S500

5 mm x 20 mm Fast-acting glass tube fuses

RoHS



Product features

- Fast-acting, low breaking capacity
- Optional axial leads available
- 5 mm x 20 mm physical size
- Glass tube with silver-plated (32-125 mA) and nickel-plated (160 mA-10 A) endcaps
- Designed to IEC 60127-2 (160 mA-10 A)

Electrical Characteristics							
	1.5 In	2.1 In	2.75 In		4 In		10 In
In	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 information

- Specify product code
- Insert packaging code prefix before part number. E.g. BK/S500-32-R
- Ratings above 6.3 A have a 0.8 mm diameter lead (axial lead)
- Specify option code if desired
- For axial leads, insert "V" between catalog series and amp rating. E.g. S500-V-100-R

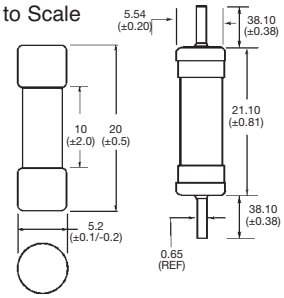
Specifications

Part Number	Voltage Rating Vac	Interrupting Rating (amps) at Rated Voltage (50Hz) Vac	Typical DC Cold Resistance (Ω)*	Typical Melting I ²t 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	

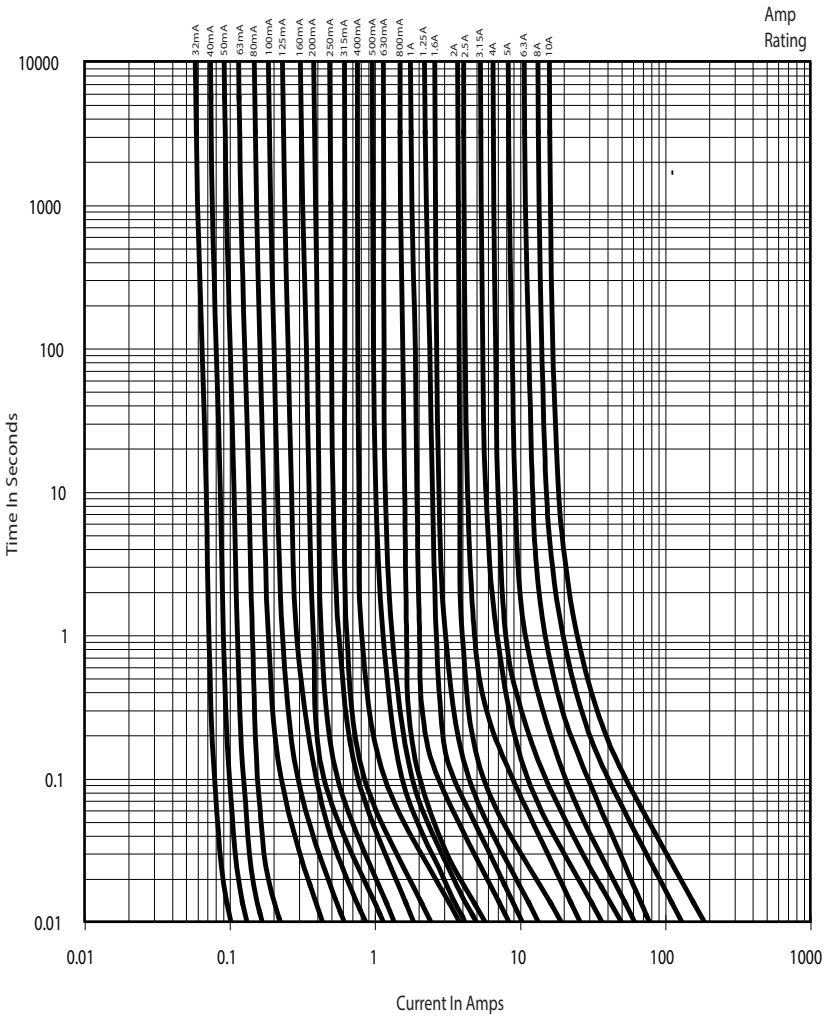
* DC Cold Resistance (Measured at <10% of rated current)
† Typical Melting I ²t (I^2t was measured at listed interrupting rating and rated voltage)
‡ Maximum Voltage Drop (Voltage drop was measured at +20 °C ambient temperature at rated current)

S500
5 mm x 20 mm Fast-acting glass tube fuses

Dimensions - mm
Drawing Not to Scale



Time-current Curve



Packaging Code	
Packaging Prefix	Description
BK	100 fuses packed into a cardboard carton
BK1*	1,000 fuses packed into a poly bag

* Not available for axial lead version

Option Code	
Option Code	Description
V	Axial leads - copper tinned wire with nickel plated brass endcaps

Life Support Policy: Eaton 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.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

Eaton
Electronics Division
1000 Eaton Boulevard
Cleveland, OH 44122
United States
eaton.com/electronics

© 2019 Eaton
All Rights Reserved
Printed in USA
Publication No. 2052 BU-SB08761
August 2019

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.

Powering Business Worldwide