

DESCRIPTION

PRODUCT COVERED:

USR, CNR - Passive Filter Units for Electromagnetic Interference Suppression, Model Series FPBB, followed by additional suffixes.

Refer to electrical ratings and nomenclature breakdown for model designations.

GENERAL:

The devices covered by this Procedure are passive filters used to attenuate unwanted radio-frequency signals (such as noise or interference) generated from electromagnetic sources. They are intended to be factory-installed as a component part of end-use appliances or equipment connected to (supplied by) the branch circuits of a building wiring system.

ELECTRICAL RATINGS:

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
Standard Version									
3-103-673	FPBB-U3RI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/100/21	1
3-103-674	FPBB-U3RI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/100/21	1
3-103-675	FPBB-U3RI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/100/21	1
3-103-676	FPBB-U3RI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/100/21	1
3-103-677	FPBB-U3RI-1290.xx	USR/CNR	125/250	1	50-60 / DC	12	40	40/100/21	1
3-103-678	FPBB-U3RI-1690.xx	USR/CNR	125/250	1	50-60 / DC	16	40	40/100/21	1
3-103-679	FPBB-V3RI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	2
3-103-680	FPBB-V3RI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	2
3-103-681	FPBB-V3RI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	2
3-103-692	FPBB-V3RI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	2

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phase s	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
Standard Version									
3-103-693	FPBB-W3RI-0390.xx	USR/CNR	125/240	1	50-60	3	40	05/085/21	3
			48		DC				
3-103-694	FPBB-W3RI-0690.xx	USR/CNR	125/240	1	50-60	6	40	05/085/21	3
			48		DC				
3-103-695	FPBB-W3RI-1090.xx	USR/CNR	125/240	1	50-60	10	40	05/085/21	3
			48		DC				
3-103-696	FPBB-W3RI-1290.xx	USR/CNR	125/240	1	50-60	12	40	05/085/21	3
			48		DC				
3-103-697	FPBB-W3RI-1590.xx	USR/CNR	125/240	1	50-60	15	40	05/085/21	3
			32		DC				
3-103-699	FPBB-U3RI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	4
3-103-700	FPBB-U3RI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	4
3-103-701	FPBB-U3RI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	4
3-103-702	FPBB-U3RI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	4
3-103-703	FPBB-U3RI-1290.VD	USR/CNR	125/250	1	50-60 / DC	12	40	40/085/21	4
3-103-704	FPBB-U3RI-1690.VD	USR/CNR	125/250	1	50-60 / DC	16	40	40/085/21	4
3-103-705	FPBB-V3RI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	5
3-103-706	FPBB-V3RI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	5
3-103-707	FPBB-V3RI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	5
3-103-708	FPBB-V3RI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	5
3-103-709	FPBB-W3RI-0390.VD	USR/CNR	125/240	1	50-60	3	40	05/085/21	6
			48		DC				

3-103-710	FPBB-W3RI-0690.VD	USR/CNR	125/240	1	50-60	6	40	05/085/21	6
			48		DC				

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
Standard Version									
3-103-711	FPBB-W3RI-1090.VD	USR/CNR	125/240	1	50-60	10	40	05/085/21	6
			48		DC				
3-103-712	FPBB-W3RI-1290.VD	USR/CNR	125/240	1	50-60	12	40	05/085/21	6
			48		DC				
3-103-713	FPBB-W3RI-1590.VD	USR/CNR	125/240	1	50-60	15	40	05/085/21	6
			32		DC				
3-103-714	FPBB-U3TI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/100/21	1
3-103-715	FPBB-U3TI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/100/21	1
3-103-716	FPBB-U3TI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/100/21	1
3-103-717	FPBB-U3TI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/100/21	1
3-103-718	FPBB-U3TI-1290.xx	USR/CNR	125/250	1	50-60 / DC	12	40	40/100/21	1
3-103-719	FPBB-U3TI-1690.xx	USR/CNR	125/250	1	50-60 / DC	16	40	40/100/21	1
3-103-691	FPBB-V3TI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	2
3-103-722	FPBB-V3TI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	2
3-103-723	FPBB-V3TI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	2
3-103-724	FPBB-V3TI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	2
3-103-725	FPBB-W3TI-0390.xx	USR/CNR	125/240	1	50-60	3	40	05/085/21	3
			48		DC				

