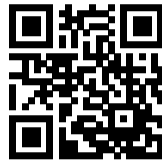


EMC/RFI Filter for Japanese Market



- Rated current 20 A to 75 A
- Industry standard noise filters for three-phase power drive systems
- Ultra-low leakage current
- Terminal block with safety cover
- High saturation capability



Technical Specifications

Maximum continuous operating voltage	3x520/300 VAC
Nominal operating voltage	480 VAC
Rated currents	20 to 75 A @ 50°C
Overload capability	4x rated current at switch on, 1.5x rated current for 1 minute, once per hour
Operating frequency	DC to 60 Hz
High potential test voltage	P → E 2000 VAC for 2 sec P → P 2250 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Protection category	IP 00 (acc. IEC 60529-1)
Flammability corresponding to	UL 94 V-0
Design corresponding to	IEC/EN 60939
MTBF (Mil-HB-217F)	>327,000 h @ 40°C/400 V

Approvals & Compliances



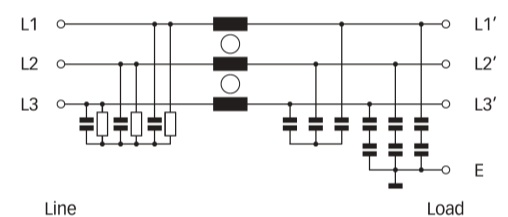
Features and Benefits

- Satisfies the low leakage current required for Japanese delta-connected power supplies.
- Comes with a terminal block equipped with a safety cover.

Typical Applications

- Three-phase variable speed drive/Power Drive System (PDS)
- Product equipment including energy conversion devices (inverters, converters)
- Process Automation Equipment
- Three-phase power supply and uninterruptible power supply (UPS)
- Applications requiring low leakage current

Typical electrical schematic



Filter Selection Table

Filter	Rated current	Leakage current*	Leakage current**	Typical Power loss***	Weight	Input/Output
	@ 50°C	440 V/50 Hz	250V/60Hz** corner grounded	@ 25°C		connections
	[A]	[mA]	[mA]	[W]	[kg]	
Standard Housing						
FN3011-20-61	20	0.05	1.75	6.0	0.56	-61
FN3011-30-61	30	0.05	1.75	8.1	0.74	-61
FN3011-50-62	50	0.05	1.75	12	1.35	-62
FN3011-75-62	75	0.05	1.75	22	1.77	-62

