

## DESCRIPTION

## PRODUCT COVERED:

USR, CNR - Component - Appliance Filters, Cat. Nos. 5110 and 5145. Refer to nomenclature breakdown for type designation.

## GENERAL:

These devices are Electromagnetic Interference (EMI) Filters intended for incorporation in appliances or similar equipment. They are provided with metal housing and terminals for factory wiring. The current detailed below is the maximum rated at a maximum ambient temperature rating.

## ELECTRICAL RATING:

Model No.	Voltage (V ac)	Current (A)	Number of Phases	Frequency (Hz)	Maximum Ambient Temperature (°C)
5110 Series	125/250	1,2,3,4,6, 8,10,15	1	50/60	25
5145 Series	125/250	1,2,3,4,6, 8,10,15	1	50/60	25

## ENGINEERING CONSIDERATIONS:

USR indicates investigation to the requirements the Standard for Electromagnetic Interference Filters, UL 1283, Sixth Edition.

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

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## CONDITIONS OF ACCEPTABILITY:

General - The components covered by this Report are Component Appliance Electromagnetic Interference 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 filters should be provided with an overall enclosure suitable for the applicable end-product requirements.
2. The filter shall be installed in compliance with the mounting, terminal, spacing and segregation requirements of the end use application.
3. The terminals have not been evaluated for field wiring. The acceptability of the grounding terminal should be determined in the end use application.
4. Appliance filters inherently have high leakage currents. Leakage current measurements in the end use application should be considered for compliance with the end use application requirements.
5. The suitability of the grounding means in conjunction with the filter shall be evaluated in the end-use application.
6. The components were submitted and tested with a maximum manufacturer's recommended ambient 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 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	Fuse rating, A
5110	1 amp models	200	15
5110	2, 3, 4 amp models	1000	15
5110	8, 10 amp models	2000	20

NOMENCLATURE- **Series 5110****Type Code and Description for 5110 Series Filters****Example:**

P/N	5110	-	1	1	1	1	-	1	1	1	-	00
No.	I		II	III	IV	V		VI	VII	VIII		IX

No.	P/N Character Position	Mark	Description
I	1-4	5110	Model Number Type Designation: 5110
II	5	-1	Mounting: 1 = Screw Mounting 2 = Snap-in 0.8 - 3 mm
III	6	1	X-Capacitor: 1 = X2, 100 nF, 2 = X2, 47 nF
IV	7	1	Y-Capacitor: 0 = without Y-Capacitor 1 = Y2, 2.2 nF 2 = Y2, 0.47 nF
V	8	1	Bleeder Resistor: 0 = Without Resistor 1 = 1.0 MΩ
VI	9	-1	Terminals L & N: 1 = Quick Connect 6.3 x 0.8 mm
VII	10	1	Terminals PE: 1 = Quick Connect 6.3 x 0.8 mm
VIII	11	7	Current Rating, in Ampere: 1 = 1 A, 2 = 2 A, 3 = 3A, 4 = 4 A, 5 = 6 A, 6 = 8 A, 7 = 10 A, 8 = 15 A
IX	12-13	-00	Customer Specific (Optional)

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## NOMENCLATURE - Series 5145

## Type Code and Description for 5145 Series Filters

## Example:

P/N	5145	-	00000000000-000	-	8	1	1	-	1	1	-	00
No.	I		II		III	IV	V		VI	VII		VII

No.	P/N Character Position	Mark	Description
I	1-4	5545	Model Number Type Designation: 5145
II	5-17	-0000000000-000	Circuit Breaker Designation: "0000000000-000" = Without CBE When CBE is provided, See Configuration Code Circuit Breaker Type TA45
III	18	-8	Current Rating, in Ampere: 1 = 1 A, 2 = 2 A, 3 = 3A, 4 = 4 A, 5 = 6 A, 6 = 8 A, 7 = 10 A, 8 = 15 A
IV	19	1	Type of Mains filter, Capacitor, and Bleeder Resistor: 1 = standard / X2, Y2 / without resistor 2 = standard / X2, Y2 / with resistor 3 = medical M5 / X2 / with resistor 4 = standard / X2 / without resistor 5 = medical M80 / X2, Y2 / with resistor 6 = medical / without caps / without resistor
V	20	1	Metal shield: 0 = With metal shield (PC I Only) 1 = Without Metal Shield
VI	7	-1	Terminals L & N: 1 = Quick Connect 6.3 x 0.8 mm <b>3 = Connection to TA45</b>
VII	8	1	Terminals PE: <b>0 = without (PCII)</b> 1 = Quick Connect 6.3 x 0.8 mm
VIII	9	-00	Customer Specific (Optional) <b>00 = standard</b> <b>21 = V-Lock</b>