ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	RJS 100
Manufacturer:	Bel Fuse Inc.
Package:	Radial Bend Cylinder
Availability:	Please confirm with sales

Product Page:

https://antrexco.com/product/details/bel-fuse-inc/rjs-100.html

Request a Quote:

Submit RFQ for this part

Scan for product page

Contact Information

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Website: https://antrexco.com

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

RJSD0303

RJS Fuses are primarily intended for use in telecommunication circuit applications requiring low current protection with high surge tolerance. They are typically used to replace heat coil type devices. They are designed to be placed between the line input and the surge arresting components (mov. gas tube, zenor diode, air gaps, etc.)

These fuses will withstand transient surge currents generated by lightning in accordance with the attached table.

RJS fuses guard protected circuitry against sustained overload or short circuit conditions. Such sustained overloads may be generated by accidental contact between utility cables and phone lines (power line cross).

RJS Fuse are used in circuits to obtain compliance with the test requirements specified in UL 1950/60950 and Bellcore GR 1089.

Electrical Characteristics *(UL/CSA STD. 248-14)*

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
135%	N/A	1 Hr
200%	3 sec	20 sec
500%	100 msec	1.5 sec
1000%	30 msec	300 msec

Approvals

Safety Agency Approvals	Interrupting Rating	Power Factor	Intended Application
Recognized File no. E20624	10,000A, AC@ 125V	0.7 - 0.8	General Purpose
	200A, AC@ 250V	0.7 - 0.8	Primary Protection
Acceptance File no. LR39772	100A, AC@ 350V	Resistive	Ballast Protection
	60A, AC@ 600V	Resistive	Telecom Protection

Operating Temperature

-55°C to +125°C

Environmental Specification

Soldering Techniques & Compatibility
Wave Solder: 260°C, 10 sec max. (MIL-STD-202, Method 210)

Shock
MIL-STD-202, Method 213, Test Condition I
(100 G's peak for 6 milliseconds)

Vibration
MIL-STD-202, Method 201 (10-55 Hz, 0.06 inch, total excursion)

Salt Spray
MIL-STD-202, Method 101, Test condition B (48 hrs)

Insulation Resistance
MIL-STD-202, Method 302, Test Condition A
(After Opening) 10,000 ohms minimum

Solderability
MIL-STD-202, Method 208

Resistance to solder Heat
MIL-STD-202, Method 210, Test Condition C (260°C, 20 sec)

Thermal Shock
MIL-STD-202, Method 107, Test Condition B (-65°C to+125°C)

Operating Temperature
-55°C to +125°C

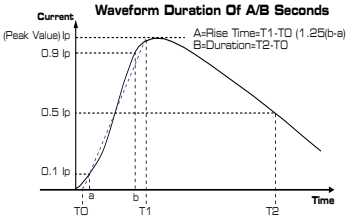
Catalog Number	Ampere Rating	Voltage Rating	Typical Cold Resistance (ohm)	Volt-drop @100% *In* (Vol) max.	Melting I^2T< 10 mSec (A^2 Sec)	Melting I^2T @10 *In* (A^2 Sec)	Peak Surge Current (Amp) 50 Pulses 1,000V 10 uS x 1000 uS	Maximum Power Dissipation (W)
RJS 100	100mA	600V	17	2.5	0.09	0.11	6	0.41
RJS 125	125mA	600V	11	2.1	0.13	0.17	8	0.43
RJS 160	160mA	600V	7	1.8	0.21	0.26	10	0.46
RJS 200	200mA	600V	4.8	1.5	0.33	0.41	13	0.49
RJS 250	250mA	600V	3.2	1.3	0.51	0.64	16	0.53
RJS 300	300mA	600V	2.1	1.1	0.80	1.00	20	0.56
RJS 350	350mA	600V	1.7	1.0	1.0	1.3	24	0.58
RJS 400	400mA	600V	1.4	0.9	1.2	1.6	29	0.60
RJS 500	500mA	600V	0.9	0.78	1.9	2.4	36	0.64
RJS 600	600mA	600V	0.6	0.66	3.0	3.8	46	0.68
RJS 700	700mA	600V	0.49	0.61	3.8	4.8	54	0.70
RJS 750	750mA	600V	0.44	0.58	4.3	5.5	58	0.71
RJS 1	1 A	600V	0.26	0.47	7.4	9.3	80	0.77
RJS 1.25	1.25 A	600V	0.17	0.40	12	15	100	0.82
RJS 1.5	1.5 A	600V	0.13	0.35	17	21	120	0.86
RJS 2	2 A	600V	0.08	0.29	28	36	155	0.93
RJS 2.5	2.5 A	600V	0.05	0.24	44	56	190	0.99
RJS 3	3 A	600V	0.033	0.20	69	87	230	1.06
RJS 4	4 A	600V	0.022	0.17	108	136	300	1.13
RJS 5	5 A	600V	0.015	0.15	169	212	370	1.20

Consult manufacturer for other ratings

Power Cross (Telecom) Rating (Fuse Rated 0.1 - 1.5A)

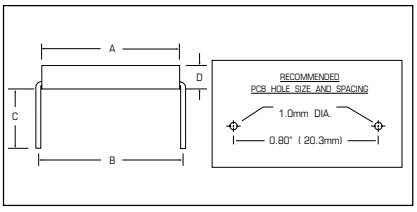
Overload Current	Voltage	Clearing Time Limit
135% Fuse rating	600V	Less than 1 hour
200% Fuse Rating	600V	Less than 20 seconds
2.2A	600V	Less than 10 minutes
7A	600V	Less than 1 seconds
40A	600V	Less than 50 msec
60A	600V	Less than 20 msec

