EBK6 Series (250-1600A

High Performance Power-Line Filters

Typical application

- Heavy interference industrial control systems
- Unfiltered frequency inverters
- Switch-mode or servo driven power supplies

Features and benefits

- Compact design with protective cover
- Low leakage current
- With advanced two-stage LCR filter circuit
- High attenuation for both common and differential mode

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	480/275	VAC	
Rated current	I_R	250 ... 1600	A	
Ground capacitance		3.2	nF	
Operating frequency	f_{op}	50/60	Hz	
Insertion loss		up to 100/100	dB	common/dfferential mode
Leakage current	I_I	< 41	mA	
Operating temperature	T_{amb}	-40 ... +85	°C	
Storage temperature	T_S	-40 ... +85	°C	
Test voltage - line to line	V_{test}	1500	VDC	
Test voltage - line to ground	V_{test}	2250	VDC	

Electrical properties

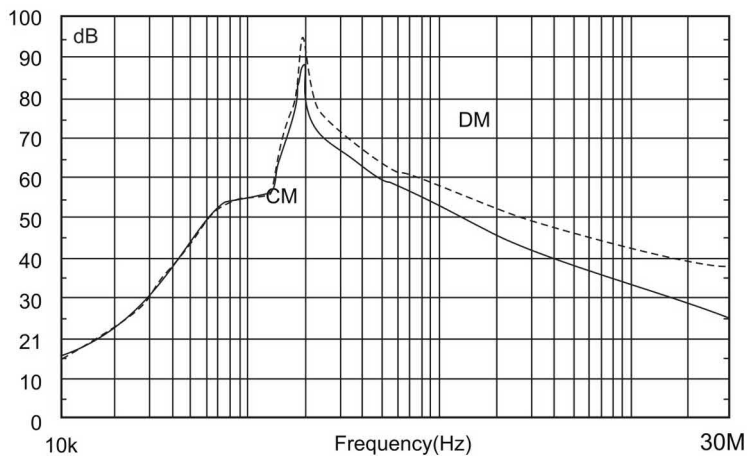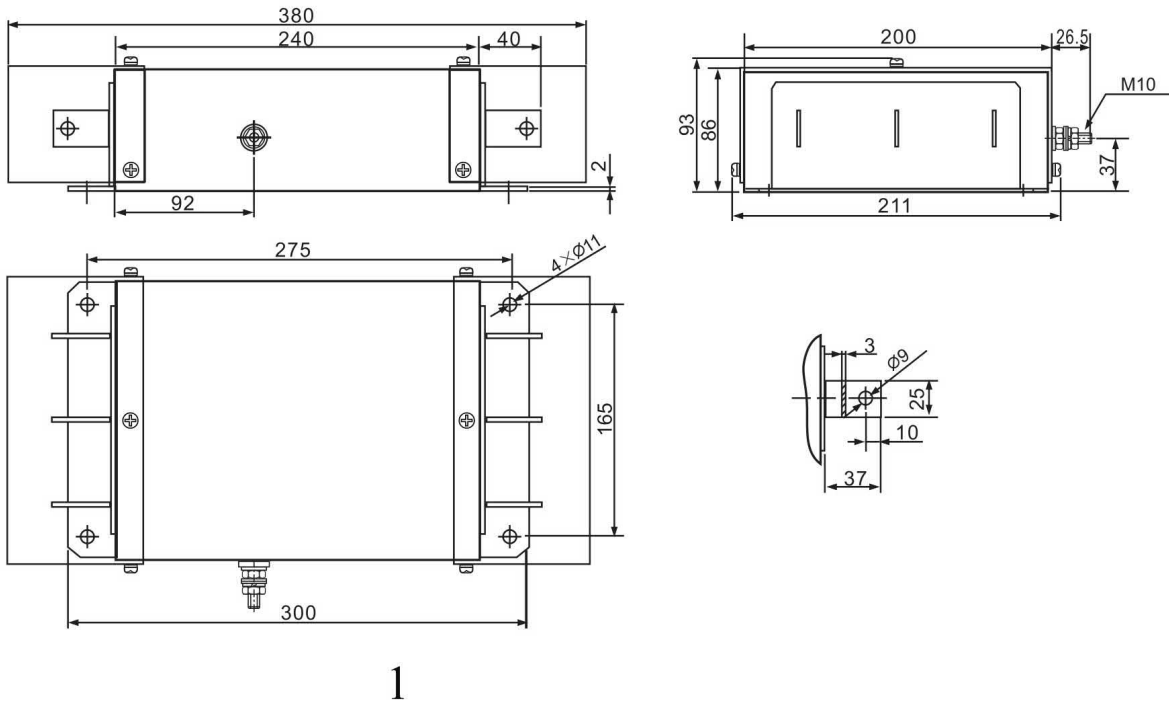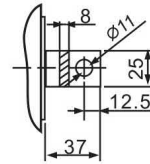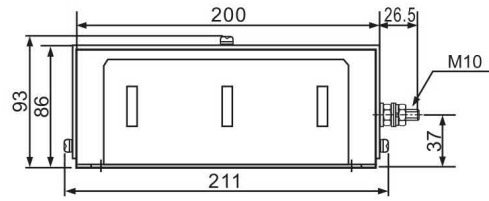| Model	Connection		Rated Current [A]	Ground Capacitance [nF]	Leakage Current [mA] (440VAC/50Hz)	Circuit Diagram	Package Type
	Line	Load					
DL-250EBK6	B	B	250	3.2	<41mA	1	1
DL-300EBK6	B	B	300	3.2	<41mA	1	2
DL-400EBK6	B	B	400	3.2	<41mA	1	2
DL-600EBK6	B	B	600	3.2	<41mA	1	3
DL-800EBK6	B	B	800	3.2	<41mA	1	4
DL-1000EBK6	B	B	1000	3.2	<41mA	1	5
DL-1600EBK6	B	B	1600	3.2	<41mA	1	6

