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REPORT

ON

COMPONENT - ELECTROMAGNETIC INTERFERENCE FILTERS

Tdk Corp. Inductive Devices Div.
Yuri-Gun, Japan

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DESCRIPTION

PRODUCT COVERED:

USR Component - Electromagnetic Interference Appliance Filters,

***Models** RSHN-2003, RSHN-2006, RSHN-2010, RSHN-2016, RSHN-2020 **and** RSHN-2030.

Models RSHN-2003L, RSHN-2006L, RSHN-2010L, RSHN-2016L, RSHN-2020L **and** RSHN-2030L.

Models RSHN-2040, RSHN-2050 **and** RSHN-2060.

Models RSMN-2003, RSMN-2006, RSMN-2010, RSMN-2016, RSMN-2020 **and** RSMN-2030.

Models RSMN-2003L, RSMN-2006L, RSMN-2010L, RSMN-2016L, RSMN-2020L **and** RSMN-2030L.

Models RSMN-2040, RSMN-2050 **and** RSMN-2060.

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

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

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

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

ELECTRICAL RATINGS:

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

ELECTRICAL RATINGS:

Catalog. No.	Volts (V ac)	Current (A)	Frequency. (Hz)	Phase	Maximum Ambient (°C)
RSHN-2030 RSHN-2030L RSMN-2030 RSMN-2030L RSHN-2030D RSHN-2030LD RSMN-2030D RSMN-2030LD	250	30	50/60	1	55
RSHN-2040 RSMN-2040	250	40	50/60	1	55
RSHN-2050 RSMN-2050	250	50	50/60	1	55
RSHN-2060 RSMN-2060	250	60	50/60	1	55

NOMENCLATURE:**Example: RSHN-2003LD**

RSHN	-	2	003	L	D
I		II	III	IV	V

I - <Model Name>**RSHN****RSMN****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 - <Y2 Capacitor Capacitance>****None: 4700 pF****L: 470 pF****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 (UL 1283 Fifth Edition) which would cover the component itself if submitted for unrestricted Listing.

*USR - Indicates investigation to the Standard for Electromagnetic Interference Filters, UL 1283, Fifth Edition, latest revision dated July, 31, 2007.

Conditions of Acceptability -

- *1. The maximum leakage current measured on the model are tabulated below. The suitability shall be determined in the end use application.

Model	At normal operation (mA)	At reverse operation (mA)
RSHN-2030	1.0	1.0
RSHN-2060	0.42	0.42

2. The end product shall not rely on the filter for grounding.
3. The filter should be provided with an overall enclosure suitable for the applicable end-product requirements.
4. The electrical ratings specified should 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 30 A fuse of type RK1:**

Model	Test current [A]
RSHN-2030	3500