

## Three-phase mains filters (3 lines) with Very High Attenuation for Inverters and Drives

Series CNW 110  
Type CNW 114/...

Current: 8 A – 280 A

### Applications:

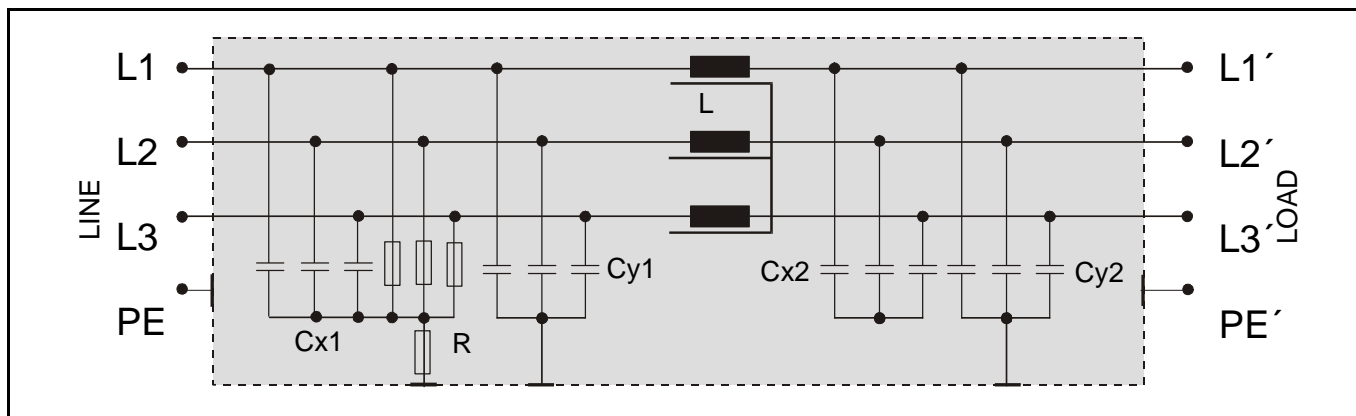
Controlled three phase drives with frequency inverter.

- Packing machines
- Automatic production machines
- Railways
- Cranes
- Pumping apparatus
- Wind power and solar energy plants



Conforms to VDE 0565-3/ IEC 950/ UL 1283	Test voltage L-L 2100 V, DC 1 s    L-PE 2700 V, DC 1s
Overload 1.5 x rated current 1 min / h	Climatic rating DIN IEC 60068-1

### Circuit example



### Benefits:

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Compact design</li> <li>• Reduced weight</li> <li>• Easy installation</li> <li>• Reduced losses</li> <li>• Mechanical stress reduction</li> </ul> | <ul style="list-style-type: none"> <li>• Low heating</li> <li>• low noise</li> <li>• simple connection</li> <li>• Temperature reduction</li> <li>• Reduced harmonic distortions</li> </ul> | <ul style="list-style-type: none"> <li>• Improved power factor</li> <li>• Reduces tripping</li> <li>• Semiconductor life extended</li> <li>• UL Recognized</li> <li>• CE Mark</li> </ul> |
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## Technical data

Type	Rated voltage [V]	Rated current [A]	Leakage current [mA]	$\Sigma Cx$ [ $\mu F$ ]	$\Sigma Cy$ [ $\mu F$ ]	L [mH]	R [ $M\Omega$ ]
CNW 114/8	3 x 440	3 x 8	<16	1.45	0.2	7.5	1.2
CNW 114/8-500	3 x 500	3 x 8	<16	1.45	0.2	7.5	1.2
CNW 114/16	3 x 440	3 x 16	<16	3.0	0.2	5	1.2
CNW 114/16-500	3 x 500	3 x 16	<16	3.0	0.18	5	1.2
CNW 114/25	3 x 440	3 x 25	<180	4.4	1.6	2.3	1.2
CNW 114/25-500	3 x 500	3 x 25	<180	4.0	1.6	2.3	1.2
CNW 114/36	3 x 440	3 x 36	<180	4.4	2	1.4	1.2
CNW 114/36-500	3 x 500	3 x 36	<180	4.0	2	1.4	1.2
CNW 114/50	3 x 440	3 x 50	<180	4.4	2	0.8	1.2
CNW 114/50-500	3 x 500	3 x 50	<180	4.0	2	0.8	1.2
CNW 114/64	3 x 440	3 x 64	<180	4.4	2	0.75	1.2
CNW 114/64-500	3 x 500	3 x 64	<180	4.0	2	0.75	1.2
CNW 114/80	3 x 440	3 x 80	<200	6.8	2.2	0.7	1.2
CNW 114/80-500	3 x 500	3 x 80	<200	6.0	2	0.7	1.2
CNW 114/110	3 x 440	3 x 110	<200	6.8	2.2	0.45	1.2
CNW 114/110-500	3 x 500	3 x 110	<200	6.0	2	0.45	1.2
CNW 114/180	3 x 440	3 x 180	<220	5	2.2	0.5	1.5
CNW 114/280	3 x 440	3 x 280	<260	10	2.6	0.3	1.5

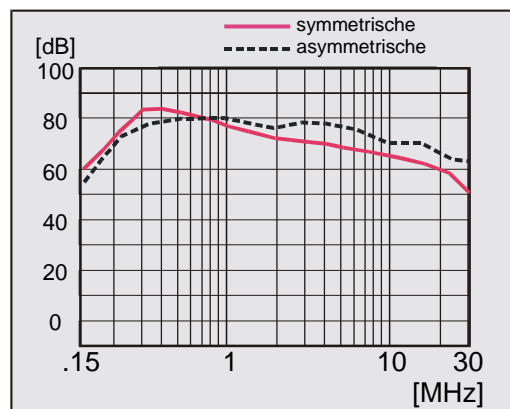
Frequency: 50/60 Hz

When electronic components are mounted into a cabinet, in most of the cases the same circuits with different power are required. To avoid permanent modifications several power ranges can be combined. The filters of this series, within the most important power range, have equal fixing dimensions, so that the filters can be replaced.

