

EAK1_EAK3 Series

High Performance Power-Line Filters (50-1000A)



Typical application

- Digital systems
- Telecommunication systems
- Medical equipment
- Industrial installations

Features and benefits

- Excellent attenuation starting from low frequency
- High performance for both common and differential mode interference suppression
- Low leakage current

Conformity

- CE EN 60939
- CSA C22,2 | available on request for most types
- UL 1283 | available on request for most types
- Climatic category 40/085/21 (IEC 60068-1)

Technical specifications

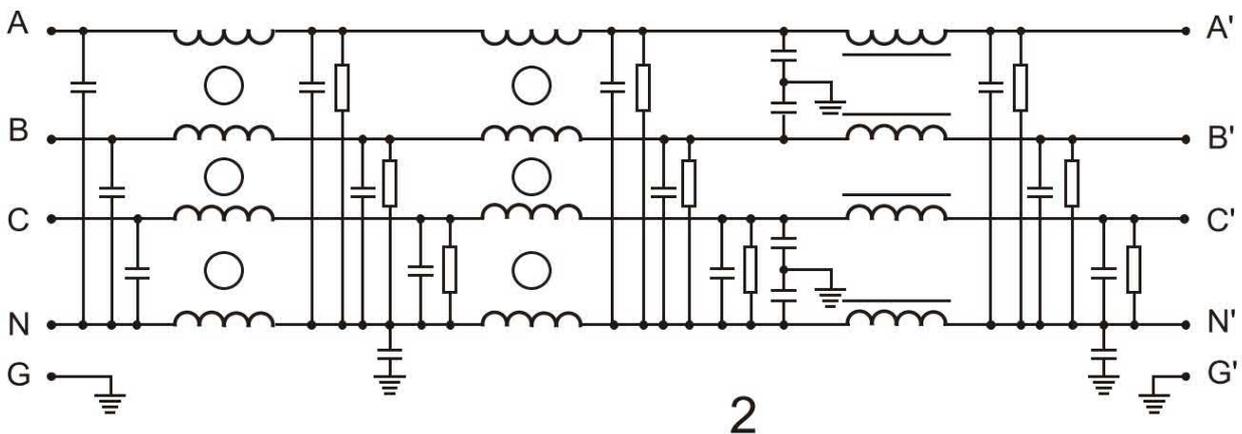
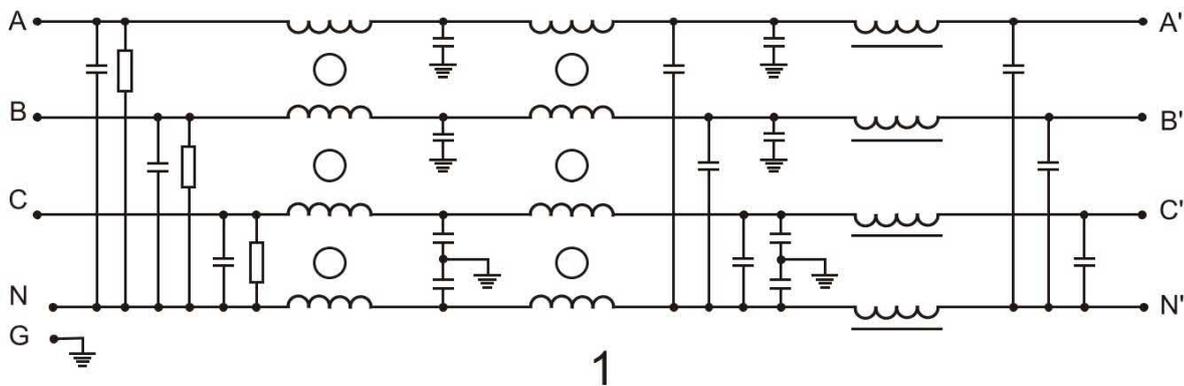
	Symbol	Value	Unit	Remarks
Rated voltage	V_R	440/250	VAC	
Rated current	I_R	50 ... 1000	A	
Ground capacitance		2.4 μ F ... 200	nF	
Operating frequency	f_{op}	50/60	Hz	
Insertion loss		up to 100/100	dB	common/dfferential mode
Leakage current	I_l	---	mA	
Operating temperature	T_{amb}	-40 ... +85	$^{\circ}$ C	
Storage temperature	T_S	-40 ... +85	$^{\circ}$ C	
Test voltage - line to line	V_{test}	1500	VDC	
Test voltage - line to ground	V_{test}	2250	VDC	

