DESCRIPTION

PRODUCT COVERED:

USR,CNR Recognized – Component - Supplemental Fuse, Series SUT 6.3x32, rated 12 A – 40 A; Series SUT-H 6.3x32, rated 10 A – 40 A.

RATINGS:

Model Cat. No.	Part numbers	Ampere Ratings(A)	Time Delay (Y/N)	Voltage Rating		Interrupting Rating, A			
				AC	DC	AC	Power Factor(%)	DC	Time Const.
SUT 6.3x32	8020.0603.XX thru 8020.0607.XX	12 – 30	N	125 250	-	10000 500	70-80	-	-
	8020.0608.XX	40	N	125 250	-	10000 500	70-80	-	-
				-	80	-	-	500	≤3ms
SUT-H 6.3x32	8020.0602.H.XX thru 8020.0607.H.XX	10 – 30	N	125 250	-	10000 500	70-80	-	-
				-	100	-	-	500	≤3ms
	8020.0608.H.XX	40	N	125 250	-	10000 500	70-80	-	-
				-	80	-	-	500	≤3ms
	8020.0609.H.XX	**50**	**N**	**125 250**	**-**	**10000 500**	**70-80**	**-**	**-**
				-	**70**	**-**	**-**	**500**	**≤3ms**

ELECTRICAL CHARACTERISTICS:

These fuses have the following clearing time characteristics:

Cat. No.	Ampere Ratings (A)	Test current (% of rating)	Clearing Time Limits
SUT 6.3x32 ;	12 - 40	135	60 min maximum
		200	5s – 60s
*SUT-H 6.3x32	10 - **50**	135	60 min maximum
		200	5s – 60s

GENERAL:

These fuses may be provided with or without pigtail assemblies.

These fuses are supplemental fuses intended for use where branch circuit protection is not required.

These fuses are not current limiting.

Products designated USR have been investigated using requirements contained in UL 248-1 the Standard for Low-Voltage Fuses – Part 1: General Requirements and UL248-14, the Standard for Supplemental Fuses.

Products designated CNR have been investigated using requirements contained in C22.2.1-00 the Standard for Low-Voltage Fuses – Part 1: General Requirements and CSA C22.2 No. 248.14-00, the Standard for Supplemental Fuses.

The Part numbers of Series SUT 6.3x32 and SUT-H 6.3x3.2 are designated as follows for commercial used reference:

8020.0603	.H	.	XX
I	II		III

I: - 8020.0602 thru 8020.0608 denoting order designation, refer to below table for details.

Ampere Rating	Order designation
10A	8020.0602
12A	8020.0603
15A	8020.0604
20A	8020.0605
25A	8020.0606
30A	8020.0607
40A	8020.0608
50A	**8020.0609**

II: - Blank, denoting series SUT 6.3x32 rated 12A-40A;
* .H, denoting series SUT-H 6.3x32 rated **10A-50A.**

III: - Blank denoting 10PCS box packing;
G denoting bulk pack;
PT denoting bulk pack with pigtail fuse.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

Fuses covered by this Report are intended for supplementary overcurrent protection where branch circuit or equivalent applications are not involved.

Use - For use only in equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

Conditions of Acceptability –

1. All tests on SUT 6.3x32 rated 12A-30A and SUT-H 6.3x3.2 rated 10A-25A were conducted with the fuses soldered to a printed circuit boards with a trace of 2.5 mm wide.

*1A. All tests on SUT 6.3x32 rated 40A and SUT-H 6.3x3.2 rated **30A-50A** were conducted with the fuse secured in the test fixture shown in Figure A of the standard.

2. Clearing times were evaluated at 135% and 200%, of rated current, and were found to be within the following limits:

Type	Ampere Ratings(A)	135%	200%
SUT 6.3x32	12 - 40	60 min max	5s-60s
*SUT-H 6.3x32	10 - **50**		

3. The maximum temperature rise reached on fuse type SUT, part number 8020.0607.XX, rated 30 A, during the Verification of Temperature Rise And Current-Carrying Capacity Test was 83°C. Consideration shall be given to monitoring temperatures on these products in the end-use equipment.

4. The maximum temperature rise reached on fuse type SUT, part number 8020.0608.XX, rated 40 A, during the Verification of Temperature Rise And Current-Carrying Capacity Test was 81.2°C on body and 59.5°C on contact. Consideration shall be given to monitoring temperatures on these products in the end-use equipment.

4A. The maximum temperature rise reached on fuse type SUT-H, part number 8020.0609.XX, rated 50 A, during the Verification of Temperature Rise And Current-Carrying Capacity Test was 97.6°C on body and 89.3°C on contact. Consideration shall be given to monitoring temperatures on these products in the end-use equipment.

5. The maximum temperature rise reached on fuse type SUT-H, part number 8020.0605.H.XX, rated 20 A, during the Verification of Temperature Rise And Current-Carrying Capacity Test was 79.3°C on body and 76.4°C on contact. Consideration shall be given to monitoring temperatures on these products in the end-use equipment.

6. The maximum temperature rise reached on fuse type SUT-H, part number 8020.0606.H.XX, rated 25 A, during the Verification of Temperature Rise And Current-Carrying Capacity Test was 90.9°C on body and 84.9°C on contact. Consideration shall be given to monitoring temperatures on these products in the end-use equipment.

7. The maximum temperature rise reached on fuse type SUT-H, part number 8020.0607.H.XX, rated 30 A was considered be represented by temperature rise on fuse type SUT-H rated 40 A.

8. The maximum temperature rise reached on fuse type SUT-H, part number 8020.0608.H.XX, rated 40 A was considered be represented by temperature rise on fuse type SUT, part number 8020.0608.XX, rated 40 A.