

EA_EAX Series

General Purpose Power-Line Filters (5-600A)



Typical application

- Suppressing of industrial radio interference along power lines

Features and benefits

- General purpose, compact design
- Effective for both balanced and unbalanced three-phase loads

Conformity

- CE EN 60939
- CSA C22,2 | available on request for most types
- UL 1283 | available on request for most types
- Climatic category 25/085/21 (IEC 60068-1)

Technical specifications

	Symbol	Value	Unit	Remarks
Rated voltage	V_R	440/250	VAC	
Rated current	I_R	5 ... 600	A	
Ground capacitance		6.8-690	nF	
Operating frequency	f_{op}	50/60	Hz	
Insertion loss		up to 80/90	dB	common/dfferential mode
Leakage current	I_l	---	mA	
Operating temperature	T_{amb}	-25 ... +85	°C	
Storage temperature	T_s	-25 ... +85	°C	
Test voltage - line to line	V_{test}	1500	VDC	
Test voltage - line to ground	V_{test}	2250	VDC	

Electrical properties

Model	Connection		Rated Current [A]	Ground Capacitance [nF]	Leakage Current [mA]	Discharge Resistance [MΩ]	Circuit Diagram	Packaging Type
	Line	Load						
DL-5EA	F	F	5	6.8	-		1	1
DL-5EAX1	L	L	5	6.8	-		1	2
DL-10EA	F	F	10	6.8	-		1	1
DL-10EAX1	L	L	10	6.8	-		1	2
DL-15EA3	S	S	15	6.8	-		2	5
DL-20EA3	S	S	20	6.8	-		2	5
DL-25EA3	S	S	25	6.8	-		2	5
DL-35EA3	S	S	35	6.8	-		2	5
DL-40EA3	S	S	40	10	1		2	6
DL-50EA3	S	S	50	10	1		2	6
DL-80EA1	S	S	80	10	0.68		2	3
DL-100EA1	S	S	100	13.6	0.44		2	4
DL-150EA1	S	S	150	200	0.44		2	3
DL-200EA5	S	S	200	200	0.68		3	3
DL-300EA5/60	B	B	300	690	0.68		4	7
DL-600EA5/60	B	B	600	690	0.68		4	8

