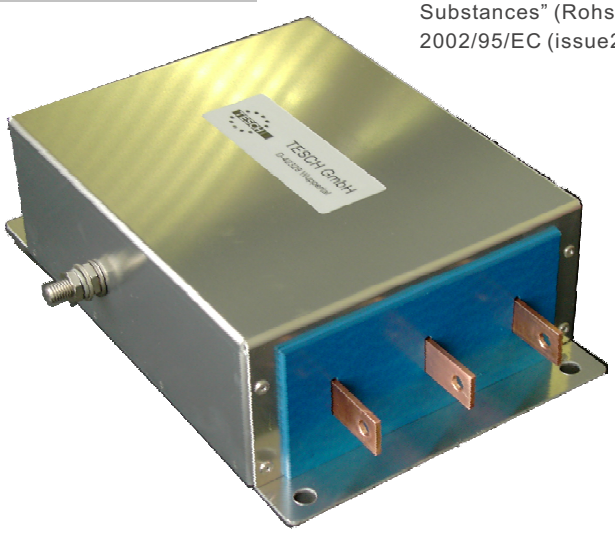
Three-phase EMC / RFI-Filter

NF 310

Lead (PB)-free
Compatible with "Restriction of the use of Hazardous Substances" (Rohs) direktive 2002/95/EC (issue2004)

Pb-free



Features

- High insertion loss
- Space-saving design
- Easy installation and contacting
- Solid, touch safe connection technology according to EN60204-1
  Optionally available transparent protective covers for all filters with busbars from 150A to 600A
- Guaranteed filter performance under full-load operating conditions
- Excellent price / performance ratio
- Attenuation performance according to EN 61800-3/A11
- UL up to NF310/65

Technical specifications

Maximum operating voltage:	3 x 520 VAC
Operating frequency:	50/60 Hz
Rated current:	10A - 600A @ 50°C
Test voltage:	2200V-, 2 s (line/line) 2700V-, 2 s (line/case)
Degree of protection:	IP20
Overload capability:	1,5 * Ir for 1min per hour
Temperature range:	-25°C to +100°C (25/100/21)
Design complies with:	EN 133200, UL 1283 CSA22.2 No.8 1986-4,

Applications

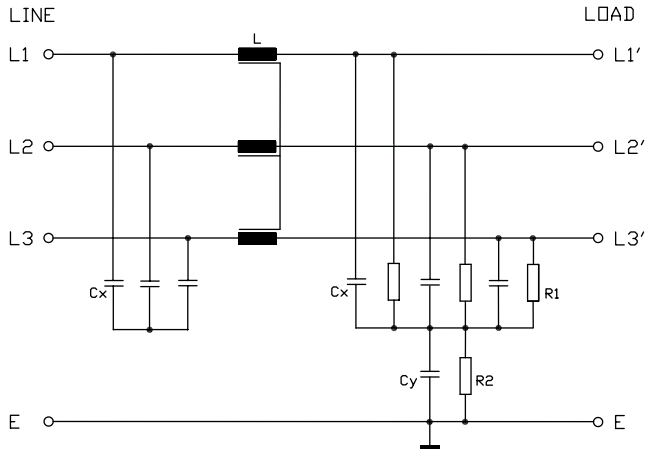
- Servo drives
- Motor drives
- Power electronics
- Frequency converter
- Power supplies
- Variable speed electrical power drive systems
- Frequency inverter

Models and Ordering Data

Order No.	Type	Rated Current (A)	Leakage Current* (mA)	Terminal cross section	Approx. weight (kg)	Dimensional Drawing No.
003 02 150	NF 310-10	10	38	4mm²/ AWG 10	0.8	1
003 02 151	NF 310-16	16	38	4mm²/ AWG 10	0.8	1
003 02 152	NF 310-25	25	38	6mm²/AWG 8	1.7	1
003 02 153	NF 310-36	36	38	10mm²/AWG 6	2.0	1
003 02 154	NF 310-50	50	38	25mm²/AWG 2	2.4	1
003 02 155	NF 310-65	65	38	25mm²/AWG 2	2.4	1
003 02 156	NF 310-80	80	38	50mm²/AWG 0	4.4	1
003 02 157	NF 310-100	100	38	50mm²/AWG 0	5.2	1
003 02 158	NF 310-150	150	76	Busbar 20x3	7.5	2
003 02 159	NF 310-200	200	76	Busbar 20x3	7.5	2
003 02 160	NF 310-250	250	76	Busbar 20x3	7.5	2
003 02 161	NF 310-320	320	76	Busbar 25x6	8.4	2
003 02 162	NF 310-400	400	76	Busbar 25x6	8.4	2
003 02 163	NF 310-600	600	76	Busbar 25x8	8.9	2

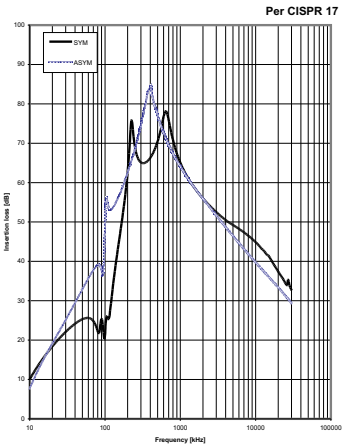
* Maximum Leakage current under normal operating conditions.
Note: If two phases are interrupted, worst case leakage could reach 5.2 times higher levels.

