Single-phase mains filters (2 lines)

CNW 101/3

Description

Switch-mode power supplies for industrial electronics, telecommunications, data systems engineering and DC applications.

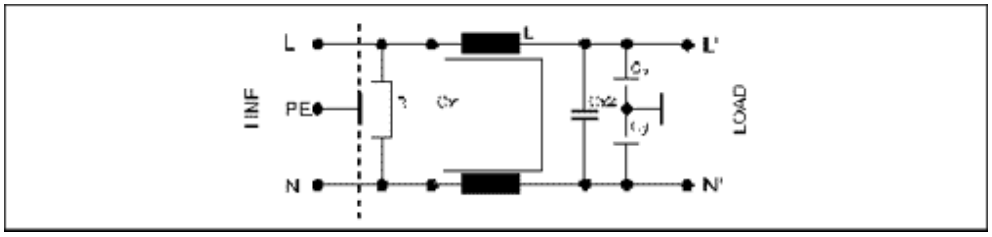
> Conforming to: VDE 0565-3 / IEC 950 / UL 1283
> Test voltage: L-N 2100 V, DC 1s, L/N-PE 2700 V, DC 1s
> Overload: 1,5 x I 1 min/h
> Climatic catagory: DIN IEC 68 Teil 1 25/085/21

compact construction

- touch-proof if used with insulated spade connectors
- good damping performance at a low leakage current
- UL approval for the complete model range – E217177 (not for N- & MED- versions)
- also as a medical version or with a lower leakage current available
- Frequency: AC 50/60 Hz DC
- other leakage currents on request

Option:
– with overvoltage protection

Circuit example



Technial Data

Rated Voltage	250 V
Rated Current	3 A
Inductance	3,3 mH
Leakage Current	<3,5 mA

Type	Rated voltage [V]	Rated current [A]	Leakage current [mA]	Cx [µF]	Cy [nF]	L [mH]	R [kOhm]
CNW 101/3	250	3	<3,5	0,94	20	3,3	560
CNW 101/6		6	<3,5	0,94	20	1,8	560
CNW 101/10		10	<3,5	0,94	20	1,8	560
CNW 101/16		16	<3,5	0,94	20	1,2	560
CNW 101/20		20	<3,5	0,94	20	1,0	560
CNW 101/3/N		3	<0,5	0,94	4,4	3,3	560
CNW 101/6/N		6	<0,5	0,94	4,4	1,8	560
CNW 101/10/N		10	<0,5	0,94	4,4	1,8	560
CNW 101/16/N		16	<0,5	0,94	4,4	1,2	560
CNW 101/20/N		20	<0,5	0,94	4,4	1,0	560
CNW 101/3/MED		3	<0,005	0,94	-	3,3	560
CNW 101/6/ MED		6	<0,005	0,94	-	1,8	560
CNW 101/10/ MED		10	<0,005	0,94	-	1,8	560
CNW 101/16/ MED		16	<0,005	0,94	-	1,2	560
CNW 101/20/ MED		20	<0,005	0,94	-	1,0	560

Irrtümer und Änderungen vorbehalten

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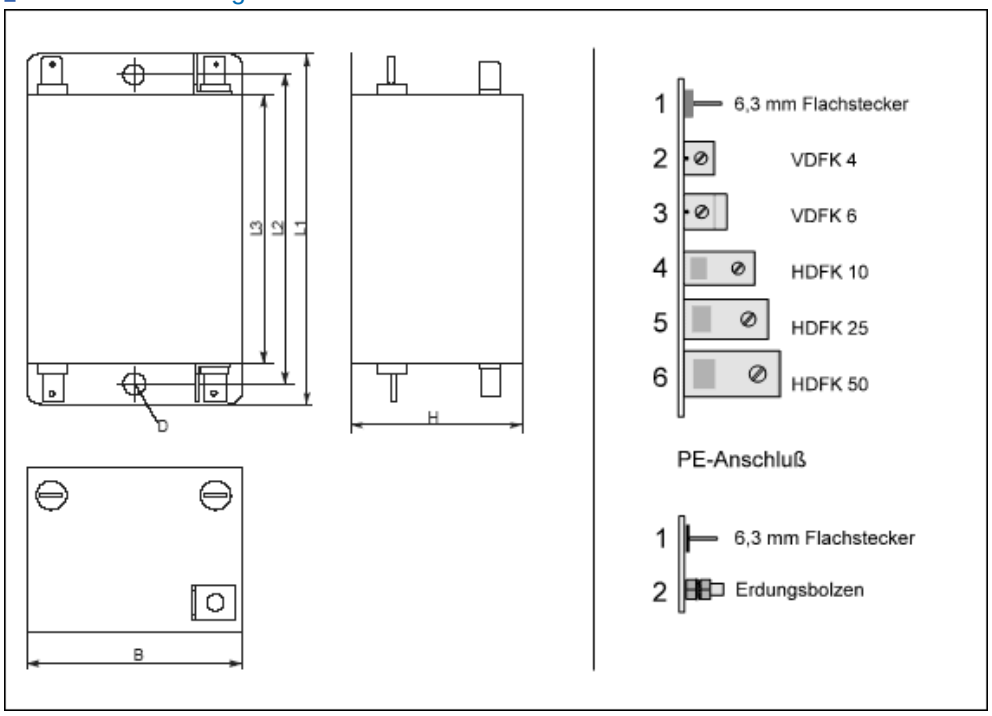
Dimension drawing