Legend: **B = bus bar**

Circuit schematic
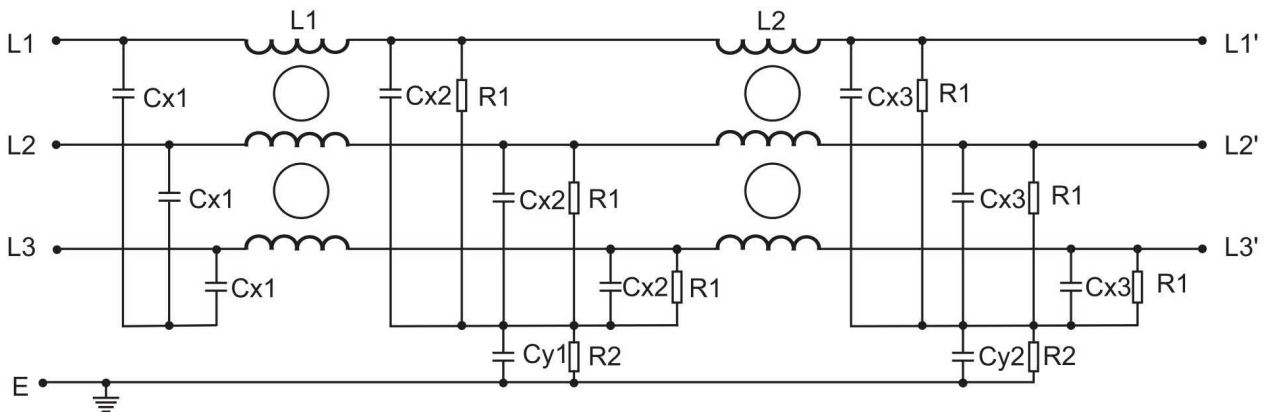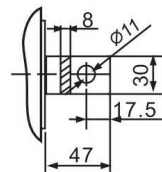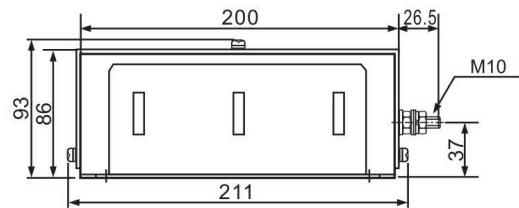

