## BUSSMann<sup>®</sup>

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

5 x 20mm fuse with

optional axial leads

10I<sub>n</sub>

Max

ms

150

150

150

150

Min

ms

5

10

10

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<sub>n</sub>

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 <sup>1</sup>	Resistance (Ω) <sup>2</sup>	Pre-arching I <sup>2</sup> t (A <sup>2</sup> s)AC <sup>3</sup>	Voltage Drop (mV)⁴	IMQ⁵	VDE	SEMKO	cURus	CCC/ CQC <sup>5</sup>	PSE/ JET	CSA⁵	KC⁵	BSI
S505-500-R	250	1500	0.5070	0.188 <sup>x</sup>	295	Х	Х	Х	Х	Х		Х		Х
S505-800-R	250	1500	0.2370	0.632 <sup>x</sup>	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 <sup>×</sup>	86.5	Х	Х	Х	Х	Х	Х	Х	Х	Х
S505-5-R	250	1500	0.0131	71.30 <sup>x</sup>	77.5	Х	Х	Х	Х	Х	Х	Х	Х	Х
S505-6.3-R	250	1500	0.0102	111 <sup>×</sup>	75	Х	Х	Х	Х	Х	Х	Х	Х	Х
S505-8-R	250	1500	0.0077	228 <sup>x</sup>	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 <sup>x</sup>	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<sup>\*</sup>t (measured at listed interrupting rating and rated voltage if not specified); With "X" specified, the typical I<sup>\*</sup>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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