Double - exponential Impulse Waveform



Mechanical Dimensions

	Standard Lead	Short Lead
A	0.76"+/-0.01" (19.3+/-0.2mm)	0.76"+/-0.01" (19.3+/-0.2mm)
B	0.80"+/-0.05 (20.3+/-1.27mm)	0.80"+/-0.05 (20.3+/-1.27mm)
C	0.4" Typical (10.0mm)	0.11"+/-0.01" (2.8+/-0.25mm)
D	0.18" max (4.6mm)	0.18" max (4.6mm)



Physical Specification

Materials
Body: Glass;
Lead Wire: Tin-lead plated Copper, Diameter 0.032"

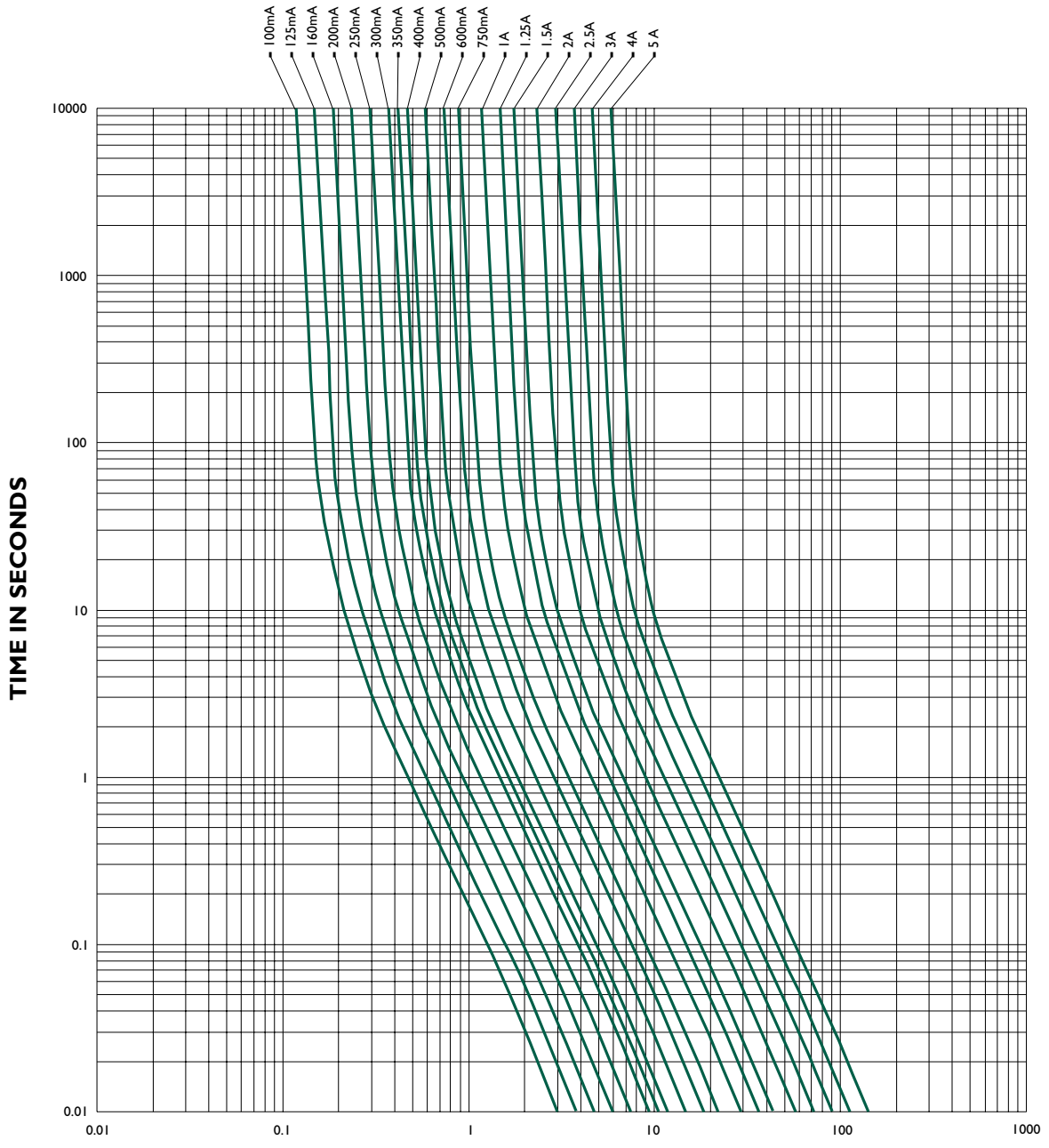
Marking
On fuse: "**bel**", "Type""Current Rating" "Voltage Rating" "Appropriate Safety Logos"
On label: Above info; Interrupting Rating plus "CE"

Packaging
In bulk : 2,000 pcs per box. (standard Lead) 500 pcs per box. (short Lead)

Specifications subject to change without notice

ORDERING INFORMATION SEE PAGES 67 & 68

RJS - TIME CURRENT CHARACTERISTIC CURVE



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NOTE - see important information under "User Guide"on P.08

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