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REPORT

On

COMPONENT - ELECTROMAGNETIC INTERFERENCE FILTERS

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YURI-GUN, Japan

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DESCRIPTION

PRODUCT COVERED:

USR Component - Electromagnetic Interference Appliance Filters,

Models RSEN-2003, RSEN-2006, RSEN-2010, RSEN-2016, RSEN-2020, RSEN-2030, RSEN-2040, RSEN-2050 and RSEN-2060.

Models RSEN-2003L, RSEN-2006L, RSEN-2010L, RSEN-2016L, RSEN-2020L, RSEN-2030L, RSEN-2040L, RSEN-2050L and RSEN-2060L.

Models RSAN-2003, RSAN-2006, RSAN-2010, RSAN-2016, RSAN-2020, RSAN-2030, *RSAN-2040, RSAN-2050 and RSAN-2060.

Models RSAN-2003L, RSAN-2006L, RSAN-2010L, RSAN-2016L, RSAN-2020L, RSAN-2030L, RSAN-2040L, RSAN-2050L and RSAN-2060L.

Models RSEN-2003D, RSEN-2006D, RSEN-2010D, RSEN-2016D, RSEN-2020D and RSEN-2030D.

Models RSEN-2003LD, RSEN-2006LD, RSEN-2010LD, RSEN-2016LD, RSEN-2020LD and RSEN-2030LD.

Models RSAN-2003D, RSAN-2006D, RSAN-2010D, RSAN-2016D, RSAN-2020D and RSAN-2030D.

Models RSAN-2003LD, RSAN-2006LD, RSAN-2010LD, RSAN-2016LD, RSAN-2020LD and RSAN-2030LD.

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ELECTRICAL RATINGS:

Catalog. No.	Volts (V ac)	Current (A)	Frequency. (Hz)	Phase	Maximum Ambient (°C)
RSEN-2003 RSEN-2003L RSEN-2003D RSEN-2003LD	250	3	50/60	1	55
RSEN-2006 RSEN-2006L RSEN-2006D RSEN-2006LD	250	6	50/60	1	55
RSEN-2010 RSEN-2010L RSEN-2010D RSEN-2010LD	250	10	50/60	1	55
RSEN-2016 RSEN-2016L RSEN-2016D RSEN-2016LD	250	16	50/60	1	55
RSEN-2020 RSEN-2020L RSEN-2020D RSEN-2020LD	250	20	50/60	1	55
RSEN-2030 RSEN-2030L RSEN-2030D RSEN-2030LD	250	30	50/60	1	55
RSEN-2040 RSEN-2040L	250	40	50/60	1	55
RSEN-2050 RSEN-2050L	250	50	50/60	1	55
RSEN-2060 RSEN-2060L	250	60	50/60	1	55

ELECTRICAL RATINGS(CONT.):

Catalog. No.	Volts (V ac)	Current (A)	Frequency. (Hz)	Phase	Maximum Ambient (°C)
RSAN-2003 RSAN-2003L RSAN-2003D RSAN-2003LD	250	3	50/60	1	55
RSAN-2006 RSAN-2006L RSAN-2006D RSAN-2006LD	250	6	50/60	1	55
RSAN-2010 RSAN-2010L RSAN-2010D RSAN-2010LD	250	10	50/60	1	55
RSAN-2016 RSAN-2016L RSAN-2016D RSAN-2016LD	250	16	50/60	1	55
RSAN-2020 RSAN-2020L RSAN-2020D RSAN-2020LD	250	20	50/60	1	55
RSAN-2030 RSAN-2030L RSAN-2030D RSAN-2030LD	250	30	50/60	1	55
RSAN-2040 RSAN-2040L	250	40	50/60	1	55
RSAN-2050 RSAN-2050L	250	50	50/60	1	55
RSAN-2060 RSAN-2060L	250	60	50/60	1	55

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NOMENCLATURE:

Example: RSEN-2003LD

RSEN	-	2	003	L	D
I		II	III	IV	V

I - <Model Name>
RSEN
RSAN

II - <Rated Voltage>
2: 250 V

III - <Rated Current>
003: 3 A
006: 6 A
010: 10 A
016: 16 A
020: 20 A
030: 30 A
040: 40 A
050: 50 A
060: 60 A

IV - <Filter Construction>
None: with Y capacitors
L: without Y capacitors

V - <Filter Chassis>
None: Standard type
D: Din rail type

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. The following are among the features which should be judged during the investigation of the equipment in which this filter is used:

* Models have been judged on the basis of the spacing requirements in the Standard for Electromagnetic Interference Filters which would cover the component itself if submitted for unrestricted Listing.

* USR - Indicates investigation to the requirements of the UL Standard.

Conditions of Acceptability -

1. Leakage current shall be measured in the end-product to determine compliance with the applicable end-product requirements.

2. The end product shall not rely on the filter for grounding.

3. The filter shall be provided with an overall enclosure suitable for the applicable end-product requirements.

4. The electrical ratings specified shall not be exceeded.

5. These filters are not intended for use in radio, television, video, telephone, or telephone power supply type appliances.

6. The terminals have not been evaluated as field wiring terminals and shall be used for factory wiring only.

7. Suitability of mounting is to be determined in the end use product.

8. Suitability of grounding is to be determined in the end use product.

9. Polymeric covers have not been evaluated for mechanical strength of insulation.

10. Abnormal Operating Test (Limited Short Circuit) at alternate current has been conducted as follows, tested using a 60 A fuse of type RK1:

Model	Test current [A]
RSEN-2060	5000

Conditions of Acceptability (Cont.) -

11. The following testing referenced is not a part of the EMI Filter Recognition, but has been additionally conducted on the Models as indicated below:

UL 508 18th Edition Clause 53 (Standard Fault Short Circuit Testing) and 54 (High Fault Short Circuit Testing) have been conducted on the following filter models and service voltages with the following branch circuit protection. These tests were deemed representative of the filter as constructed.

Test Model	Available Models	Available Short Circuit Current Rating	Voltage Rating	Test Branch Circuit Protection
RSEN-2030	RSEN-2003/2006/2010/2016/2020/2030 series, RSAN-2003/2006/2010/2016/2020/2030 series	14 kA	240 Vac	Inverse time circuit breaker, rated 100 A
RSEN-2060	RSEN-2040/2050/2060 series, RSAN-2040/2050/2060 series	35 kA	240 Vac	Inverse time circuit breaker