

5 x 20mm Fuses

S500 Series, Fast-Acting, Glass Tube

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 | | | | | | | |
|----------------------------|------------------|------------------|------------|-------|---------|--------|-----------------|
| I_n | 1.5 I_n min | 2.1 I_n max | 2.75 I_n | | 4 I_n | | 10 I_n max |
| | 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 |

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

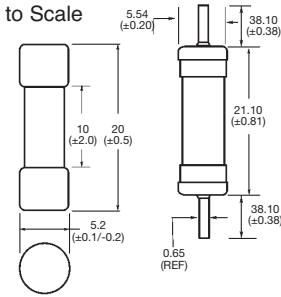
Ordering

Specify product code

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

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

Specify option code if desired

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

Specifications

| Part Number | Voltage Rating Vac | Interrupting Rating (amps) at Rated Voltage (50Hz) Vac | Typical DC Cold Resistance (Ω)* | Typical Melting I [†] 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 | |

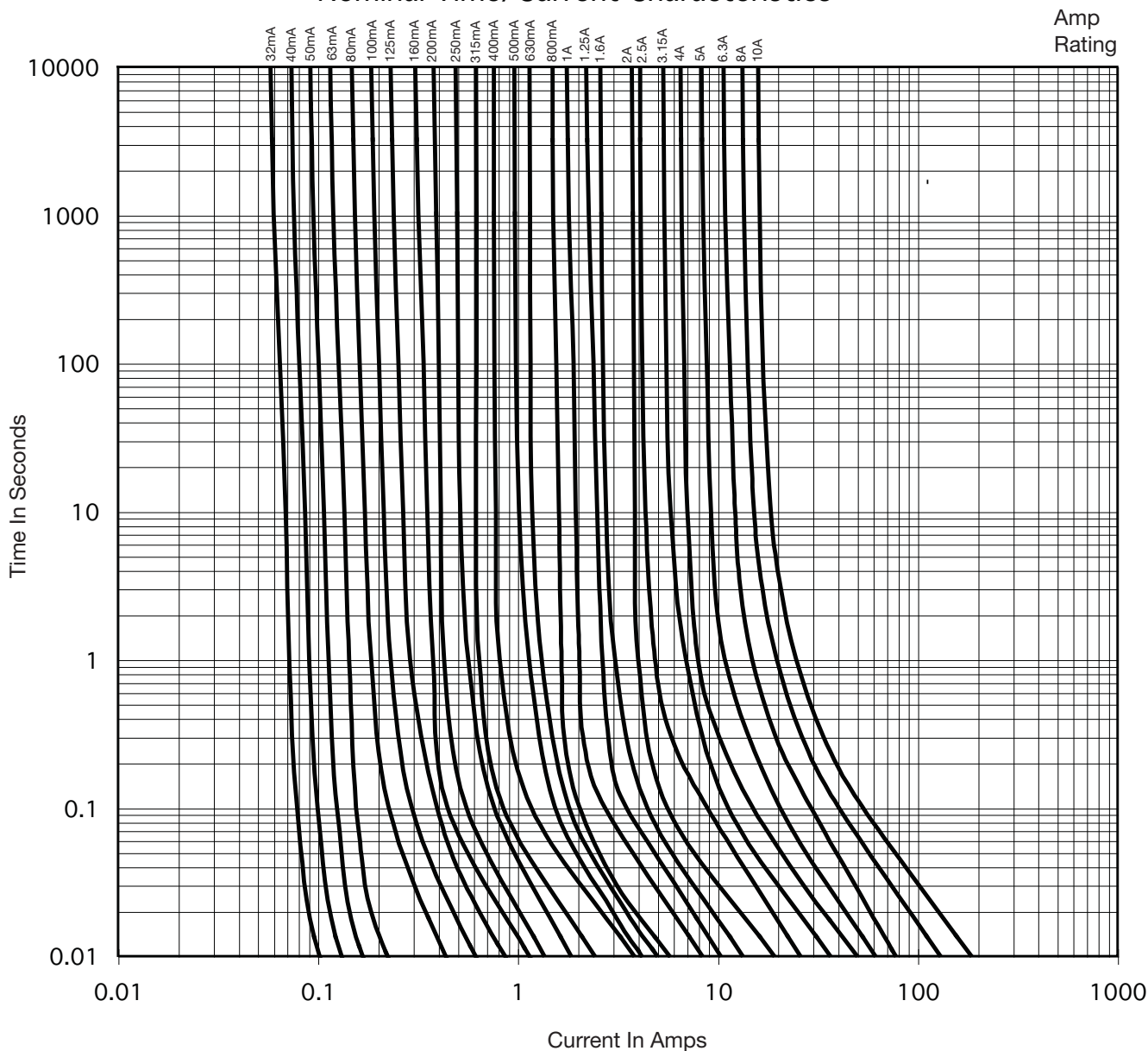
* DC Cold Resistance (Measured at <10% of rated current)

† Typical Melting I[†] (I[†] 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 |
|------------------|---|
| 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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