BUSSMann[®]

5 x 20mm Time-Delay, Ceramic Tube Fuses S505 Series

5 x 20mm fuse with

optional axial leads

10I_n

Max

ms

150

150

150

150

Min

ms

5

10

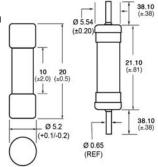
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10





With TR2 packaging code, leadwire length is 19.05mm



RoHS

Agency Information

- UL Recognized Card: Guide JDYX2, File E19180, JDYX8, File E19180
- CSA Component Acceptance: File 53787
- SEMKO: File 816547, 1119019
- VDE: File 40014091, 40024352, 40023140
- BSI: File KM55676
- IMQ: File CA03.00100 and CA03.00529
- PES+JET: File 1641-31003-1009, 1641-31003-1010, 1641-31003-1011, 1641-31003-1012, 1641-31003-2001, 1641-31003-2002
- CCC: File 2002010207011295, CQC11012061930
- KC-Mark: File SU05011-4012A, SU05011-5004A

Ordering

- Specify packaging code (insert packaging code prefix before part number) e.g., BK- (or BK1-/TR2-) S505-1-R
- Specify option codes if desired (for axial leads, insert "V" between catalog series and amp rating) e.g., BK-S505-V-1-R

Amps

<1A

1A-3.15A

4A-6.3A

8A-12A

Description

• Time-delay, high breaking capacity

• Available with optional axial leads

Consult factory for details.

• 5 x 20mm physical size

1.5I_n

Min

min.

60

60

60

30

2.1In

Max

min.

30

30

30

30

• Ceramic tube, silver-plated endcap construction (500mA-800mA),

• Optional sleeve is flexible flouropolymer (UL flammability rating VW-1).

Electrical Characteristics

Мах

s

80s

80s

80s

80s

 $4l_n$

Max

s

5s

5s

5s

5s

Min

ms

50

95

150

150

2.75ln

nickel-plated brass endcap construction (1-12A)

Designed to IEC 60127-2 (500mA-10A) & extension 12A

Min

ms

250

750

750

750

| | Voltage | Interrupting | Typical DC Cold | Typical | Typical | Agency Information | | | | | | | | |
|-----------------|--------------|---------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------|--------------------|-----|-------|-------|--------------------------|-------------|------|-----|-----|
| Product Code | Rating AC | Rating at Rated Voltage (50Hz) AC ¹ | Resistance (Ω) ² | Pre-arching I ² t (A ² s)AC ³ | Voltage Drop (mV)⁴ | IMQ⁵ | VDE | SEMKO | cURus | CCC/ CQC ⁵ | PSE/ JET | CSA⁵ | KC⁵ | BSI |
| S505-500-R | 250 | 1500 | 0.5070 | 0.188 ^x | 295 | Х | Х | Х | Х | Х | | Х | | Х |
| S505-800-R | 250 | 1500 | 0.2370 | 0.632 ^x | 189 | Х | Х | Х | Х | Х | | Х | | Х |
| S505-1-R | 250 | 1500 | 0.1401 | 1.28 | 152.5 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-1.25-R | 250 | 1500 | 0.1075 | 2.22 | 150 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-1.6-R | 250 | 1500 | 0.0700 | 6.78 | 125 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-2-R | 250 | 1500 | 0.0545 | 9.60 | 118.5 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-2.5-R | 250 | 1500 | 0.0395 | 16.60 | 115 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-3.15-R | 250 | 1500 | 0.0305 | 36.60 | 102.5 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-4-R | 250 | 1500 | 0.0185 | 38.45 [×] | 86.5 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-5-R | 250 | 1500 | 0.0131 | 71.30 ^x | 77.5 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-6.3-R | 250 | 1500 | 0.0102 | 111 [×] | 75 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| S505-8-R | 250 | 1500 | 0.0077 | 228 ^x | 73 | Х | Х | Х | Х | X6 | Х | Х | Х | Х |
| S505-10-R | 250 | 1500 | 0.0061 | 397 | 72 | Х | Х | Х | Х | X6 | Х | Х | Х | Х |
| S505-12-R | 250 | 1000 | 0.0053 | 713.7 ^x | 77 | | Х | | Х | | | | | |

 Interrupting ratings: 500mA to 10A were measured at 70% to 80% PF on AC,12A was measured at 100% PF on AC.

2. Typical DC Cold Resistance (measured at <10% of rated current).

 Typical Pre-Arching I^{*}t (measured at listed interrupting rating and rated voltage if not specified); With "X" specified, the typical I^{*}t value is measured at 10 times of rated current under DC. on fuse endcap for -V Rev.

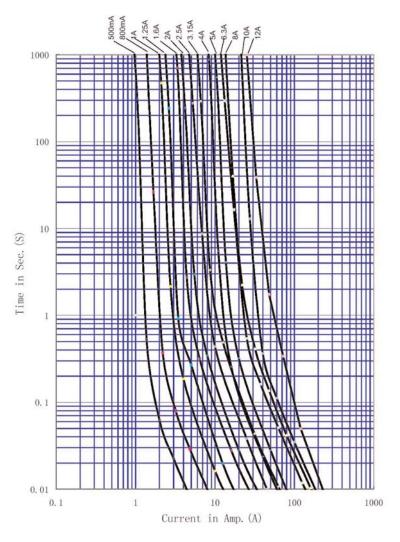
6. CQC only.



Typical Voltage Drop(Voltage Drop was measured at 20°C ambient temperature at rated current).
No room for "CSA" & "KC" on the fuse endcap for Non-V Rev. No room for "IMQ", "CQC' or "KC"



Time-Current Curves



| | Packaging Code | | | | | | |
|-----------------------|-------------------------------------------------------------------|--|--|--|--|--|--|
| Packaging Code Prefix | Description | | | | | | |
| BK- | 100 fuses packed into a cardboard carton | | | | | | |
| BK1- | 1000 fuses packed into a poly bag | | | | | | |
| TR2- | 1500 fuses on tape and reel (19.05mm leadwire length) | | | | | | |
| | Option Code | | | | | | |
| Option Code | Description | | | | | | |
| -V | Axial leads – copper tinned wire with nickel-plated brass endcaps | | | | | | |

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