

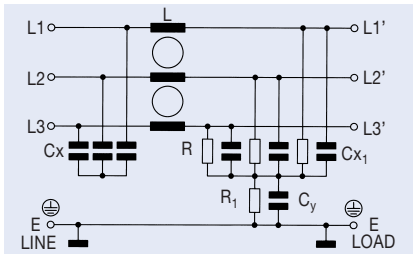
## FN 3100/FN 3110

## 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

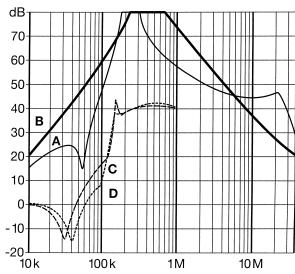
Filter	Current rating @ 50°C (40°C) A	Leakage current* 400VAC/50Hz mA	Power loss W	I/O connections	Weight kg
FN 3100 - 35 - 33	35 (39.5)	48.9	11.8	33	2.3
FN 3100 - 50 - 34	50 (56.5)	66.1	18	34	3.4
FN 3100 - 80 - 35	80 (90.4)	71.5	25.9	35	5.3
FN 3100 - 110 - 35	110 (124.3)	71.5	32.7	35	5.4
FN 3100 - 150 - 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.

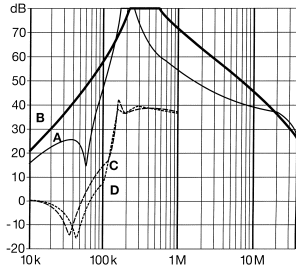
## FN 3100 insertion loss

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

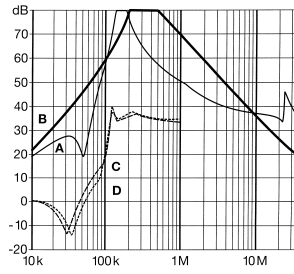
### 35A types



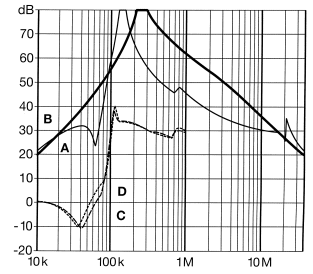
### 50A types



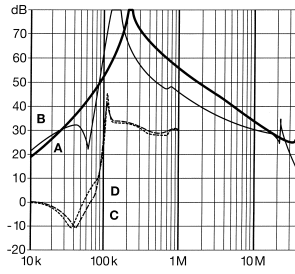
### 80A types



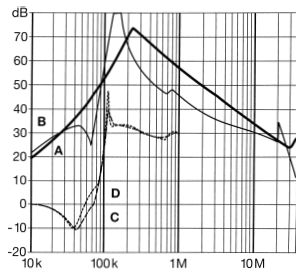
### 110A types



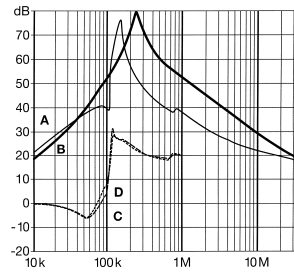
### 150A types



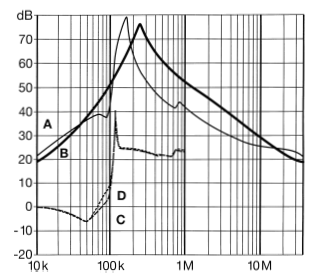
### 200A types



### 230A types

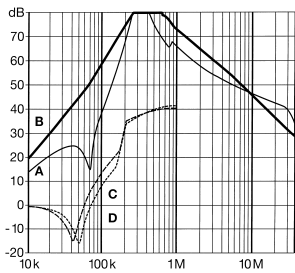


### 300A types

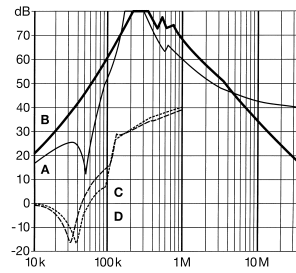


## FN 3110 insertion loss

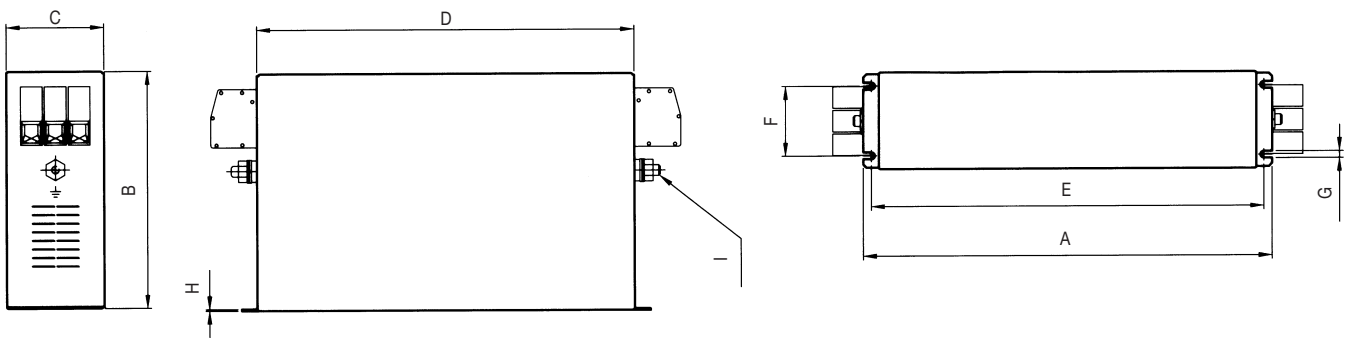
### 50A types



### 80A types



## Mechanical data



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

All dimensions in mm; 1 inch = 25.4 mm