File E72928
Project 10ME07748

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REPORT

on

COMPONENT - ELECTROMAGNETIC INTERFERENCE FILTERS

*Schurter AG
Luzern, Switzerland

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D E S C R I P T I O N

PRODUCT COVERED:

USR, CNR – Component, Appliance Filters, Model Series 8843, followed by additional suffixes. Refer to Nomenclature Breakdown for type designation.

GENERAL:

These devices are EMI filters intended for incorporation in appliances. They are housed in a metal housing and incorporate with terminals for factory wiring.

ELECTRICAL RATING:

Model No.	Voltage (V ac)	Current (A)	Number of Phases	Frequency (Hz)	Maximum Ambient Temperature (°C)
*8843 Series	125/250	1, 3, 6, 10	1	50/60	40

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NOMENCLATURE:

Type Code and Description for 8843 Series Filters

Example:

P/N	8843	-	8	7	1	1	-	1	1	1	-	00
No.	I			II	III	IV		V	VI	VII		VII

No.	P/N Character Position	Mark	Description
I	1-4	8843	Model Number Type Designation: 8843
	5	-8	
II	6	7	Current Rating, in Ampere: 1 = 1 A 3 = 3 A 5 = 6 A 7 = 10 A
III	7	1	Fuse Holder: 1 = 2-pole fuse holder
IV	8	1	Mounting: 1 = Scew Mounting
V	9	-1	X-Capacitor: 1 = X2, 100 nF
VI	10	1	Y-Capacitor: 0 = without Y-Capacitor 1 = Y2, 2.2 nF
VII	11	1	Terminals: 1 = Quick Connect 6.3 x 0.8 mm
VIII	12-13	-00	Customer Specific (Optional)

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ENGINEERING CONSIDERATIONS:

USR indicates the filters have been evaluated to the Standard for Electromagnetic Interference Filters, UL 1283, Sixth Edition.

CNR indicates investigation to the requirements of the Canadian Standard for Electromagnetic Interference (EMI) Filters, CSA C22.2 No. 8-13, Fifth Edition.

CONDITIONS OF ACCEPTABILITY:

*For use only in complete equipment where the acceptability of the combination has been determined by UL LLC. The following items shall be evaluated to determine the acceptability for use in the end product.

1. The filter shall be installed within an overall enclosure suitable for the end product application.

2. The filter shall be installed in compliance with the mounting, terminal, spacing and segregation of the end application.

*3. Leakage current measurements were conducted for reference only and did not exceed 0.5 mA. The leakage current in the end application shall be considered.

4. Spacings between terminals and dead metal parts shall comply with the end product requirements.

5. The terminals have not been evaluated for field wiring. The acceptability of the grounding terminal shall be determined in the end-product.

6. These devices may be provided with double pole Attachment Plugs which allow the fusing of two lines. Acceptability of this arrangement must be evaluated in the end use application. Fuses shall not be provided in the grounded conductor, unless considered acceptable by the end use application.conductor.

7. If the end product is rated more than 125 V, a marking must be provided adjacent to the filter indicating "Use Only A 250 V Fuse".

8. Suitability of fuses must be determined in the end use application.

9. The components were submitted and evaluated at a maximum manufacturer’s recommended ambient as indicated in the Electrical Ratings Table. Suitability of the filter to operate in ambients other than those specified, needs to be determined in the end-use application. The case temperature shall be measured and the suitability determined in the end use application.

10. The Abnormal Operation/Limited Short Circuit Test (UL 1283, Cl. 32; CSA C22.2 No. 8, Cl. 6.14) was performed on the following models using a short circuit current and fuse rating as indicated

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below.

Model	Represented Models	Test Current, A	Fuse rating, A
***8843-9711-111-00**	8843 Series	2000	15

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