

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 6.3 A have a 0.8 mm diameter lead (axial lead)
- Specify option code if desired
- For axial leads, insert "V" between catalog series and amp rating. E.g. S500-V-100-R

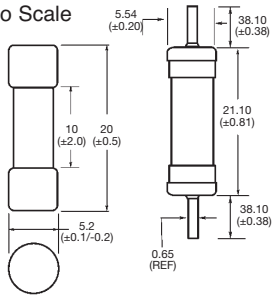
| Electrical Characteristics | | | | | | | |
|----------------------------|--------------------|--------|--------------------|-------|------------------|--------|-------------------|
| I _n | 1.5 I _n | | 2.1 I _n | | 4 I _n | | 10 I _n |
| | min | max | min | max | min | max | max |
| 32mA-125mA | 60 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 ² 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 | |
| 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 | 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 | 0.20 | 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 | 0.60 | 200 | X | X | X | X | X | X | |
| S500-1.25-R | 250 | 35 | 0.096 | 0.84 | 200 | X | X | X | X | X | X | |
| S500-1.6-R | 250 | 35 | 0.066 | 1.6 | 190 | X | X | X | X | X | X | |
| S500-2-R | 250 | 35 | 0.043 | 4.2 | 150 | X | X | X | X | X | X | |
| S500-2.5-R | 250 | 35 | 0.034 | 6.1 | 150 | X | X | X | X | X | X | |
| S500-3.15-R | 250 | 35 | 0.025 | 13 | 130 | X | X | X | X | X | X | |
| S500-4-R | 250 | 40 | 0.021 | 22 | 130 | X | X | X | X | X | X | |
| S500-5-R | 250 | 50 | 0.014 | 42 | 120 | X | X | X | X | X | X | |
| S500-6.3-R | 250 | 63 | 0.010 | 69 | 120 | X | X | X | X | X | X | |
| S500-8-R | 250 | 80 | 0.010 | N/A | 120 | X | X | | X | X | | |
| S500-10-R | 250 | 100 | 0.008 | N/A | 120 | X | X | | X | X | | |

* DC Cold Resistance (Measured at <10% of rated current)
 † Typical Melting I²t (I²t was measured at listed interrupting rating and rated voltage)
 ‡ Maximum Voltage Drop (Voltage drop was measured at +20 °C ambient temperature at rated current)

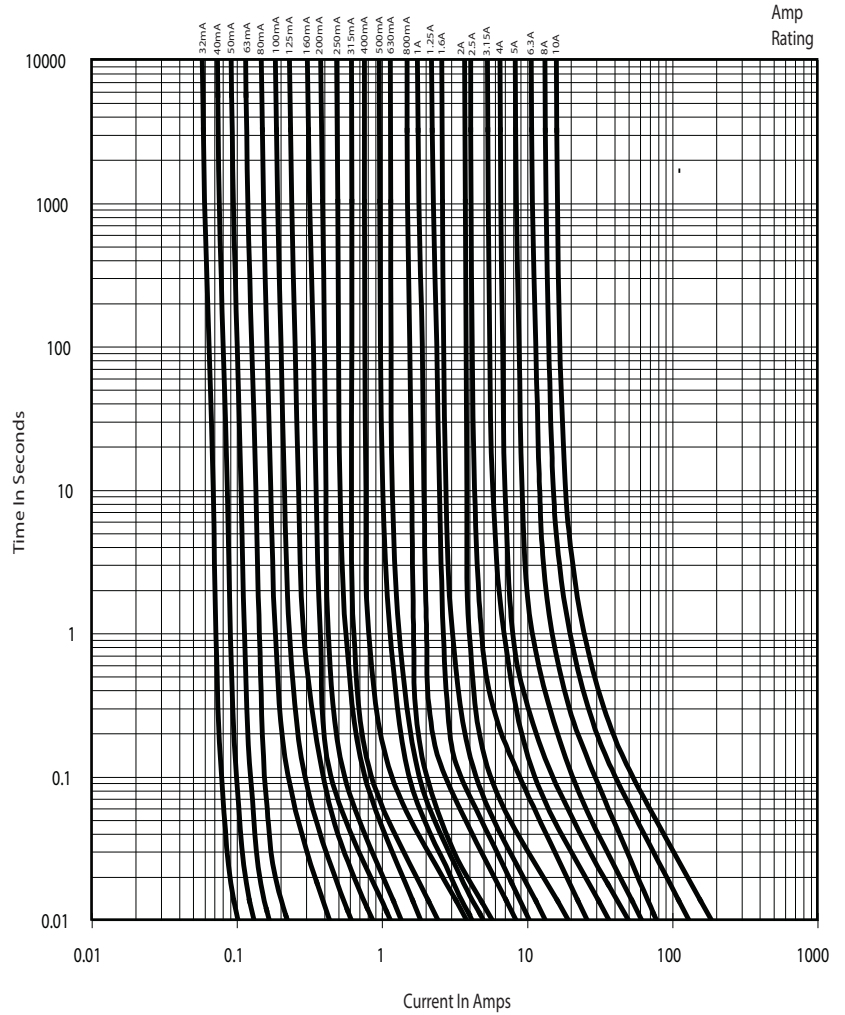
Dimensions - mm

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 |

* Not available for axial lead version

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

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