

5 x 20mm Fuses

S506 Series, Time-Delay, Glass Tube

Description

- Time-delay, low breaking capacity
- Optional axial leads available
- 5 x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Designed to IEC 60127-2/3 (32mA-10A) & extensions:12.5A-15A



| S506 Electrical Characteristics | | | | | | | |
|---------------------------------|---------------|------------|--------|---------|-------|----------|--------|
| I_n | 2.1 I_n max | 2.75 I_n | | 4 I_n | | 10 I_n | |
| | | min | max | min | max | min | max |
| 32mA-100mA | 2 min | 200 ms | 10 sec | 40 ms | 3 sec | 10 ms | 300 ms |
| 125mA-6.3A | 2 min | 600 ms | 10 sec | 150 ms | 3 sec | 20 ms | 300 ms |
| 8A-15A | 2 min | 600 ms | 10 sec | 150 ms | 3 sec | 20 ms | 300 ms |

Agency Information

- UL Recognized Card: Guide JDYX2, File E19180
- CSA Component Acceptance: File 1803366
- cURus Recognition: Guide JDYX8, File E19180
- SEMKO Approval: File 507078, 415434, 806492
- VDE Approval: File 40011926
- BSI Approval: File KM55676
- IMQ Approval: File E1921, CA03.00530
- PSE/JET: File JET1641-31003-1005, JET1641-31003-1006
- CCC Approval: File 2005010207155693, 2002010207011294

Dimensions - mm

Drawing Not to Scale



- Ratings above 4A have a 0.81mm diameter lead

Ordering

Specify product code

- Insert packaging code prefix before part number. E.g. BK/S506-1-R

Specify option code if desired

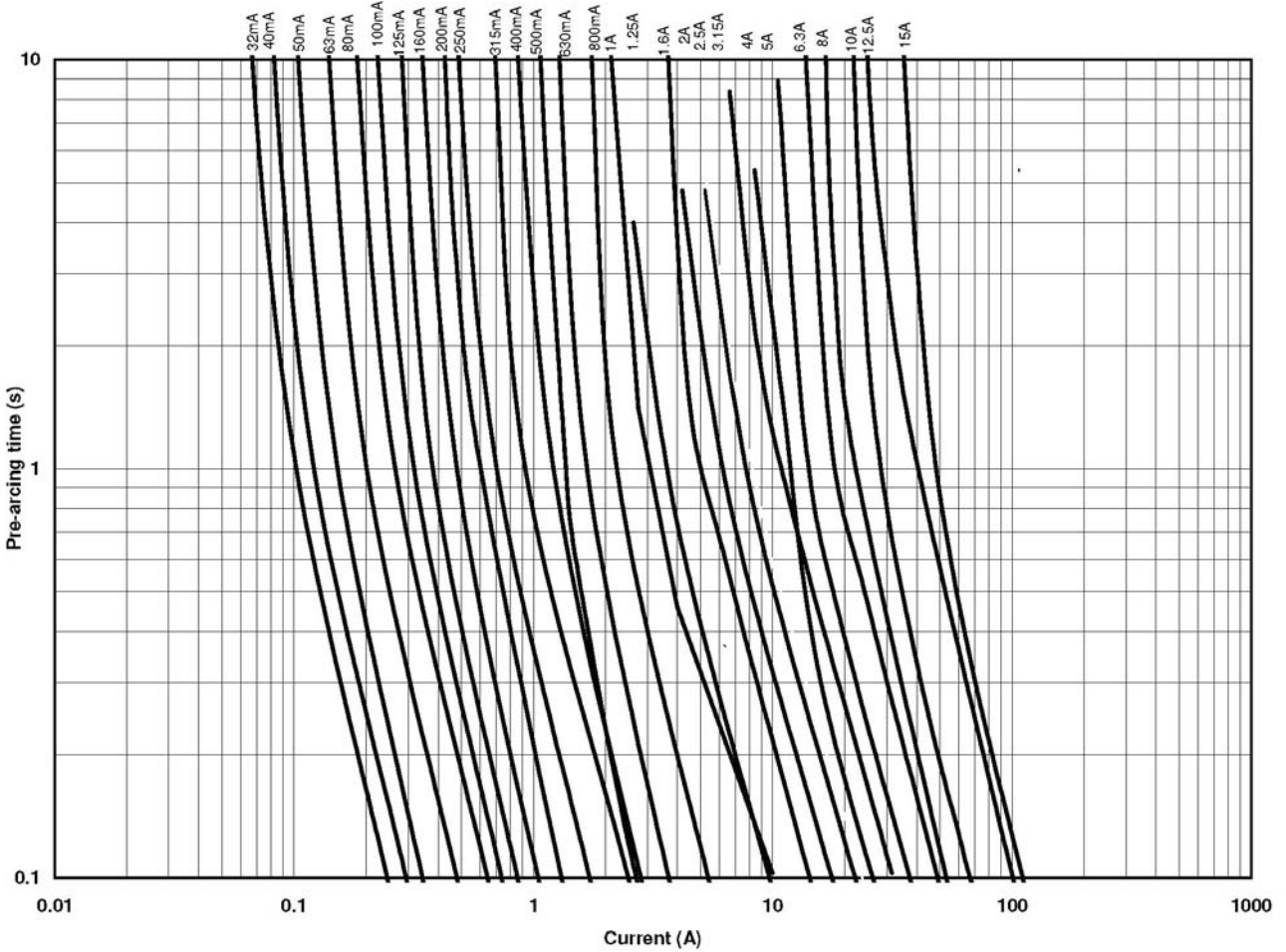
- For axial leads, insert "V" between catalog series and amp rating. E.g. BK/S506-V-2-R