Insertion loss characteristics

_____ Common Mode
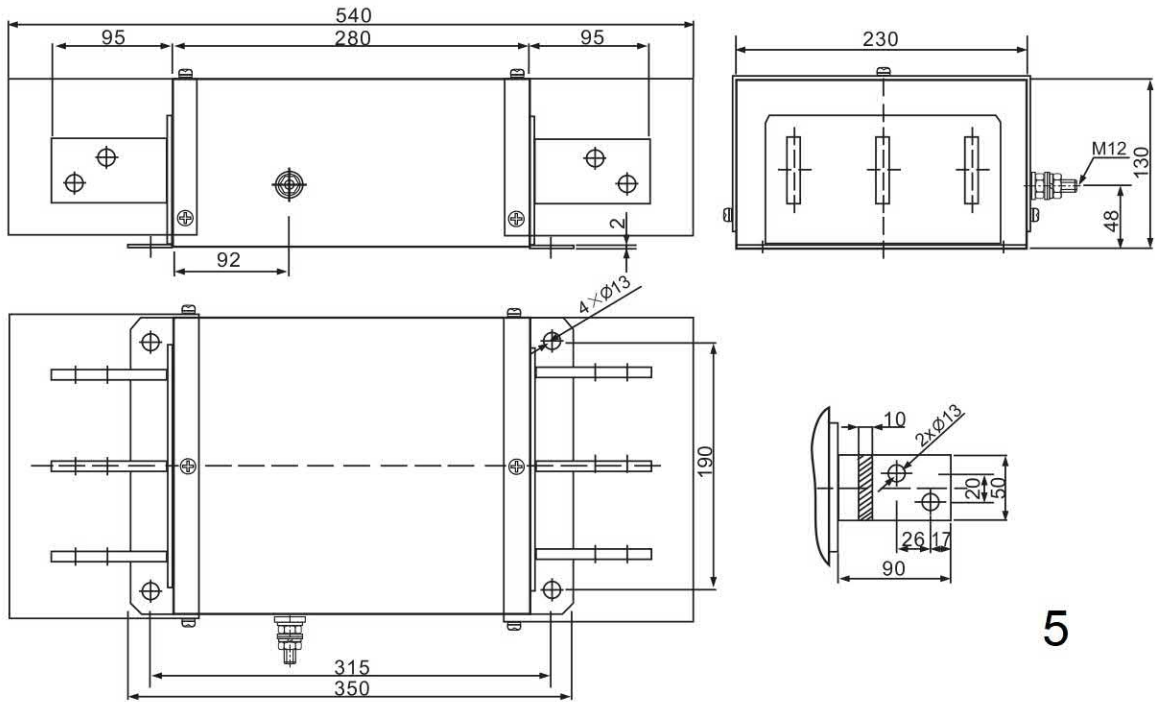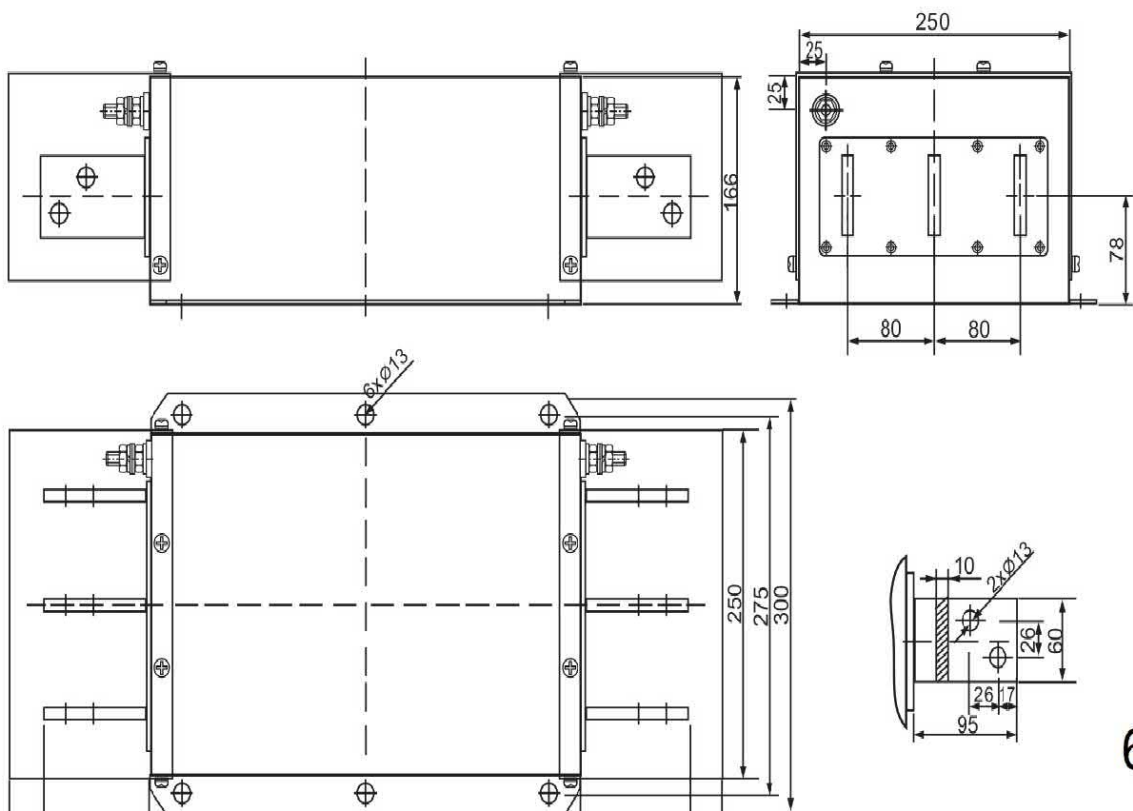- - - - - - Differential Mode