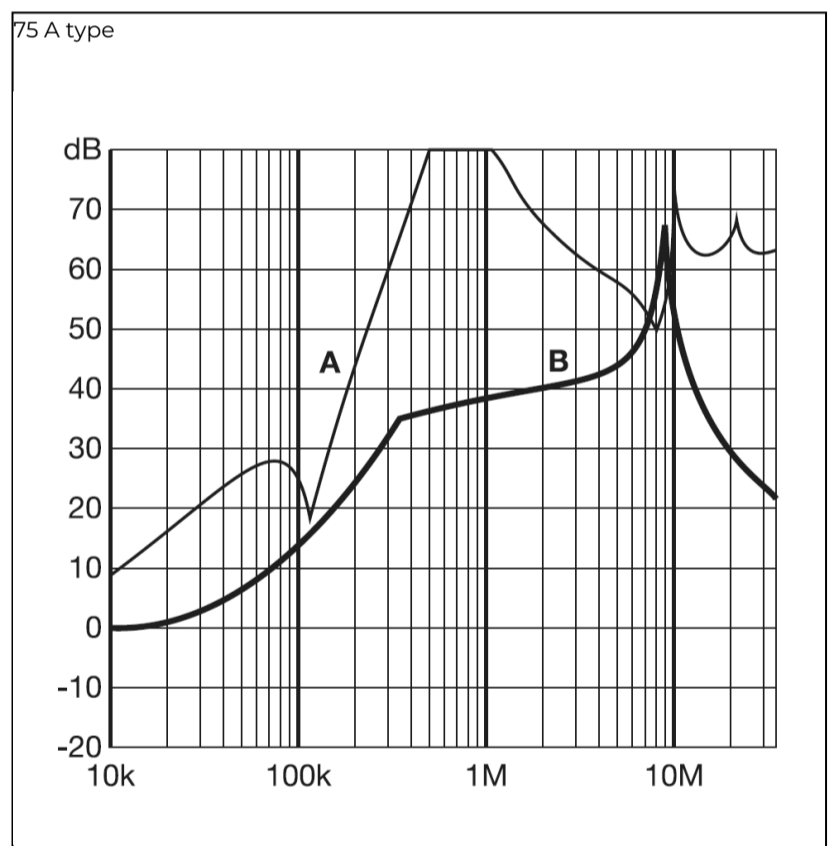
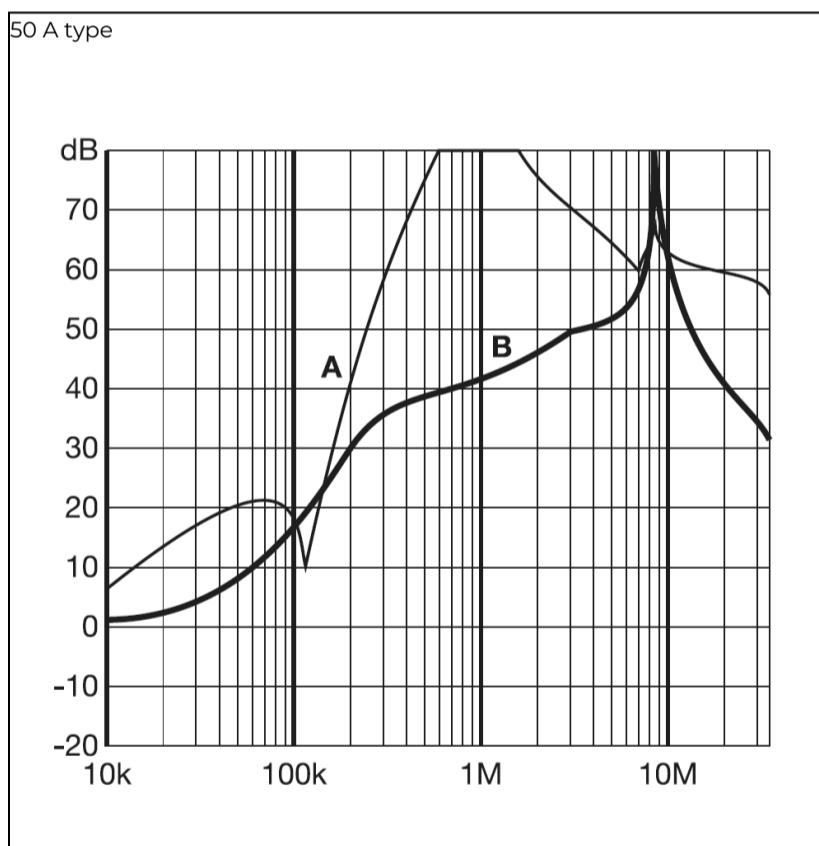
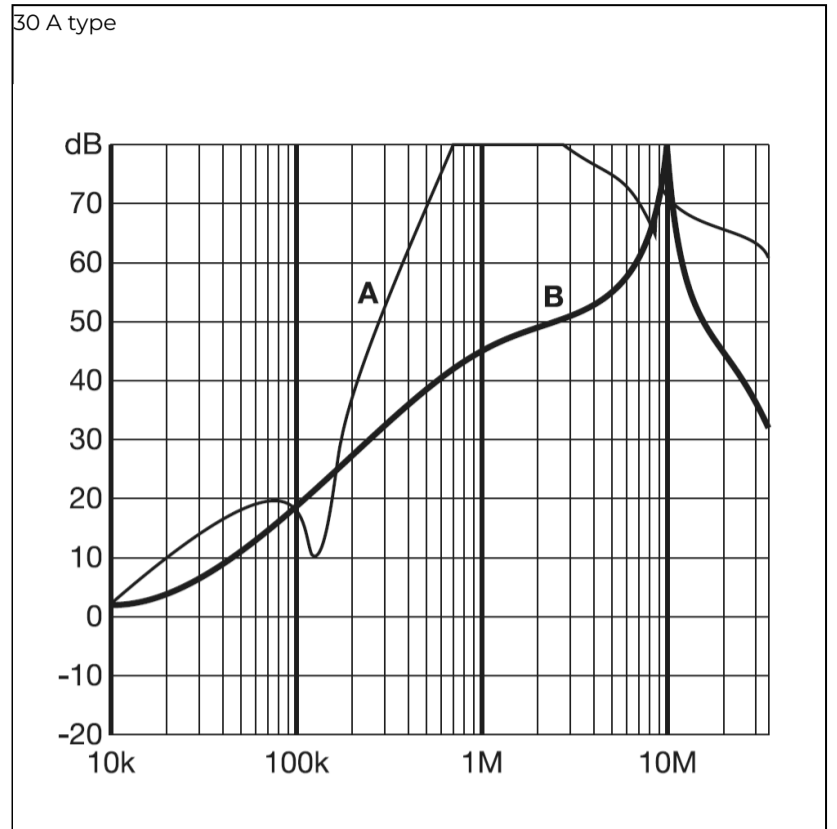