| Product Code | Voltage Rating Vac | Interrupting Rating (amps) at Rated Voltage (50Hz) Vac | Typical DC Cold Resistance (Ω)* | Typical Melting I ^t (amps) | Typical Voltage Drop (mV)‡ | Agency Approvals | | | | | | | | |
|--------------|--------------------|--|--|---------------------------------------|----------------------------|------------------|-----|-----|-------|----|-----|---------|-----|-------|
| | | | | | | IMQ | VDE | BSI | SEMKO | UR | CCC | PSE/JET | CSA | cURus |
| S506-32-R | 250 | 35 | 21.0 | 0.0051 | 1050 | X | X | X | X | X | X | | | |
| S506-40-R | 250 | 35 | 13.90 | 0.0072 | 920 | X | X | X | X | X | X | | | |
| S506-50-R | 250 | 35 | 9.24 | 0.0095 | 800 | X | X | X | X | X | X | | X | |
| S506-63-R | 250 | 35 | 6.96 | 0.021 | 760 | X | X | X | X | X | X | | X | |
| S506-80-R | 250 | 35 | 4.42 | 0.038 | 580 | X | X | X | X | X | X | | X | |
| S506-100-R | 250 | 35 | 2.80 | 0.045 | 490 | X | X | X | X | X | X | | X | |
| S506-125-R | 250 | 35 | 1.97 | 0.063 | 390 | X | X | X | X | X | X | | X | |
| S506-160-R | 250 | 35 | 1.27 | 0.093 | 320 | X | X | X | X | X | X | | X | |
| S506-200-R | 250 | 35 | 1.00 | 0.114 | 340 | X | X | X | X | X | X | | X | |
| S506-250-R | 250 | 35 | 0.640 | 0.265 | 270 | X | X | X | X | X | X | | X | |
| S506-315-R | 250 | 35 | 0.450 | 0.621 | 250 | X | X | X | X | X | X | | X | |
| S506-400-R | 250 | 35 | 0.31 | 0.872 | 210 | X | X | X | X | X | X | | X | |
| S506-500-R | 250 | 35 | 0.183 | 0.827 | 140 | X | X | X | X | X | X | | X | X |
| S506-630-R | 250 | 35 | 0.186 | 1.33 | 150 | X | X | X | X | X | X | | X | X |
| S506-800-R | 250 | 35 | 0.129 | 2.78 | 75 | X | X | X | X | X | X | | X | X |
| S506-1-R | 250 | 35 | 0.0757 | 6.45 | 87.5 | X | X | X | X | X | X | X | X | X |
| S506-1.25-R | 250 | 35 | 0.060 | 10.05 | 86 | X | X | X | X | X | X | X | X | X |
| S506-1.6-R | 250 | 35 | 0.0425 | 21.7 | 82 | X | X | X | X | X | X | X | X | X |
| S506-2-R | 250 | 35 | 0.03325 | 31.6 | 77 | X | X | X | X | X | X | X | X | X |
| S506-2.5-R | 250 | 35 | 0.0255 | 59.4 | 72.5 | X | X | X | X | X | X | X | X | X |
| S506-3.15-R | 250 | 35 | 0.0185 | 96.4 | 68.5 | X | X | X | X | X | X | X | X | X |
| S506-4-R | 250 | 40 | 0.0139 | 71.8 | 67 | X | X | X | X | X | X | X | X | X |
| S506-5-R | 250 | 50 | 0.00985 | 142.5 | 60.5 | X | X | X | X | X | X | X | X | X |
| S506-6.3-R | 250 | 63 | 0.0071 | 237.6 | 54 | X | X | X | X | X | X | X | X | X |
| S506-8-R | 250 | 80 | 0.007 | 255.8 | 55 | X | X | X | X | X | X | X | X | X |
| S506-10-R | 250 | 100 | 0.005 | 450 | 54 | X | X | X | X | X | X | X | X | X |
| S506-12.5-R | 250 | 125 | 0.004 | 1019.5 | 45 | | | | | X | X | X | X | X |
| S506-15-R | 250 | 125 | 0.004 | 1091.7 | 65.5 | | | | | X | X | X | X | X |

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

‡ Typical Voltage Drop (voltage drop was measured at 20°C ambient temperature at rated current)

Nominal Time-Current Characteristics of S506-R



Packaging Code

| Packaging Code Suffix | 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 |

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.

Life Support Policy: Cooper Bussmann does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.