3-103-726	FPBB-W3TI-0690.xx	USR/CNR	125/240	1	50-60	6	40	05/085/21	3
			48		DC				
3-103-727	FPBB-W3TI-1090.xx	USR/CNR	125/240	1	50-60	10	40	05/085/21	3
			48		DC				

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature°C	Climatic Category	Schematic Diagram
Standard Version									
3-103-728	FPBB-W3TI-1290.xx	USR/CNR	125/240	1	50-60	12	40	05/085/21	3
			48		DC				
3-103-729	FPBB-W3TI-1590.xx	USR/CNR	125/240	1	50-60	15	40	05/085/21	3
			32		DC				
3-103-730	FPBB-U3TI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	4
3-103-731	FPBB-U3TI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	4
3-103-732	FPBB-U3TI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	4
3-103-733	FPBB-U3TI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	4
3-103-734	FPBB-U3TI-1290.VD	USR/CNR	125/250	1	50-60 / DC	12	40	40/085/21	4
3-103-735	FPBB-U3TI-1690.VD	USR/CNR	125/250	1	50-60 / DC	16	40	40/085/21	4
3-103-736	FPBB-V3TI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	5
3-103-737	FPBB-V3TI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	5
3-103-738	FPBB-V3TI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	5
3-103-739	FPBB-V3TI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	5
3-103-720	FPBB-W3TI-0390.VD	USR/CNR	125/240	1	50-60	3	40	05/085/21	6
			48		DC				
3-103-721	FPBB-W3TI-0690.VD	USR/CNR	125/240	1	50-60	6	40	05/085/21	6
			48		DC				

3-103-752	FPBB-W3TI-1090.VD	USR/CNR	125/240	1	50-60	10	40	05/085/21	6
			48		DC				
3-103-753	FPBB-W3TI-1290.VD	USR/CNR	125/240	1	50-60	12	40	05/085/21	6
			48		DC				
3-103-754	FPBB-W3TI-1590.VD	USR/CNR	125/240	1	50-60	15	40	05/085/21	6
			32		DC				

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
M80 Version									
3-103-880	FPBB-U7RI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/100/21	1
3-103-881	FPBB-U7RI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/100/21	1
3-103-892	FPBB-U7RI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/100/21	1
3-103-893	FPBB-U7RI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/100/21	1
3-103-894	FPBB-U7RI-1290.xx	USR/CNR	125/250	1	50-60 / DC	12	40	40/100/21	1
3-103-895	FPBB-U7RI-1690.xx	USR/CNR	125/250	1	50-60 / DC	16	40	40/100/21	1
3-103-896	FPBB-V7RI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	2
3-103-897	FPBB-V7RI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	2
3-103-898	FPBB-V7RI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	2
3-103-899	FPBB-V7RI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	2
3-103-900	FPBB-W7RI-0390.xx	USR/CNR	125/240	1	50-60	3	40	05/085/21	3
			48		DC				
3-103-901	FPBB-W7RI-0690.xx	USR/CNR	125/240	1	50-60	6	40	05/085/21	3
			48		DC				
3-103-902	FPBB-W7RI-1090.xx	USR/CNR	125/240	1	50-60	10	40	05/085/21	3
			48		DC				

3-103-903	FPBB-W7RI-1290.xx	USR/CNR	125/240	1	50-60	12	40	05/085/21	3
			48		DC				
3-103-904	FPBB-W7RI-1590.xx	USR/CNR	125/240	1	50-60	15	40	05/085/21	3
			32		DC				
3-103-905	FPBB-U7RI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	4
3-103-906	FPBB-U7RI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	4
3-103-907	FPBB-U7RI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	4

