## 5 x 20mm Fuses

# S501 Series, Fast-Acting, Ceramic Tube

### **Description**

- · Fast-acting high breaking capacity
- · Optional axial leads available
- 5 x 20mm physical size
- · Ceramic tube with silver-plated (50mA-400mA) and nickel-plated (500mA-10A) endcaps.
- Designed to IEC 60127-2

Electrical Characteristics								
	1.5 l <sub>n</sub>	2.1 l <sub>n</sub>	1 l <sub>n</sub>   2.75 l <sub>n</sub>   4 l <sub>n</sub>			In	10 l <sub>n</sub>	
ln	min	max	min	max	min max		max	
50mA-4A	60 min	30 min	10 ms	2 sec	3 ms	300 ms	20 ms	
5A-6.3A	60 min	30 min	10 ms	3 sec	3 ms	300 ms	20 ms	
8A-10A	30 min	30 min	40 ms	20 sec	10 ms	1s	30 ms	

#### **Agency Information**

 cURus: File E19180, Guide JDYX2, JDYX8 CSA Component Acceptance: File 53787

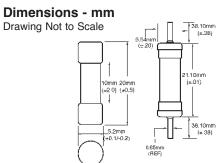
 SEMKO Approval: File 413779 • VDE Approval: File 40015517

• IMQ Approval: File EB405 CCC Approval: File 2005010207155691

BSI Approval: File KM55676







#### **Ordering**

- · Specify packaging, product, and option code
- Ratings above 6.3A have a 0.8mm diameter lead
- With TR2 packaging code, lead wire length is 19.05mm

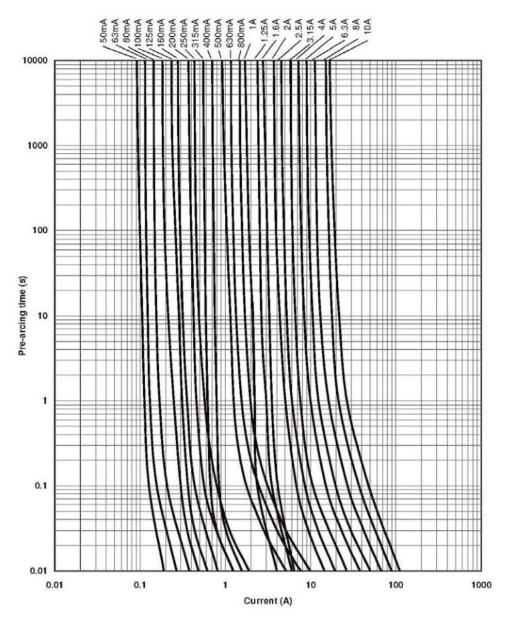
	Specifications												
	Voltage	Interrupting Rating at		Typical	Typical								
Product	Rating	Rated Voltage (50Hz)	<b>Cold Resistance</b>	Melting I2t	Voltage	IMQ	VDE	BSI	SEMKO	cURus	CCC	MITI/	CSA
Code	Vac	Vac	(Ω)*	(amps)	Drop (mV)†							JET	
S501-50-R	250	1500	157.5	0.0017	9000	Χ	Χ	Х	Χ	X	Х		Х
S501-63-R	250	1500	39.0	0.0005	3300					X	Х		Х
S501-80-R	250	1500	27.9	0.0011	2600					Х			Х
S501-100-R	250	1500	20.0	0.0018	2300					Х			Х
S501-125-R	250	1500	12.3	0.0037	1900					X			Х
S501-160-R	250	1500	8.5	0.008	1600	Х	Χ	Х	Χ	Х	Х		Х
S501-200-R	250	1500	6.0	0.02	1350	Χ	Χ	Х	Χ	Х	Х		Х
S501-250-R	250	1500	4.4	0.027	1300	Х	Χ	Х	Х	Х	Х		Х
S501-315-R	250	1500	3.3	0.01	1400	Х	Χ	Х	Χ	Х	Х		Х
S501-400-R	250	1500	2.2	0.018	1200					Х			Х
S501-500-R	250	1500	0.460	0.038	1050	Х	Χ	Х	Х	Х	Х		Х
S501-630-R	250	1500	0.340	0.064	1200					Х			Х
S501-800-R	250	1500	0.245	0.097	490	Χ	Χ	Х	Χ	X	Х		Х
S501-1-R	250	1500	0.231	0.146**	330		Χ		Χ	X	Х	Χ	
S501-1.25-R	250	1500	0.176	0.313**	297				Χ	Х	Х	Χ	
S501-1.6-R	250	1500	0.113	0.748**	239		Χ		Χ	Х	Х	Χ	
S501-2-R	250	1500	0.073	2.0	205	Χ	Χ	Х	Χ	X	Х	Χ	X‡
S501-2.5-R	250	1500	0.053	3.9	190	Х	Χ	Х	Χ	Х	Х	Χ	X‡
S501-3.15-R	250	1500	0.037	8.1	160	Χ	Χ	Χ	Χ	Х	Х	Х	X‡
S501-4-R	250	1500	0.027	14	160	Х	Χ	Χ	Χ	Х	Χ	Χ	X‡
S501-5-R	250	1500	0.019	25	155	Х	Χ	Х	Χ	Х	Х	Χ	X‡
S501-6.3-R	250	1500	0.014	48	150	Χ	Χ	Χ	Χ	Х	Χ		Х
S501-8-R	250	1500	0.009	N/A	N/A	Χ	Χ	Х	Χ	X			Х
S501-10-R	250	1500	0.008	N/A	N/A	Х	Χ	Х	Χ	Х			Х

- DC Cold Resistance (measured at <10% of rated current)
  I't of 1A, 1.25A & 1.6A is measured at 10In DC
  Typical Voltage Drop (voltage drop was measured at 20°C ambient temperature at rated current)
  CSA approvals on these ratings will not be marked on the fuse cap

**COOPER** Bussmann

Data Sheet 2051 0209 BU-SB08724 Page 1 of 2

#### **Time -Current Curve**



Packaging Code					
Packaging Code	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.

© 2009 Cooper Bussmann St. Louis, MO 63178 www.cooperbussmann.com







Data Sheet 2051



0209 BU-SB08724 Page 2 of 2