



High ingress protection ratings make a difference

REO EMC-Filter with IP66

Special print for
SPS 2013

High protection classes up to IP66 for REO EMC filter



The use of electrical and electronic equipment continues to increase, for example in energy systems where control and information technology are situated in close proximity to one another. Therefore they influence each other during operation. To suppress this interference, power filters are needed with high performance.

REO mains filters are suitable for single and three phase. In certain applications complete EMC conformity can be achieved by using large filters for the entire installation.

When using frequency converters system integrators are often challenged with the problem of cost and space restrictions. This solution shows how the use of high ingress protection products can be installed externally and an enclosure will no longer be necessary.

The advantages at a glance:

- ✓ **External mounting, enclosure no longer required**
- ✓ **Particularly robust**
- ✓ **Protection from dust, liquids and slurries**
- ✓ **EMC Filters with special design provide corrosion and salt water protection**

Single-phase mains filters (2 lines) with high attenuation (6 A - 30 A), CNW 541 / IP

Applications:

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

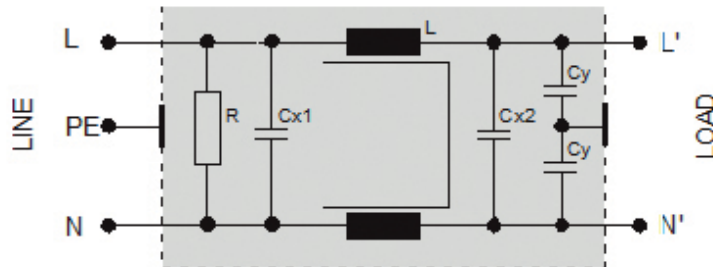
- conforming to VDE 0565-3 / IEC 950 / UL 1283
- Test voltage L-N 2100 V, DC 1 s, L/N-PE 2700 V, DC 1s
- Overload $1,5 \times I_{\text{Nenn}}$ 1 min / h
- Climatic category DIN IEC 60068-1

Benefits:

- compact construction
- universal mounting
- easy installation
- various different connections available
- low temperature rise
- optional suppression
- suitable for use with most frequency converters



Circuit example:



Technical Data:

Type	Rated voltage [V]	Rated current [A]	Leakage current [mA]	Cx [μ F]	Cy [nF]	L [mH]	R [k Ω]
CNW 541/6/IP	250	6	<3,5	0,94	20	1,8	560
CNW 541/10/IP		10					
CNW 541/16/IP		16					
CNW 541/20/IP		20					
CNW 541/30/IP		30					
CNW 541/6/N/IP	250	6	<0,5	0,94	4,4	1,8	560
CNW 541/10/N/IP		10					
CNW 541/16/N/IP		16					
CNW 541/20/N/IP		20					
CNW 541/30/N/IP		30					
CNW 541/6/MED/IP	250	6	<0,005	0,94	-	1,8	560
CNW 541/10/MED/IP		10					
CNW 541/16/MED/IP		16					
CNW 541/20/MED/IP		20					
CNW 541/30/MED/IP		30					

Single-phase mains filters (2 lines) with very high attenuation (3 A – 30 A), CNW 542 / IP

Applications:

Switch-mode power supplies for industrial electronics, frequency converters for motor drives, power supply units and medical applications

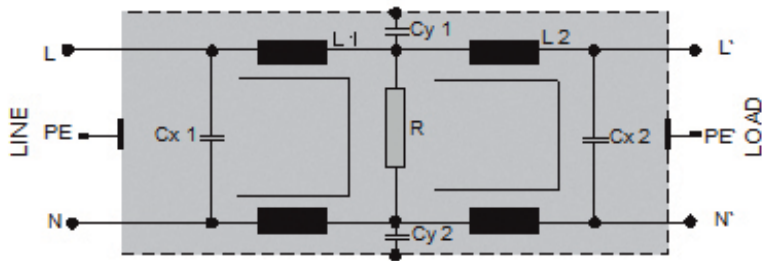
- conforming to VDE 0565-3 / IEC 950 / UL 1283
- Test voltage L-N 2100 V, DC 1 s, L/N-PE 2700 V, DC 1 s
- Overload $1,5 \times I_{Nenn}$ 1 min/h
- Climatic category DIN IEC 60068-1

