

File E62388
Project 07SC03457

August 07, 2007

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,

Model RTHN-5006, RTHN-5010, RTHN-5016, RTHN-5020, RTHN-5030, RTHN-5040, RTHN-5050, RTHN-5060, RTHN-5080, RTHN-5100, RTHN-5150.

Model RTHC-5006, RTHC-5010, RTHC-5016, RTHC-5020, RTHC-5030, RTHC-5040, RTHC-5050, RTHC-5060, RTHC-5080, RTHC-5100, RTHC-5150.

Model RTHB-5006, RTHB-5010, RTHB-5016, RTHB-5020, RTHB-5030, RTHB-5040, RTHB-5050, RTHB-5060, RTHB-5080, RTHB-5100, RTHB-5150.

Model RTMN-5006, RTMN-5010, RTMN-5016, RTMN-5020, RTMN-5030, RTMN-5040, RTMN-5050, RTMN-5060.

ELECTRICAL RATINGS:

Catalog. No.	Volts (V ac)	Current (A)	Frequency. (Hz)	Phase	Maximum Ambient (°C)
RTHN-5006 RTHC-5006 RTHB-5006 RTMN-5006	500	6	50/60	3	50
RTHN-5010 RTHC-5010 RTHB-5010 RTMN-5010	500	10	50/60	3	50
RTHN-5016 RTHC-5016 RTHB-5016 RTMN-5016	500	16	50/60	3	50
RTHN-5020 RTHC-5020 RTHB-5020 RTMN-5020	500	20	50/60	3	50
RTHN-5030 RTHC-5030 RTHB-5030 RTMN-5030	500	30	50/60	3	50

ELECTRICAL RATINGS (CONT.):

Catalog. No.	Volts (V ac)	Current (A)	Frequency. (Hz)	Phase	Maximum Ambient (°C)
RTHN-5040 RTHC-5040 RTHB-5040 RTMN-5040	500	40	50/60	3	50
RTHN-5050 RTHC-5050 RTHB-5050 RTMN-5050	500	50	50/60	3	50
RTHN-5060 RTHC-5060 RTHB-5060 RTMN-5060	500	60	50/60	3	50
RTHN-5080 RTHC-5080 RTHB-5080	500	80	50/60	3	50
RTHN-5100 RTHC-5100 RTHB-5100	500	100	50/60	3	50
RTHN-5150 RTHC-5150 RTHB-5150	500	150	50/60	3	50

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 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. 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
RTHN-5010	RTHN-5006/5010 series, RTMN-5006/5010 series	14 kA	480 Vac	Inverse time circuit breaker
RTHN-5030	RTHN-5020/5030 series, RTMN-5020/5030 series	14 kA	480 Vac	Inverse time circuit breaker, rated 100 A
RTHN-5060	RTHN-5040/5050/5060 series, RTMN-5040/5050/5060 series	35 kA	480 Vac	Inverse time circuit breaker
RTHN-5100	RTHN-5080/5100 series	35 kA	480 Vac	Inverse time circuit breaker
RTHN-5150	RTHN-5150 series	10 kA	480 Vac	Inverse time circuit breaker, rated 400 A