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
M80 Version									
3-103-908	FPBB-U7RI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	4
3-103-909	FPBB-U7RI-1290.VD	USR/CNR	125/250	1	50-60 / DC	12	40	40/085/21	4
3-103-910	FPBB-U7RI-1690.VD	USR/CNR	125/250	1	50-60 / DC	16	40	40/085/21	4
3-103-911	FPBB-V7RI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	5
3-103-912	FPBB-V7RI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	5
3-103-913	FPBB-V7RI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	5
3-103-914	FPBB-V7RI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	5
3-103-915	FPBB-W7RI-0390.VD	USR/CNR	125/240	1	50-60	3	40	05/085/21	6
			48		DC				
3-103-916	FPBB-W7RI-0690.VD	USR/CNR	125/240	1	50-60	6	40	05/085/21	6
			48		DC				
3-103-917	FPBB-W7RI-1090.VD	USR/CNR	125/240	1	50-60	10	40	05/085/21	6
			48		DC				
3-103-918	FPBB-W7RI-1290.VD	USR/CNR	125/240	1	50-60	12	40	05/085/21	6
			48		DC				

3-103-919	FPBB-W7RI-1590.VD	USR/CNR	125/240	1	50-60	15	40	05/085/21	6
			32		DC				
3-103-920	FPBB-U7TI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/100/21	1
3-103-921	FPBB-U7TI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/100/21	1
3-103-922	FPBB-U7TI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/100/21	1
3-103-923	FPBB-U7TI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/100/21	1
3-103-924	FPBB-U7TI-1290.xx	USR/CNR	125/250	1	50-60 / DC	12	40	40/100/21	1
3-103-925	FPBB-U7TI-1690.xx	USR/CNR	125/250	1	50-60 / DC	16	40	40/100/21	1
3-103-926	FPBB-V7TI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	2
3-103-927	FPBB-V7TI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	2

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
M80 Version									
3-103-928	FPBB-V7TI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	2
3-103-929	FPBB-V7TI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	2
3-103-930	FPBB-W7TI-0390.xx	USR/CNR	125/240	1	50-60	3	40	05/085/21	3
			48		DC				
3-103-931	FPBB-W7TI-0690.xx	USR/CNR	125/240	1	50-60	6	40	05/085/21	3
			48		DC				
3-103-932	FPBB-W7TI-1090.xx	USR/CNR	125/240	1	50-60	10	40	05/085/21	3
			48		DC				
3-103-933	FPBB-W7TI-1290.xx	USR/CNR	125/240	1	50-60	12	40	05/085/21	3
			48		DC				
3-103-934	FPBB-W7TI-1590.xx	USR/CNR	125/240	1	50-60	15	40	05/085/21	3
			32		DC				

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
M80 Version									
3-103-935	FPBB-U7TI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	4
3-103-936	FPBB-U7TI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	4
3-103-937	FPBB-U7TI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	4
3-103-938	FPBB-U7TI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	4
3-103-939	FPBB-U7TI-1290.VD	USR/CNR	125/250	1	50-60 / DC	12	40	40/085/21	4
3-103-940	FPBB-U7TI-1690.VD	USR/CNR	125/250	1	50-60 / DC	16	40	40/085/21	4
3-103-941	FPBB-V7TI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	5
3-103-942	FPBB-V7TI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	5
3-103-943	FPBB-V7TI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	5
3-103-944	FPBB-V7TI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	5
3-103-945	FPBB-W7TI-0390.VD	USR/CNR	125/240	1	50-60	3	40	05/085/21	6
			48		DC				
3-103-946	FPBB-W7TI-0690.VD	USR/CNR	125/240	1	50-60	6	40	05/085/21	6
			48		DC				
3-103-947	FPBB-W7TI-1090.VD	USR/CNR	125/240	1	50-60	10	40	05/085/21	6
			48		DC				
3-103-948	FPBB-W7TI-1290.VD	USR/CNR	125/240	1	50-60	12	40	05/085/21	6
			48		DC				
3-103-949	FPBB-W7TI-1590.VD	USR/CNR	125/240	1	50-60	15	40	05/085/21	6
			32		DC				

