



Three phase dV/dt Filter

Type CNW 811/...

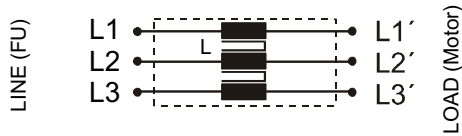
It has been recognised that high dV/dt (voltage rise against time) is undesirable. Furthermore the magnitude of the dV/dt and peak voltage, increases with cable length. Therefore this can have a harmful effect on motors and may cause partial discharge in the isolation materials, leading to premature motor failure. Worse still, under certain conditions, the reflected wave can have a cumulative effect, thus amplifying the problem. The dV/dt filter may be considered in such cases.

Voltage: 3 x 500V
 Switching frequency: 4 - 8 kHz
 Cable run: 0 - 150 metres

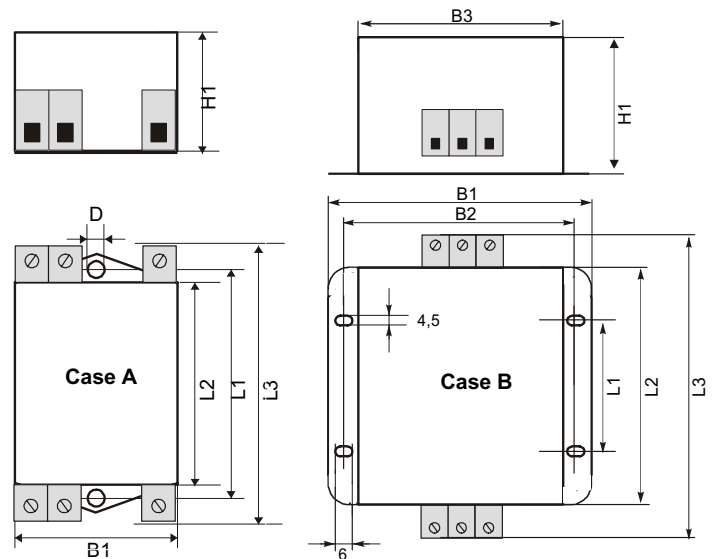
Standards: IEC 950 / VDE 0565-3 / UL 1283
 Test Voltage: L-L 2100 VDC 1s / L-PE 2700 VDC 1s
 Overload: 1.5 x Rated Current for 1min/h
 Climatic rating: DIN IEC 68 Part 1 25/085/21



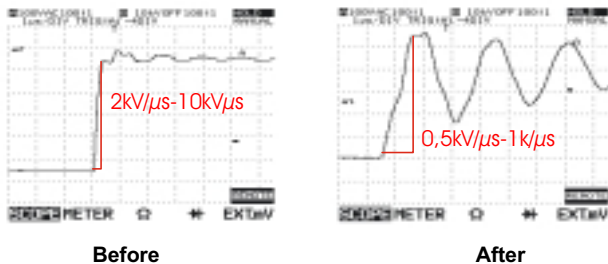
Typical Circuit



Dimensions



Typical Performance



Before and after traces showing the effect of using a dV/dt filter at the output of an inverter, connected to a motor with 100 metres of cable

Type	Current [A]	I [mH]	R _{CU} [mOhms]	Dimensions [mm]									Connections	
				B1	B2	B3	D	H1	L1	L2	L3	Case	Type	
CNW 811/6	6	7.5	50	50	-	-	5	40	75	65	85	A	2	1 6,3 mm Spade connector VDFK 4
CNW 811/10	10	4.5	19	50	-	-	5	40	75	65	85	A	2	3 VDFK 6
CNW 811/16	16	4	12	105	95	84.5	4.5	57	51	100	120	B	3	4 HDFK 10
CNW 811/25	25	2.5	6.8	105	95	84.5	4.5	57	51	100	140	B	4	5 HDFK 25
CNW 811/36	36	1.8	3.5	105	95	84.5	4.5	57	51	100	140	B	5	6 HDFK 50
CNW 811/64	64	1.5	1.5	150	136	120	5.5	65	115	200	240	B	5	PE-Connection
CNW 811/85	85	1.2	1	150	136	120	5.5	65	115	200	240	B	6	1 6,3 mm Spade connector
CNW 811/100	100	0.7	0.7	150	136	120	5.5	65	115	200	260	B	6	2 Earthing bolt

R_{CU} = DC Resistance

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