Electrical properties

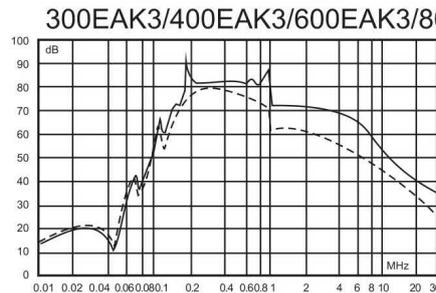
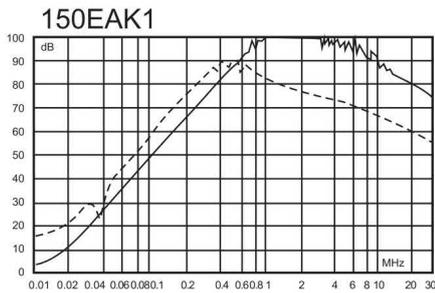
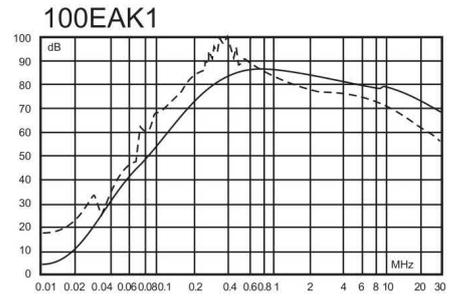
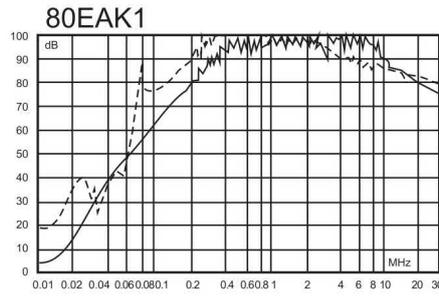
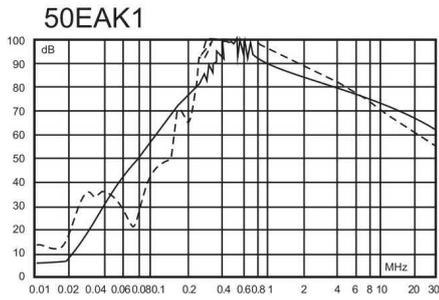
Model	Connection		Rated Current [A]	Ground Capacitance [nF]	Discharge Resistance [KΩ]	Circuit Diagram	Package Type
	Line	Load					
DL-50EAK1	S	S	50	94	440	1	1
DL-80EAK1	S	S	80	200	440	1	1
DL-100EAK1	S	S	100	200	440	1	1
DL-150EAK1	S	S	150	200	440	1	1
DL-300EAK3	B	B	300	2.4μF	660/330	2	2
DL-400EAK3	B	B	400	2.4μF	660/330	2	2
DL-600EAK3	B	B	600	2.4μF	660/330	2	2
DL-800EAK3	B	B	800	3.05μF	660/330	2	3
DL-1000EAK5	B	B	1000	3.05μF	660/330	2	4

Legend: **S** = screw terminal **B** = bus bar

Circuit schematic

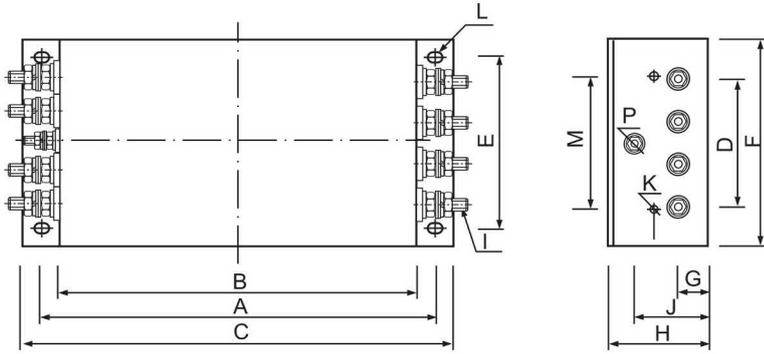


Insertion loss characteristics

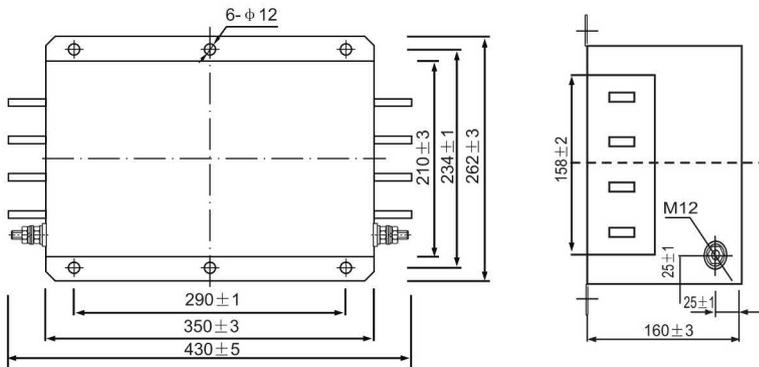


— (Common Mode)
 - - - (Differential Mode)

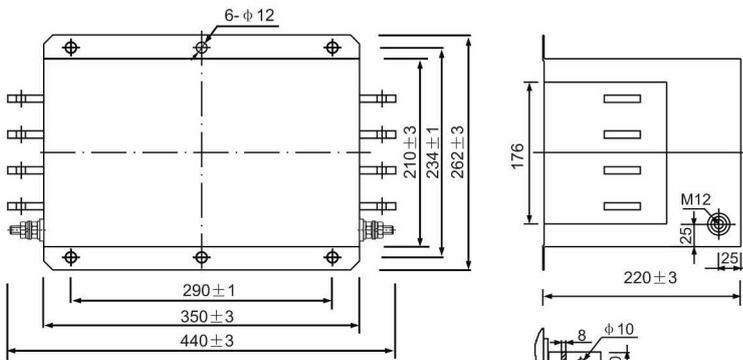
Mechanical packaging



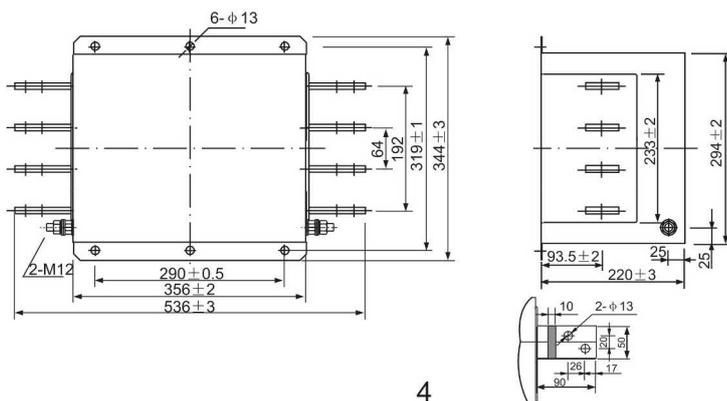
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