Benefits:

- compact construction
- universal mounting
- easy installation
- various different connections available
- low temperature rise
- optional suppression
- suitable for use with most frequency converters



Circuit example:



Technical Data:

Type	Rated voltage [V]	Rated current [A]	Leakage current [mA]	Cx [μ F]	Cy [nF]	L [mH]	R [k Ω]
CNW 542/6/IP	250	6	<3,5	0,94	20	7,8	560
CNW 542/10/IP		10				3,6	
CNW 542/16/IP		16				3,6	
CNW 542/20/IP		20				2,0	
CNW 542/30/IP		30				0,8	
CNW 542/6/N/IP	250	6	<0,5	0,94	4,4	7,8	560
CNW 542/10/N/IP		10				3,6	
CNW 542/16/N/IP		16				3,6	
CNW 542/20/N/IP		20				2,0	
CNW 542/30/N/IP		30				0,8	
CNW 542/6/MED/IP	250	6	<0,005	0,94	-	7,8	560
CNW 542/10/MED/IP		10				3,6	
CNW 542/16/MED/IP		16				3,6	
CNW 542/20/MED/IP		20				2,0	
CNW 542/30/MED/IP		30				0,8	

Three-phase mains filters (3 lines) with high attenuation (10 A – 36 A), CNW 543 / IP

Applications:

Frequency converters for motor drives, wind power installations and power supply units

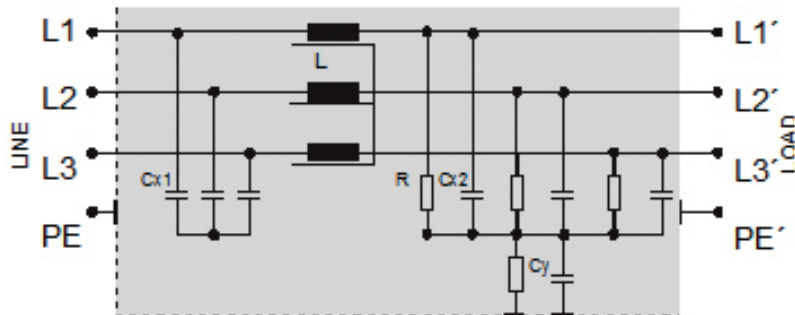
- conforming to VDE 0565-3 / IEC 950 / UL 1283
- Test voltage L-N 2100 V, DC 1 s, L/N-PE 2700 V, DC 1 s
- Overload $1,5 \times I_{Nenn}$ 1 min / h
- Climatic category DIN IEC 60068-1

Benefits:

- compact construction
- universal mounting
- easy to install
- aluminium-profile housing
- various different connections available
- low running temperature
- suitable for use with almost all types of frequency converters



Circuit example:



Technical Data:

Type	Rated voltage [V]	Rated current [A]	Leakage current [mA]	L [mH]	Cx [μ F]	Cy [nF]	Rx [k]	Ry [k]
CNW 543/10/IP	3 x 480	10	<30	4,5	1,6	375	560	560
CNW 543/16/IP		16		3,7				
CNW 543/25/IP		25		1,9				
CNW 543/30/IP		30		1,5				
CNW 543/36/IP		36						

- REO Unity
- REO at your side
- REO Service

REO Unity

- All from one single source :
Components in and around the
frequency converter - as stand-alone
products or designed as a complete system
(including housing, fan, etc.)
- Customized solutions

REO Service

- From the simulation model to
mature end product
- Taking into account international
certifications and standards
- Verification of all technical
parameters, long-term measurements
- Documentations and tests
with all products

REO at your side

- Certified production processes
- 1:1 production transfer
- Same test and production
equipment



Worldwide Sales Network

With a worldwide sales network and comprehensive product portfolio, REO can react rapidly to your wishes anywhere in the world - no matter what language you speak. Besides our wide selection of standard products, we can of course offer you tailor-made solutions, developed specially to meet your wishes. Our production facilities in China, India and the USA are equipped in exactly the same way as those in Germany, and designed to provide the same product at the same quality.

Using the same software and with development and design in Germany we ensure that REO products are always up to the latest state of the art.

Wherever you are, even after the 1000th production run, a REO product always has the same quality.



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