Mechanical packaging

1

2

Figure 3

380
240
40
2
92
275
4×Ø11
165
300

200
26.5
M10
93
86
37
211

8
Ø11
25
12.5
37

3

Figure 4

400
240
50
2
92
275
4×Ø11
165
300

200
26.5
M10
93
86
37
211

8
Ø11
30
17.5
47

4

540

95   280   95

230

M12

130

48

92

2

4×Ø13

190

10   2×Ø13

20   50

26 17

90

315

350

5

250

25

25

166

78

80   80

6×Ø13

10   2×Ø13

250   275   300

26   60

26 17
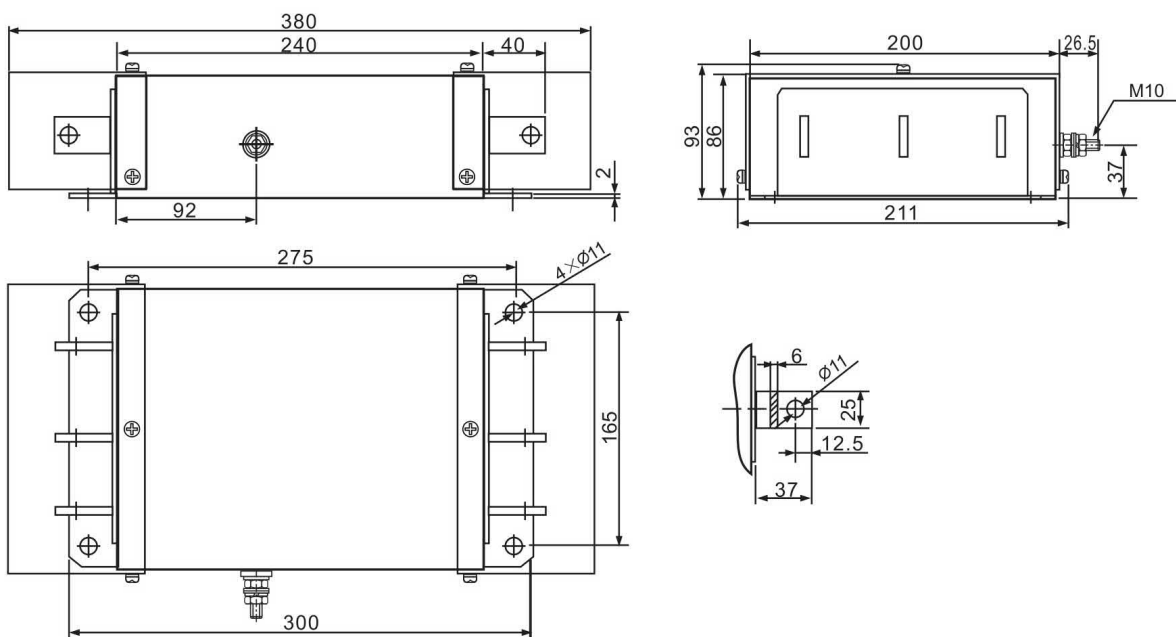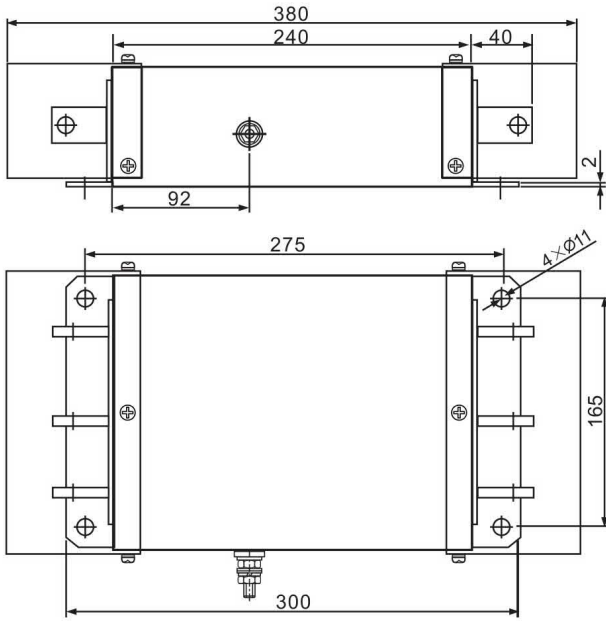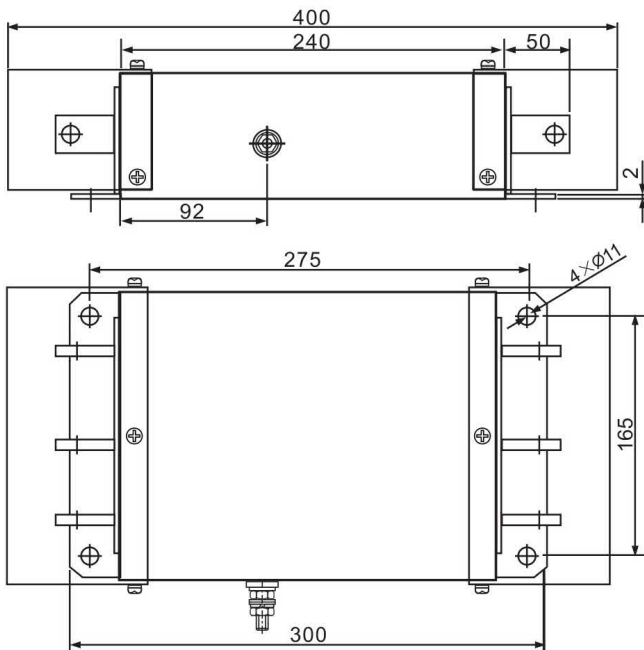
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