

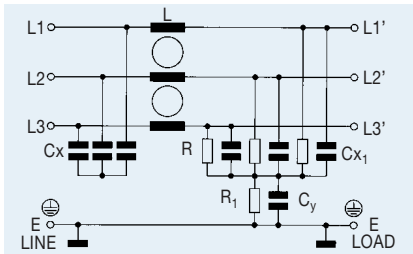
FN 3100/FN 3110

RFI-Filter for Regeneration Units

- 35 to 300A current ratings
 - Exceptional attenuation from 150kHz to 30MHz
 - Excellent saturation resistance
 - Suitable for regeneration of returning power (via line reactor)
- Nennströme von 35 bis 300A
 - Hervorragende Einfügungsdämpfung von 150kHz bis 30MHz
 - Sehr hohe Sättigungsfestigkeit
 - Geeignet für Rückspeisebetrieb ins Netz (via Netzdrossel)
- Courants de service de 35 à 300A
 - Excellente atténuation de 150kHz à 30MHz
 - Seuil de saturation élevé
 - Convient pour la récupération d'énergie (à travers une self de ligne)



Electrical schematic



Approvals



FN 3100 up to 150A

Technical specifications

Max. operating voltage:
 Operating frequency:
 High potential test voltage (factory test):
 Protection category:
 Overload:
 Temperature range:
 Flammability corresponding to:
 Design corresponding to:

FN 3100-series

520VAC @ 50°C
 DC to 60Hz @ 50°C
 P ⇒ E 3000VDC for 2 sec
 P ⇒ P 2900VDC for 2 sec
 IP20
 4 times rated current at switch on, 1.5 times rated current for 1 minute, once per hour
 -25°C to +100°C
 UL 94V-2
 UL 1283, CSA22.2 No. 8 1986, EN 133200

FN 3110-series

480VAC @ 50°C
 DC to 60Hz @ 50°C
 P ⇒ E 2700VDC for 2 sec
 P ⇒ P 2100VDC for 2 sec
 IP20
 4 times rated current at switch on, 1.5 times rated current for 1 minute, once per hour
 -25°C to +100°C
 UL 94V-2
 UL 1283, CSA22.2 No. 8 1986, EN 133200

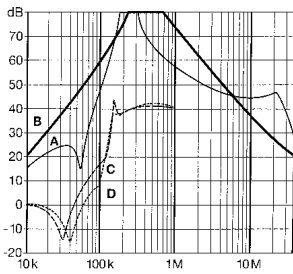
Filter	Current rating @ 50°C (40°C) A	Leakage current* 400VAC/50Hz mA	Power loss W	I/O connections	Weight kg
FN 3100 - 35 - 33	35 (39.5)	48.9	11.8	33	2.3
FN 3100 - 50 - 34	50 (56.5)	66.1	18	34	3.4
FN 3100 - 80 - 35	80 (90.4)	71.5	25.9	35	5.3
FN 3100 - 110 - 35	110 (124.3)	71.5	32.7	35	5.4
FN 3100 - 150 - 40	150 (169.5)	71.5	50.6	40	8.5
FN 3100 - 200 - 40	200 (226)	71.5	60	40	9.1
FN 3100 - 230 - 40	230 (230)	71.5	36.5	40	9.2
FN 3100 - 300 - 99	300 (335)	71.5	54	99	11.8
FN 3110 - 50 - 52	50 (55)	66.1	19.5	52	2.7
FN 3110 - 80 - 35	80 (88)	71.5	36.5	35	4.4

* Max. leakage under normal working conditions. Note: if two phases are interrupted, worst case leakage could reach 5.3 times higher levels.

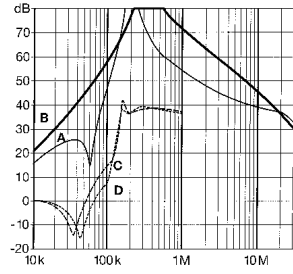
FN 3100 insertion loss

Per CISPR 17; A = 50Ω/50Ω sym; B = 50Ω/50Ω asym; C = 0.1Ω/100Ω sym; D = 100Ω/0.1Ω sym