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
M5 Version									
3-103-950	FPBB-U6RI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/100/21	7
3-103-951	FPBB-U6RI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/100/21	7
3-103-952	FPBB-U6RI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/100/21	7
3-103-953	FPBB-U6RI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/100/21	7
3-103-954	FPBB-U6RI-1290.xx	USR/CNR	125/250	1	50-60 / DC	12	40	40/100/21	7
3-103-955	FPBB-U6RI-1690.xx	USR/CNR	125/250	1	50-60 / DC	16	40	40/100/21	7
3-103-956	FPBB-V6RI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	8
3-103-957	FPBB-V6RI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	8
3-103-958	FPBB-V6RI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	8
3-103-959	FPBB-V6RI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	8
3-103-960	FPBB-W6RI-0390.xx	USR/CNR	125/240	1	50-60	3	40	05/085/21	9
			48		DC				
3-103-961	FPBB-W6RI-0690.xx	USR/CNR	125/240	1	50-60	6	40	05/085/21	9
			48		DC				
3-103-962	FPBB-W6RI-1090.xx	USR/CNR	125/240	1	50-60	10	40	05/085/21	9
			48		DC				
3-103-963	FPBB-W6RI-1290.xx	USR/CNR	125/240	1	50-60	12	40	05/085/21	9
			48		DC				
3-103-964	FPBB-W6RI-1590.xx	USR/CNR	125/240	1	50-60	15	40	05/085/21	9
			32		DC				
3-103-965	FPBB-U6RI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	10
3-103-966	FPBB-U6RI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	10
3-103-967	FPBB-U6RI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	10
3-103-968	FPBB-U6RI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	10

3-103-969	FPBB-U6RI-1290.VD	USR/CNR	125/250	1	50-60 / DC	12	40	40/085/21	10
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ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
M5 Version									
3-103-970	FPBB-U6RI-1690.VD	USR/CNR	125/250	1	50-60 / DC	16	40	40/085/21	10
3-103-971	FPBB-V6RI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	11
3-103-972	FPBB-V6RI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	11
3-103-973	FPBB-V6RI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	11
3-103-974	FPBB-V6RI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	11
3-103-975	FPBB-W6RI-0390.VD	USR/CNR	125/240	1	50-60	3	40	05/085/21	12
			48		DC				
3-103-976	FPBB-W6RI-0690.VD	USR/CNR	125/240	1	50-60	6	40	05/085/21	12
			48		DC				
3-103-977	FPBB-W6RI-1090.VD	USR/CNR	125/240	1	50-60	10	40	05/085/21	12
			48		DC				
3-103-978	FPBB-W6RI-1290.VD	USR/CNR	125/240	1	50-60	12	40	05/085/21	12
			48		DC				
3-103-979	FPBB-W6RI-1590.VD	USR/CNR	125/240	1	50-60	15	40	05/085/21	12
			32		DC				
3-103-980	FPBB-U6TI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/100/21	7
3-103-981	FPBB-U6TI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/100/21	7
3-103-982	FPBB-U6TI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/100/21	7
3-103-983	FPBB-U6TI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/100/21	7

3-103-984	FPBB-U6TI-1290.xx	USR/CNR	125/250	1	50-60 / DC	12	40	40/100/21	7
3-103-985	FPBB-U6TI-1690.xx	USR/CNR	125/250	1	50-60 / DC	16	40	40/100/21	7
3-103-986	FPBB-V6TI-0190.xx	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	8

