

## 5 x 20mm, Fast-Acting, Glass Tube Fuses

## S500 Series

**Description**

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

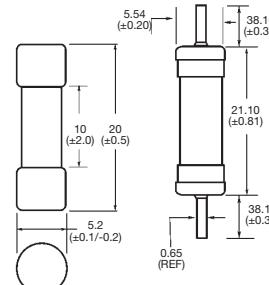
Electrical Characteristics							
In	1.5 In	2.1 In	2.75 In	4 In	10 In		
	min	max	min	max	min	max	
32mA-125mA	60min	30min	—	—	—	—	—
160mA-6.3A	60min	30min	50ms	2sec	10ms	300ms	20ms
8A-10A	30min	30min	50ms	2sec	10ms	400ms	40ms

**Agency Information**

- cURus: File E19180, Guide JDYX2, JDYX8
- SEMIKO Approval: File 913796
- VDE Approval: File 40014109
- BSI Approval: File KM55676
- IMQ Approval: File CA03.00097
- CCC Approval: File 2005010207155694
- PSE Approval File: JET1641-31003-1013, JET1641-31003-1014, JET1641-31003-1015, JET1641-31003-1016

**Dimensions - mm**

Drawing Not to Scale



- Ratings above 6.3A have a 0.8mm diameter lead
- With TR2 packaging code, lead wire length is 19.05mm

**Ordering**

Specify product code

- Insert packaging code prefix before part number. E.g., BK/S500-32-R

Specify option code if desired

- For axial leads, insert "V" between catalog series and amp rating. E.g., S500-V-100-R

Part Number	Voltage Rating Vac	Interrupting Rating at Rated Voltage (50Hz) Vac (amps)	Typical DC Cold Resistance (Ω)*	Typical Melting I <sup>t</sup> t AC <sup>†</sup>	Max Voltage Drop (mV) <sup>‡</sup>	Agency Information						
						cURus	CCC	BSI	VDE	PSE	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	0.0002	2400							
S500-63-R	250	35	12.5	0.00057	2000							
S500-80-R	250	35	5	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
S500-200-R	250	35	6.8	0.016	1700	X	X	X	X		X	X
S500-250-R	250	35	4.3	0.28	1400	X	X	X	X		X	X
S500-315-R	250	35	3.1	0.58	1300	X	X	X	X		X	X
S500-400-R	250	35	2	0.18	1100	X	X	X	X		X	X
S500-500-R	250	35	0.26	0.18	220	X	X	X	X		X	X
S500-630-R	250	35	0.2	0.35	220	X	X	X	X		X	X
S500-800-R	250	35	0.14	0.67	190	X	X	X	X		X	X
S500-1-R	250	35	0.125	0.6	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	0.01	69	120	X	X	X	X	X	X	X
S500-8-R	250	80	0.01	NA	120	X				X	X	X
S500-10-R	250	100	0.008	NA	120	X				X	X	X

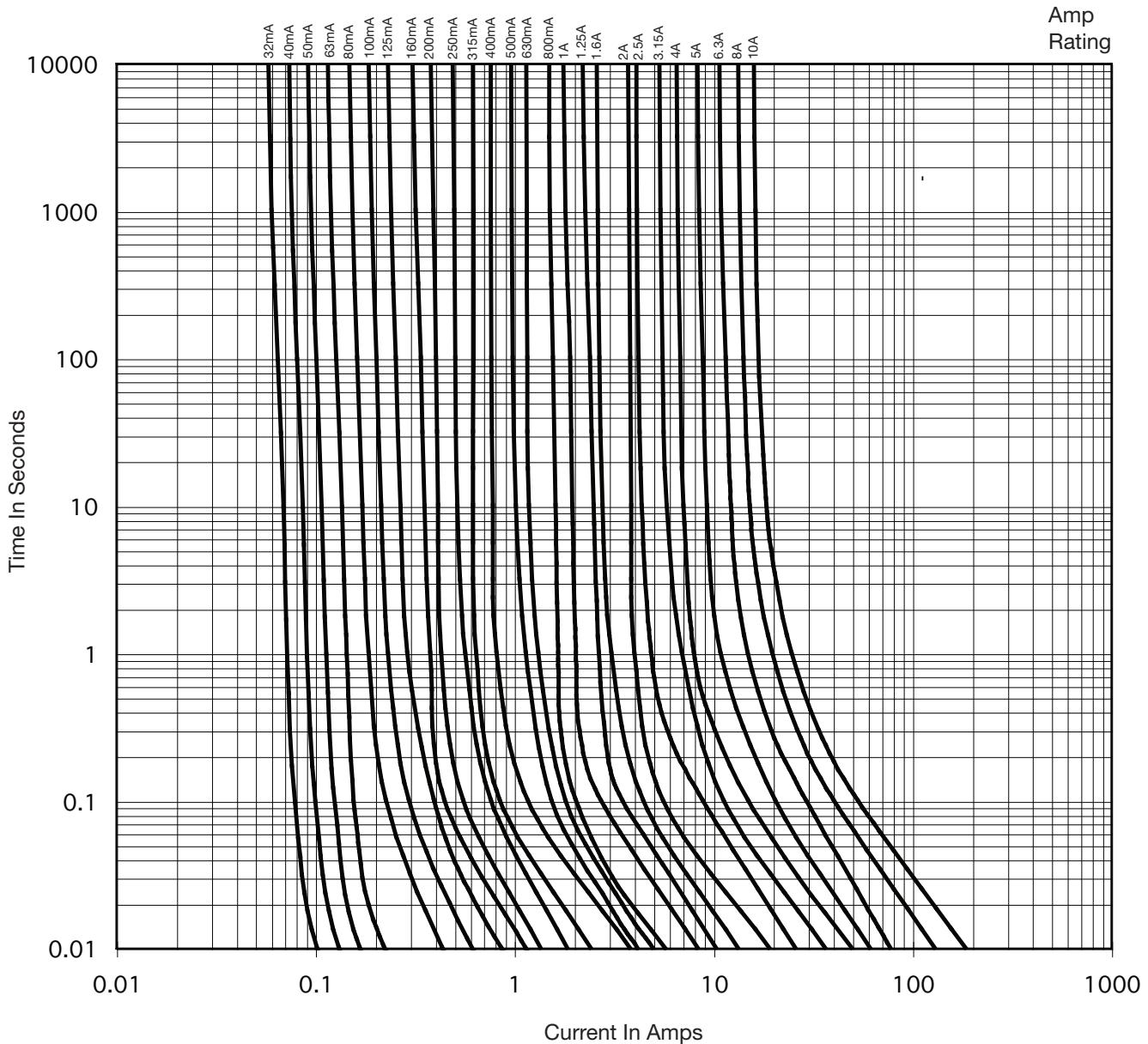
\* DC Cold Resistance (Measured at &lt;10% of rated current)

† Typical Melting I<sup>t</sup>t (I<sup>t</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)

# Time-current Curve

## Nominal Time/Current Characteristics



### Packaging Code

Packaging Prefix	Description
<b>BK</b>	100 fuses packed into a cardboard carton
<b>BK1</b>	1000 fuses packed into a poly bag
<b>TR2</b>	1500 fuses packed into tape on a reel (19.05mm lead wire length)

### Option Code

Option Code	Description
<b>V</b>	Axial leads - copper tinned wire with nickel plated brass endcaps

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