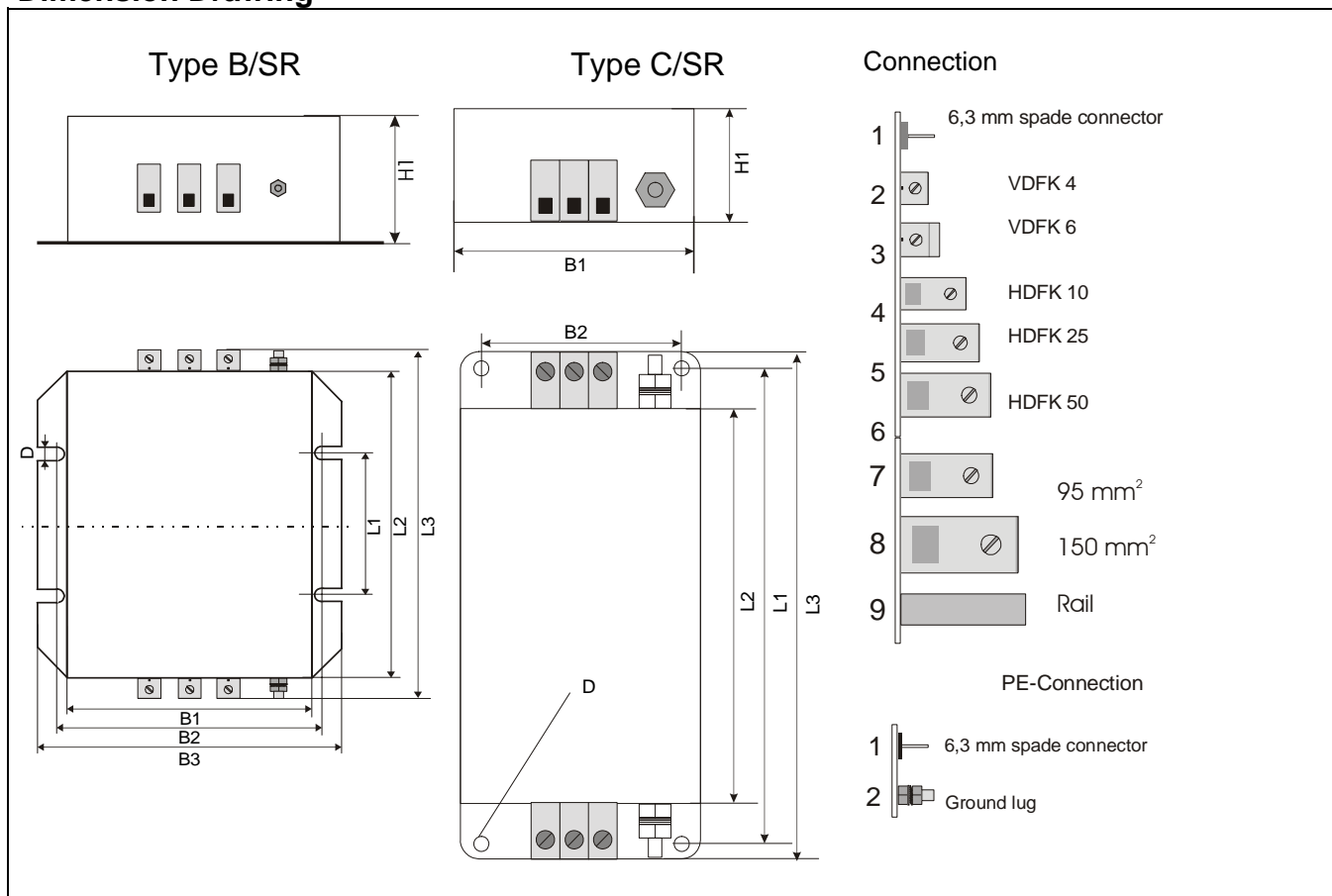
### Equal fixing dimensions for different currents

- 1.) 8 A
- 2.) 16 A, 25 A, 36 A, 50 A
- 3.) 80 A, 110 A
- 4.) 180 A
- 5.) 280 A

### Typical attenuation



## Dimension Drawing



Type	Dimensions								Casing	Connection	PE-Connection
	B1 [mm]	B2 [mm]	B3 [mm]	D [mm]	H1 [mm]	L1 [mm]	L2 [mm]	L3 [mm]			
CNW 114/8	85	100	115	6.5	60	115	180	220	B/SR	2	2 (M6)
CNW 114/16	120	136	150	6.5	65	115	200	240	B/SR	2	2 (M6)
CNW 114/25	120	136	150	6.5	65	115	200	240	B/SR	3	2 (M6)
CNW 114/36	120	136	150	6.5	65	115	200	240	B/SR	4	2 (M6)
CNW 114/50	120	136	150	6.5	65	115	200	240	B/SR	5	2 (M6)
CNW 114/64	120	136	150	6.5	65	115	200	240	B/SR	5	2 (M6)
CNW 114/80	170	130	-	10	90	373	350	400	C/SR	5	2 (M10)
CNW 114/110	170	130	-	10	90	373	350	400	C/SR	6	2 (M10)
CNW 114/180	180	156	-	9	115	470	360	510	C/SR	7 (95 mm <sup>2</sup> )	2 (M10)
CNW 114/280	260	220	-	9	130	660	530	700	C/SR	8 (150 mm <sup>2</sup> )	2 (M10)