Type	Connection	PE-Connection	Dimensions					
			B mm	D mm	H mm	L 1 mm	L 2 mm	L 3 mm
CNW 101/3	1	1	45	4,2	30	70	60	52
CNW 101/6	1	1	45	4,2	30	70	60	52
CNW 101/10	1	1	50	5,3	30	85	75	65
CNW 101/16	1	1	50	5,3	30	85	75	65
CNW 101/20	1	1	50	5,3	30	85	75	65

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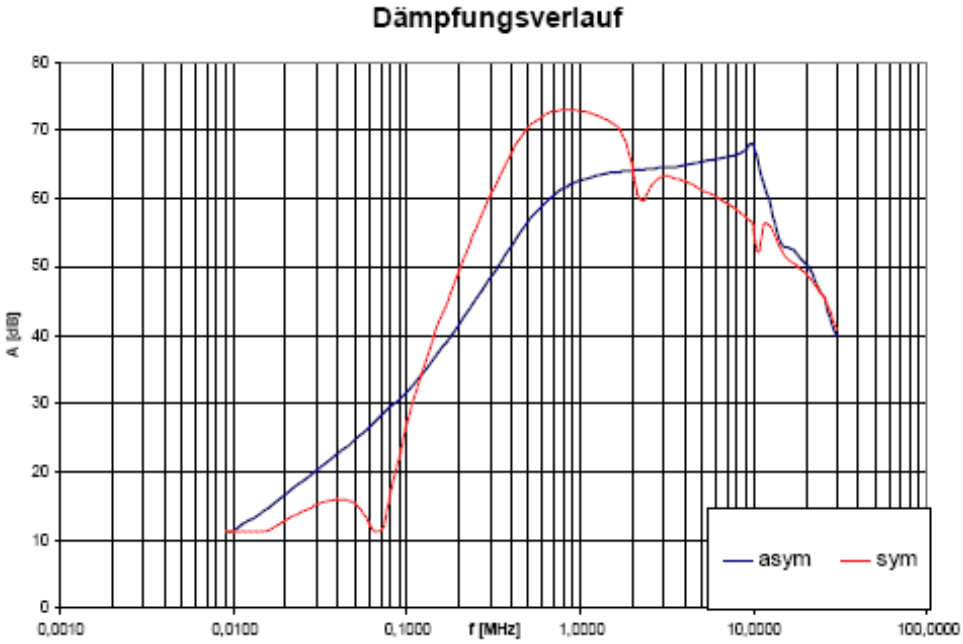

Per CISPR 17

Blaue Kurve 50Ω/50Ω asym.	Rote Kurve 50Ω/50Ω sym.
Blue graph 50Ω/50Ω asym.	Red graph 50Ω/50Ω sym.
Tracé bleu 50Ω/50Ω asym.	Tracé rouge 50Ω/50Ω sym.

Recommended filter for suppressing interference according to EN 55011, Class A and EN 61800-3, category C2
Low-cost filter with small dimensions and good damping performance for the direct installation in a case on the interference source.

The filter is also as a version with low leakage current as well as special medical version (no Y capacitors) available.
Optionally, the filter can be delivered with overvoltage protection.

The connection with insulated spade connections enables a fast and touch-proof assembly.
Also other versions with different connections (like clamp or braid) are possible.

Irrtümer und Änderungen vorbehalten