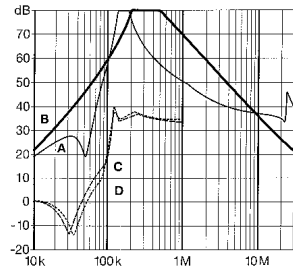
35A types



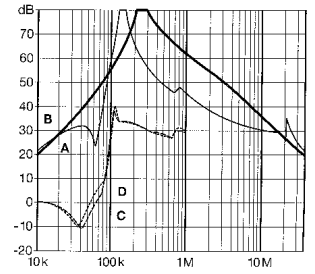
50A types



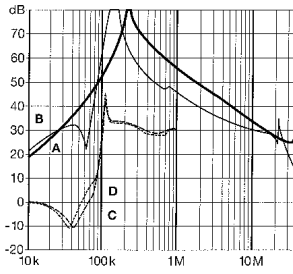
80A types



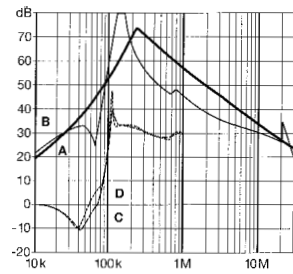
110A types



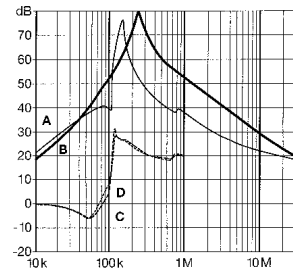
150A types



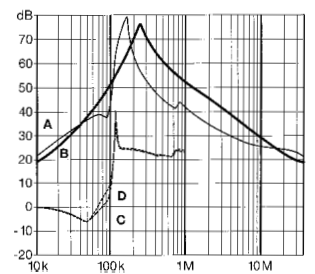
200A types



230A types

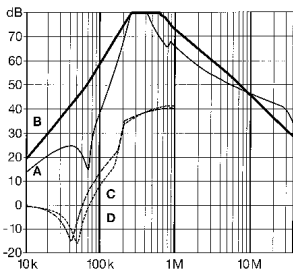


300A types

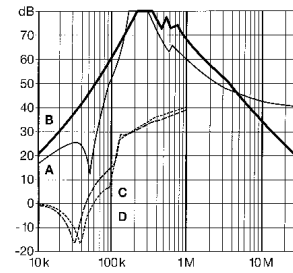


FN 3110 insertion loss

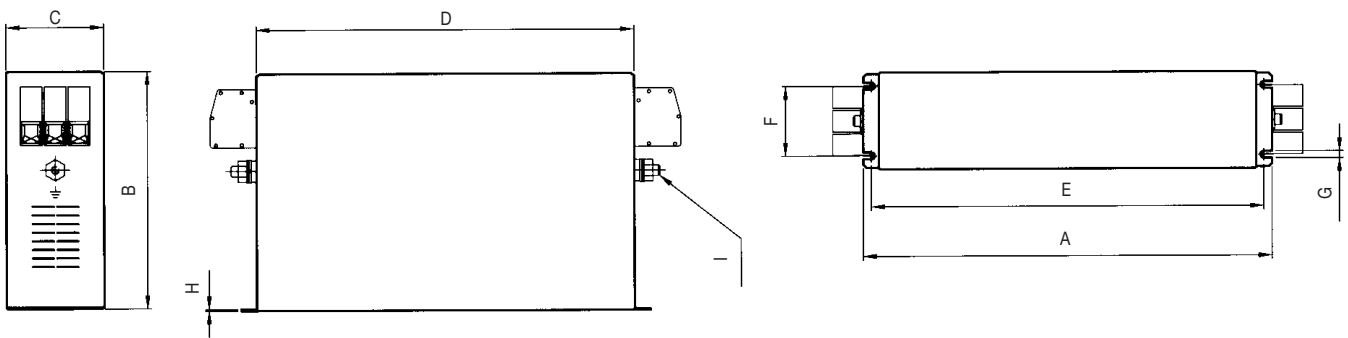
50A types



80A types



Mechanical data



	FN 3100						FN 3110		Tol.		
	35A	50A	80A	110A	150A	200A	230A	300A	50A	80A	mm
A	335	329		379		438		440	270	310	± 1.0
B	150	185		220		240		200	135	170	± 1.0
C	60	80		90		110		200	80	110	± 0.8
D	305	300		350		400			240	280	± 1.0
E	320	314		364		413		420	255	295	± 0.5
F	35	55		65		80		160	60	80	± 0.3
G				6.5				8	6.5		± 0.2
H	1		1.5			4		1.5	1.5		± 0.2
I	M5	M6		M10				M12	M6	M10	-

All dimensions in mm; 1 inch = 25.4 mm