Typical circuit diagram

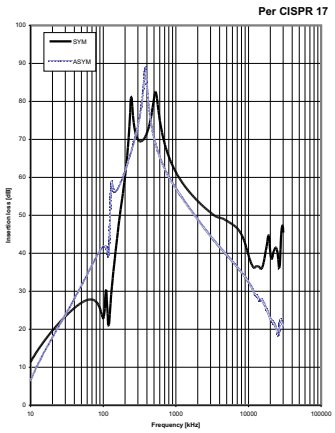


Insertion loss (typical values @ Z=50 Ohm)

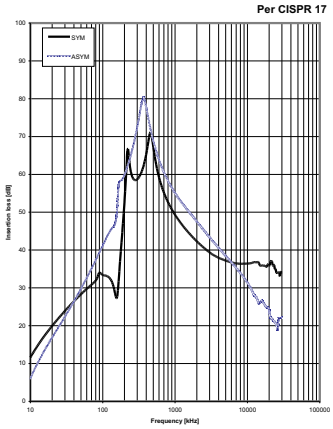
NF310/10-25



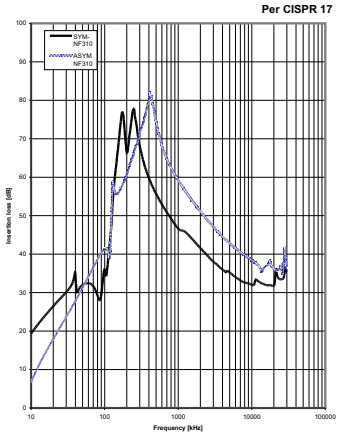
NF310 /36-65



NF310/80-100



NF310/150-600



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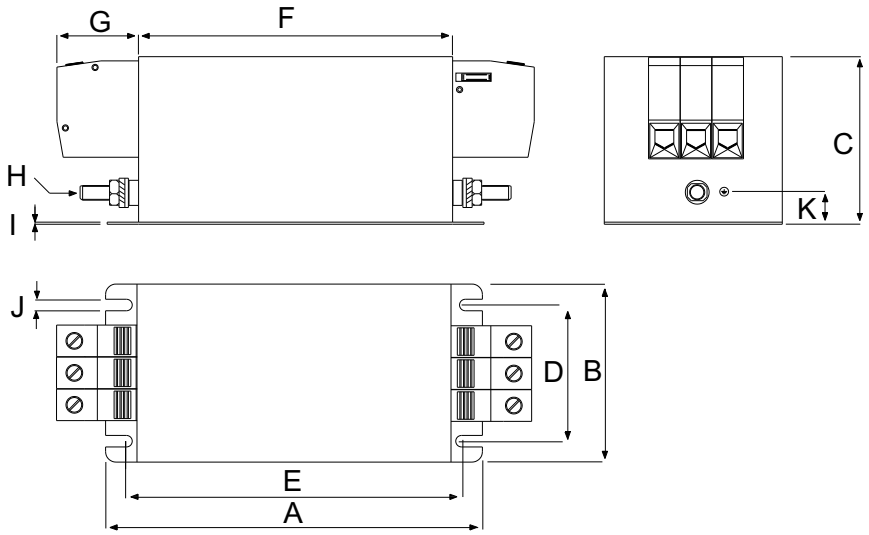
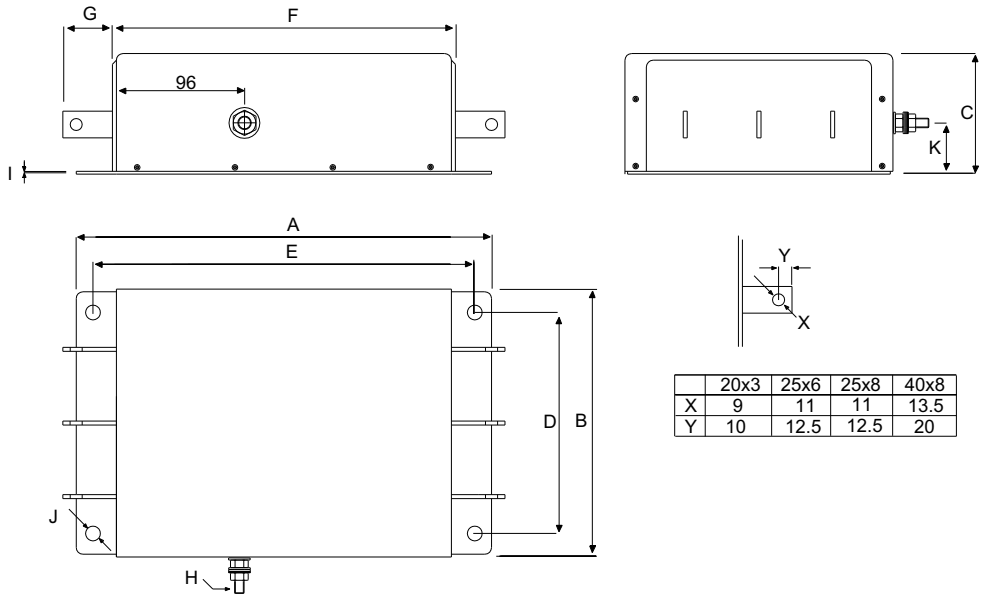
Dimensional drawings

NF 310 / 10 - 100



NF 310 / 150 - 600



	20x3	25x6	25x8	40x8
X	9	11	11	13.5
Y	10	12.5	12.5	20

Dimensions

	10 - 16	25	36	50 - 65	80 - 100	150 - 600
A	230			180	240	310
B	50			85	95	200
C	80			80	90	90
D	25			65	75	165
E	215			164	223	285
F	200			150	210	250
G	12	16	25	39	43	40
H	M6x25			M6x25	M8x40	M10x30
I	1			1	1,5	2
J	5,5			5,5	5,5	11
K	15			15	16	37

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