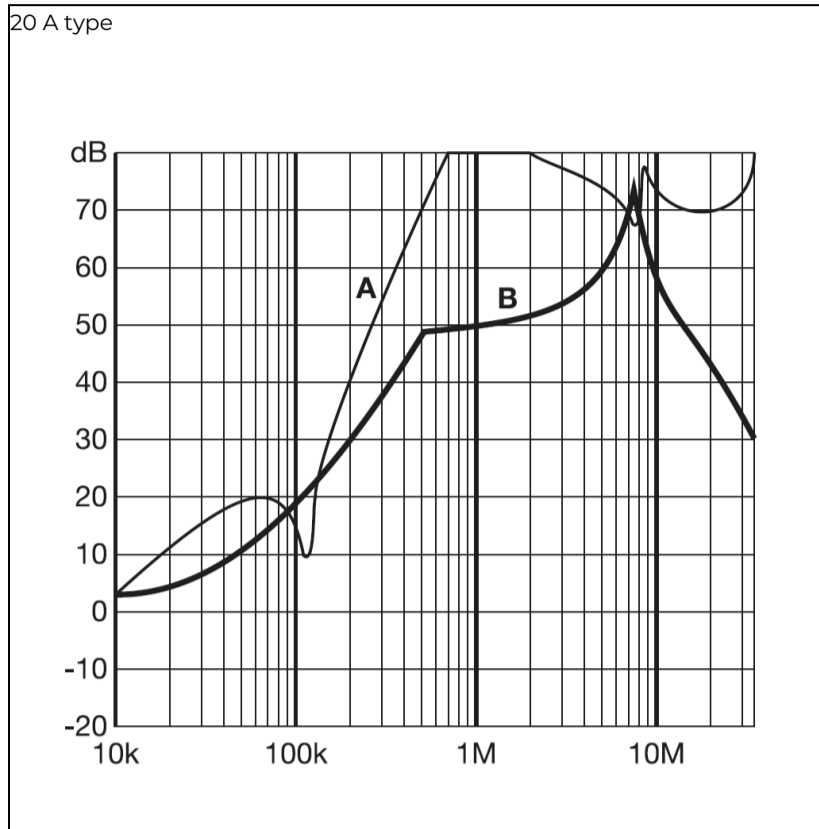
* Maximum leakage current under normal operating conditions (acc. to IEC60939-3).