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
M5 Version									
3-103-987	FPBB-V6TI-0390.xx	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	8
3-103-988	FPBB-V6TI-0690.xx	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	8
3-103-989	FPBB-V6TI-1090.xx	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	8
3-103-990	FPBB-W6TI-0390.xx	USR/CNR	125/240	1	50-60	3	40	05/085/21	9
			48		DC				
3-103-991	FPBB-W6TI-0690.xx	USR/CNR	125/240	1	50-60	6	40	05/085/21	9
			48		DC				
3-103-992	FPBB-W6TI-1090.xx	USR/CNR	125/240	1	50-60	10	40	05/085/21	9
			48		DC				
3-103-993	FPBB-W6TI-1290.xx	USR/CNR	125/240	1	50-60	12	40	05/085/21	9
			48		DC				
3-103-994	FPBB-W6TI-1590.xx	USR/CNR	125/240	1	50-60	15	40	05/085/21	9
			32		DC				
3-103-995	FPBB-U6TI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	10
3-103-996	FPBB-U6TI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	10
3-103-997	FPBB-U6TI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	10
3-103-998	FPBB-U6TI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	10

3-103-999	FPBB-U6TI-1290.VD	USR/CNR	125/250	1	50-60 / DC	12	40	40/085/21	10
3-104-000	FPBB-U6TI-1690.VD	USR/CNR	125/250	1	50-60 / DC	16	40	40/085/21	10
3-104-001	FPBB-V6TI-0190.VD	USR/CNR	125/250	1	50-60 / DC	1	40	40/085/21	11
3-104-002	FPBB-V6TI-0390.VD	USR/CNR	125/250	1	50-60 / DC	3	40	40/085/21	11
3-104-003	FPBB-V6TI-0690.VD	USR/CNR	125/250	1	50-60 / DC	6	40	40/085/21	11
3-104-004	FPBB-V6TI-1090.VD	USR/CNR	125/250	1	50-60 / DC	10	40	40/085/21	11

ELECTRICAL RATINGS (Cont.):

Part No.	Model	Coverage	Rated Voltage Vac/dc	Phases	Rated Frequency Hz	Rated Current A	Rated Maximum Ambient Temperature °C	Climatic Category	Schematic Diagram
M5 Version									
3-104-005	FPBB-W6TI-0390.VD	USR/CNR	125/240	1	50-60	3	40	05/085/21	12
			48		DC				
3-104-006	FPBB-W6TI-0690.VD	USR/CNR	125/240	1	50-60	6	40	05/085/21	12
			48		DC				
3-104-007	FPBB-W6TI-1090.VD	USR/CNR	125/240	1	50-60	10	40	05/085/21	12
			48		DC				
3-104-008	FPBB-W6TI-1290.VD	USR/CNR	125/240	1	50-60	12	40	05/085/21	12
			48		DC				
3-104-009	FPBB-W6TI-1590.VD	USR/CNR	125/240	1	50-60	15	40	05/085/21	12
			32		DC				

NOMENCLATURE:

Type Code and Description for FPBB Series Filters

P/N	FPBB	-h	y	kk	-zz	w	j	.xx
No.	1	2	3	4	5	6	7	8

Example:

No.	P/N Character Position	Mark	Description
1	1-4	FPBB	Basic Model Number Series Designation.
2	5	h	Type of design (U, V, W, or other alphanumeric digit) U = Standard version V = with internal fuse W = with internal circuit breaker
3	6	y	Type of protection (alphanumeric digit) 3 = ≤ 0.75 mA leakage current - Standard version 6 = ≤ 5 μ A leakage current - M5 version (no capacitance L/N to Ground) 7 = ≤ 0.75 mA leakage current - M80 version (reduced capacitance L/N to Ground = (Cy) 470 pF)
4	7-8	kk	Type of Case - Housing Design (alphanumeric digit) RI TI
5	9-10	zz	Current Rating, as applicable. 01 = 1 A, 03 = 3 A, 06 = 6 A 10 = 10 A, 12 = 12 A, 15 = 15 A 16 = 16 A
6	11	w	Type of connection 1 = Screw terminal 9 = Cage clamp terminal
7	12	j	Rated voltage 0 = ≤ 480 V
8	13-14	xx	Customer version designation (one or two alphanumeric digits) or other combinations. Example: VD filter with varistor