Legend: F = FASTON 6.3 S = screw terminal B = bus bar

Circuit schematic

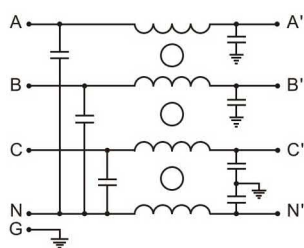


fig.1

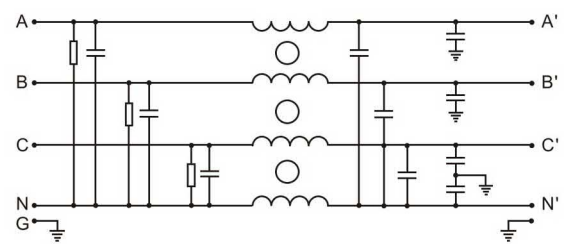


fig.2

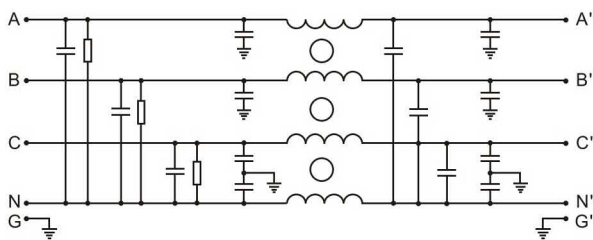


fig.3

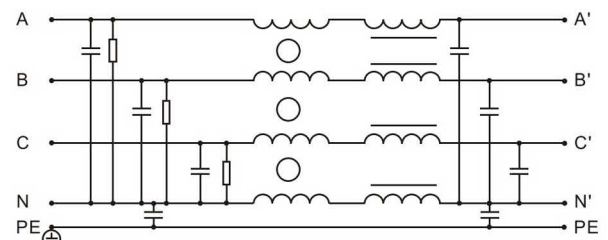
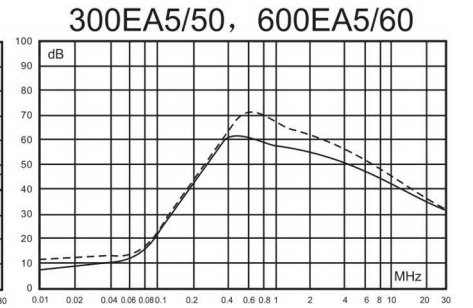
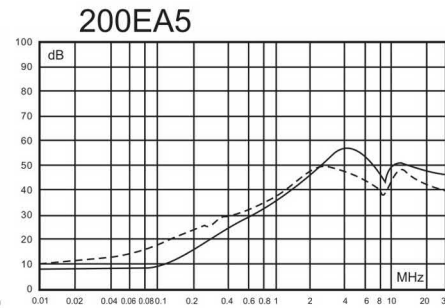
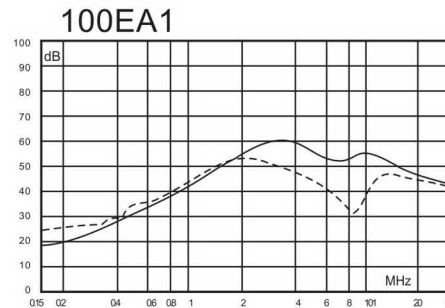
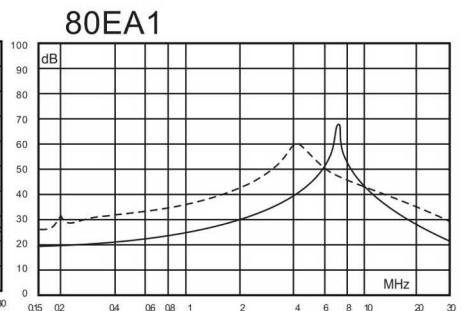
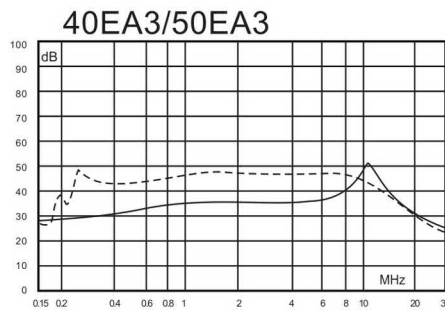
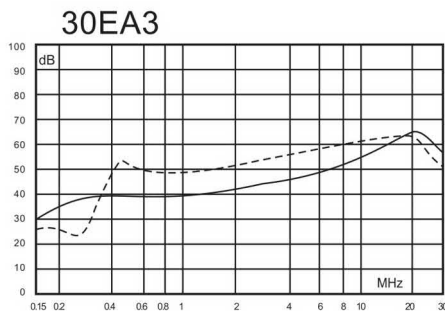
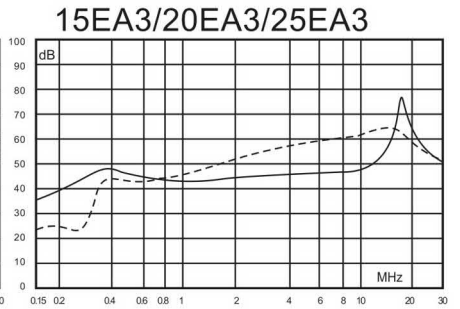
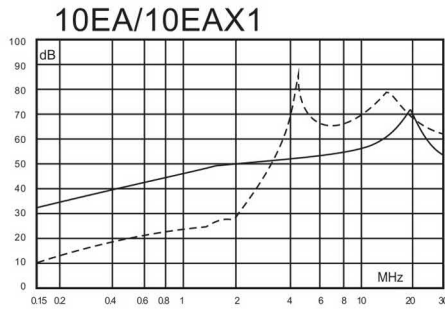
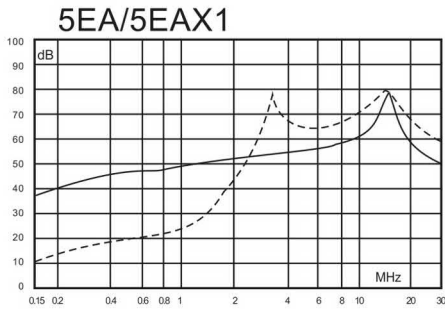


