

## DESCRIPTION

## PRODUCT COVERED:

USR, CNR - Component - Appliance Filters, Models FMAC-3F3C-J520, FMAC-3FNZ-L050, FMAC-3F3C-M020, FMAC-3FNV-Q050.

## GENERAL:

These devices are EMI filters intended for incorporation in appliances or similar equipment. They are housed in a metal housing and are provided with wires for factory wiring.

## ELECTRICAL RATINGS:

Model No.	Voltage (AC)	Frequency (Hz)	Phases (AC)	Current	Maximum Ambient Temperature (°C)
FMAC-3F3C-J520	560/323	50/60	3	150	0 - 60
FMAC-3FNZ-L050	560/323	50/60	3	300	0 - 60
FMAC-3F3C-M020	280/162	50/60	3	400	0 - 60
FMAC-3FNV-Q050	280/162	50/60	3	800	0 - 60

## ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

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:

General - The components covered by this Report are Component Appliance Filters intended to be used in the end-use product where the acceptability of the combination with the end-use product has been determined by UL LLC. The following items should be considered in the end use product engineering evaluation.

1. The filter shall be installed within an overall enclosure suitable for the end product application. Mounting means should be considered in the end-use application.
2. The filter shall be installed in compliance with the mounting, terminal, spacing and segregation of the end application.
3. The lead wires and terminals have not been evaluated for field wiring. The acceptability of the grounding means in conjunction with the filter shall be evaluated in the end-use application.
4. Appliance filters inherently have high leakage currents. These devices have leakage current measurements exceeding 0.5 mA. Leakage current measurements in the end use application should be considered for compliance with the end use application requirements.
5. Capacitor Discharge voltage measurements have been provided for reference only. The need to determine capacitor discharge voltages in the end application shall be considered.
6. The components were submitted and tested with a maximum manufacturer's recommended ambient of 60°C as indicated by the Maximum Ambient Temperature Rating of the devices documented in the Electrical Ratings Table. The need for additional testing if these devices are used above this rating shall be considered in the end-use application
7. The suitability of the grounding means in conjunction with the filter shall be evaluated in the end-use application.
8. **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 below.**

\*

Model	Represented Models	Test current (A)
FMAC-3F3C-J520, FMAC-3FNZ-L050, FMAC-3F3C-M020, FMAC-3FNV-Q050	<b>FMAC-3F3C-J520, FMAC-3FNZ-L050, FMAC-3F3C-M020, FMAC-3FNV-Q050</b>	5000

This test was performed using a short circuit current of 5000 Amps for 60 ms without a fuse. Suitability and need for additional testing shall be considered in the end-use application.

9. The filters have been evaluated for use in 280/162 and 560/323 V ac WYE systems where the phase-to-neutral and phase-to-ground voltage does not exceed 162 and 323 V, and phase-to-phase voltage does not exceed 280 and 560 V.