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

USR indicates the filters have been evaluated to the Standard for Passive Filter Units for Electromagnetic Interference Suppression - Part 3, UL 60939-3, First 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:

Use - 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.

Conditions of Acceptability - The following items should be considered to determine acceptability when evaluating the end-use product.

1. The filters shall be provided with an overall enclosure suitable for the applicable end product requirements. Mounting means should be considered in the end-use application.
2. The filter shall be installed in compliance with the terminal spacing and segregation requirements of the end use application.
3. The terminals have not been evaluated for field wiring.
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 components were submitted and evaluated at a maximum manufacturer's recommended ambient as indicated 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.
6. The suitability of the grounding means in conjunction with the filter shall be evaluated in the end-use application.
7. These devices have not been evaluated for use within equipment where Surge Protection is desired. The suitability of these devices to comply with these requirements in the end-use application shall be determined.

8. The Abnormal Operation Test has been performed on these filters and they are capable of withstanding limited short-circuit conditions up to those stated in the table below, with the correlating fuses that were used. Evaluation for Abnormal Operation test currents higher than those stated in the table, or fused higher or with fuses different than what is stated, shall be determined in the end-use product in which these filters are installed. The models tested are considered representative of the complete FPBB Series.

Filter Model	Test Current - Short Circuit Current (A)	Fuse Cat. No.	Rated	Mfr.	File No.
FPBB-U3RI-0190.VD (3-103-699)	200	TRS3R	3 A, 600 Vac, Class RK5, time delay, Interrupting rating = 200kA	Mersen USA Newburyport -MA LLC	E2137 (JDDZ)
FPBB-U3RI-1090.VD (3-103-702)	2000	AJT15	15 A, 600 Vac, Class J, time delay, Interrupting rating=200 KA.		
FPBB-U3RI-1690.VD (3-103-704)	2000	TRS20R	20 A, 600 Vac, Class RK5, time delay, Interupting rating = 200kA		

9. Models FPBB-U6RI-1690.VD (3-103-970) and FPBB-U6RI-0190.VD (3-103-965) employing the Littelfuse MOV TMOV14RP320E have been subjected to the Short Circuit Current Rating Test (Clause 44.2) and the Intermediate Current Tests (Clause 44.3) per UL 1449. These filters were capable of withstanding the available short circuit current values of 5000 A, 1000 A, 500 A, and 100 A, when protected by the supplemental fuses indicated in the table below. Suitability of these filters to comply with these tests when protected by fuses other than stated below, shall be determined in the end-use product in which these filters are installed. The models tested are considered representative of the complete FPBB Series.

Filter Model	Fuse Cat. No.	Rated	Manufacturer	File No.
FPBB-U6RI-0190.VD (3-103-965)	KLK 20 (10.320 x 38.1)	20 A, 600 Vac, Interrupting rating = 10kA	Littelfuse Inc.	E10480 (JDYX)
FPBB-U6RI-1690.VD (3-103-970)	SPT 5 x 20	1.25 A, 125/250 Vac, Interrupting rating = 10kA/1.5kA	Schurter AG	E41599 (JDYX2)

10. Models FPBB-U6RI-1690.VD (3-103-970) and FPBB-U6RI-0190.VD (3-103-965) employing the Littelfuse MOV TMOV14RP320E have been subjected to the Limited Current Abnormal Overvoltage Test as required by UL 1449. The models tested are considered representative of the complete FPBB Series.