** Leakage current for delta network grids, with one corner grounded

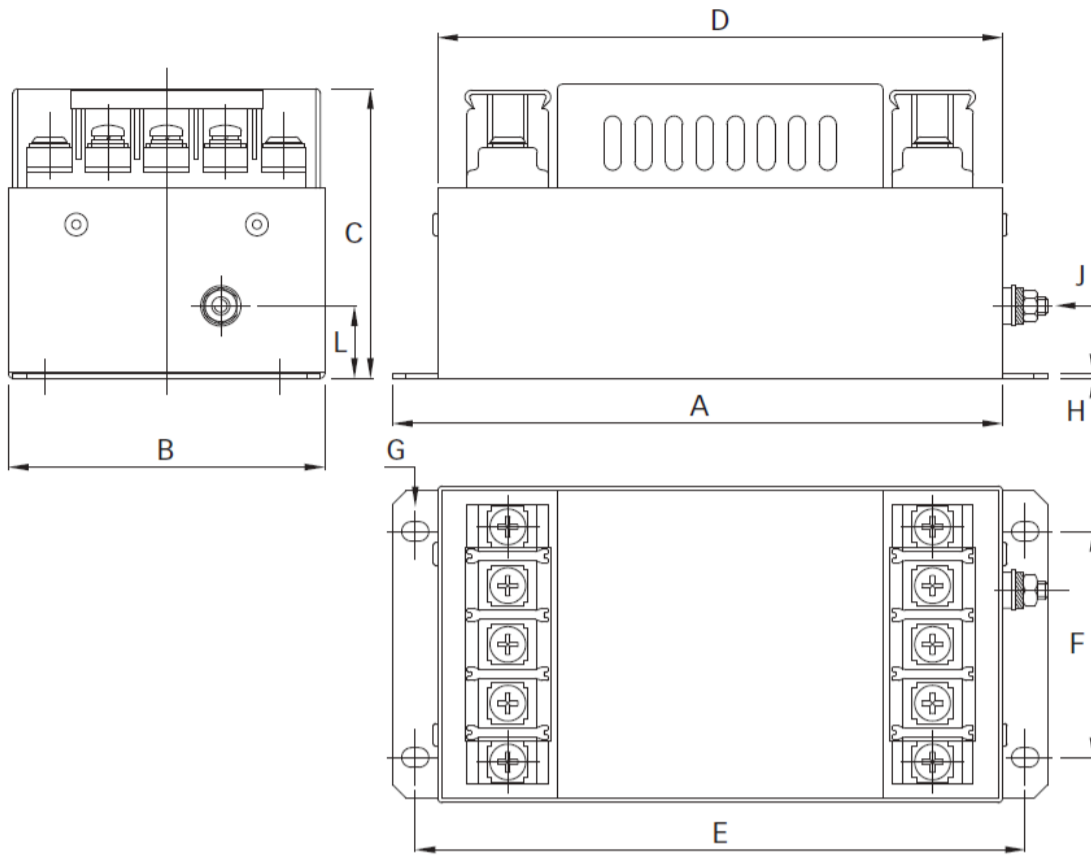
*** Power Loss [W] calculated: $3 \cdot \text{RatedCurrent}^2 \cdot \text{Max.DCRes}$

Typical Filter Attenuation

Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym



Mechanical Data





Dimensions

	20 A	30 A	50 A	75 A
A	145	145	192	214
B	70	74	90	90
C	64	67	85	85
D	125	125	155	177
E	135	135	174	196
F	50	50	70	70
G	6 x 4.3	6 x 4.3	7 x 5.3	7 x 5.3
H	1	1	1	1
J	M4	M4	M6	M6
K	23	25	27	27
L	16	16	18	18

All dimensions in mm; 1 inch = 25.4 mm
Tolerances according: ISO 2768-m/EN 22768-m

Please visit www.schaffner.com to find more details on filter connections.

Filter Input/Output Connector Cross Sections

	-61 (20 A and 30 A)	-62 (50 A and 75 A)
Ring/fork lug (W/d)*	 max. 9 mm/min. Ø4.3 mm	 max. 16mm/min. Ø6.3 mm
Recommended torque	1.2 - 1.4 Nm	6 Nm

*Schaffner recommends the use of insulated and UL-recognized ring lugs or fork lugs of the appropriate size.

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