	-	-	-
160mA-6.3A	60 min	30 min	50 ms	2 sec	10 ms	300 ms	20 ms
8A-10A	30 min	30 min	50 ms	2 sec	10 ms	400 ms	40 ms

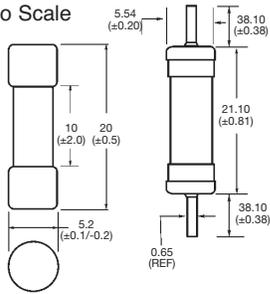
Part Number	Voltage Rating Vac	Interrupting Rating (amps) at Rated Voltage (50Hz) Vac	Typical DC Cold Resistance (Ω)*	Typical Melting I <sup>2</sup> t AC†	Maximum Voltage Drop (mV)‡	Agency Approvals						
						cURus	CSA	CCC	BSI	VDE	SEMKO	IMQ
						S500-32-R	250	35	40	0.000047	3200	
S500-40-R	250	35	25	0.00011	2500							
S500-50-R	250	35	17	0.00020	2400							
S500-63-R	250	35	125	0.00057	2000							
S500-80-R	250	35	5.0	0.0012	1200							
S500-100-R	250	35	3.8	0.003	1100							
S500-125-R	250	35	2.8	0.005	1000							
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)



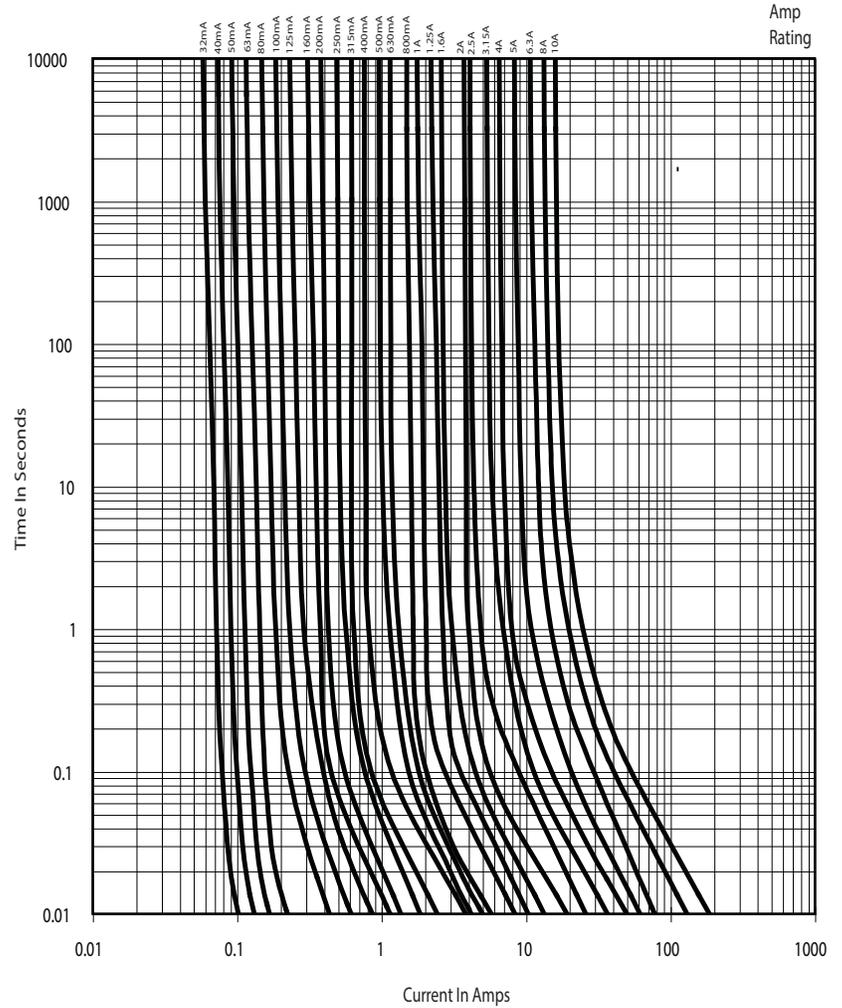
**Dimensions - mm**

Drawing Not to Scale



**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 into a poly bag
TR2	1,500 fuses packed into tape on a reel (19.05mm lead wire length)

Option Code	
Option Code	Description
V	Axial leads - copper tinned wire with nickel plated brass endcaps

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