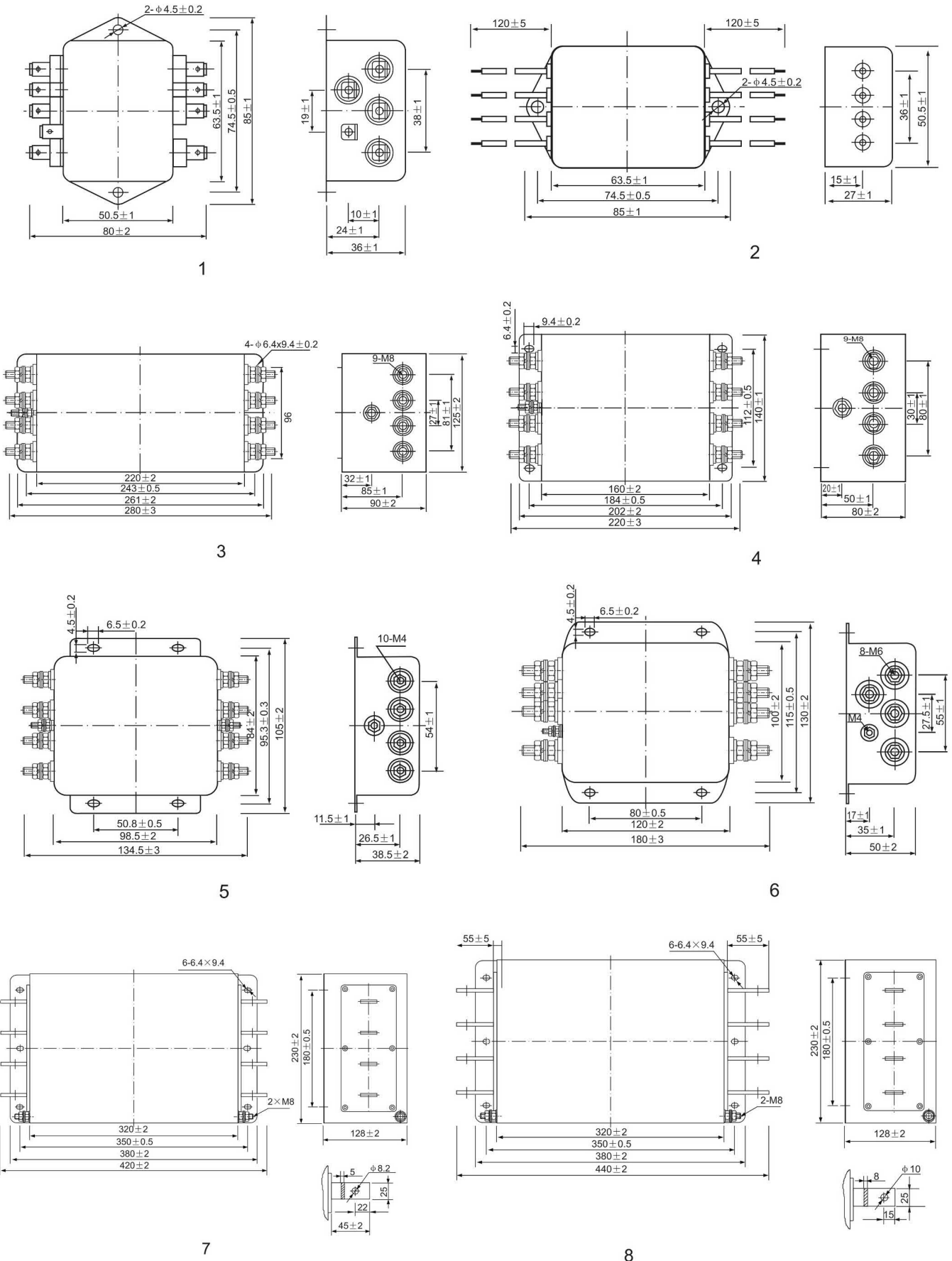
fig.4

Insertion loss characteristics



_____ Common Mode
 - - - - - Differential Mode

Mechanical packaging



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