

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

INTRODUCTION

The Schaffner filters FN3060 3-Phase series are engineered for Semiconductor Manufactured Equipment, Motion & Drives, Robotics & Warehouse Automation, and Industrial Machinery. Designed for 480VAC nominal operation, they support current ratings from 20A to 250A and compliance to IEC and UL standards. Achieve the switching of Y-Capacitor/resistor value using Detachable Earth (DE) terminal. Designed for corner grounded delta networks (e.g. Japanese electric networks) and IT networks. Very low leakage current values make the filters suitable for grids with very tough requirements or sensitive CFCLs, and for application which set value on safety and reliability.



APPLICATIONS

- Semiconductor Manufactured Equipment
- Motion & Drives
- Robotics & Warehouse Automation
- Industrial Machinery

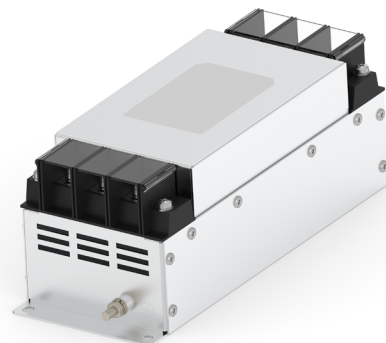
FEATURES AND BENEFITS

- Compact and effective EMI mitigation
- Terminal Block compatible with ring terminal
- Achieve the switching of Y-Capacitor and resistor value using Detachable Earth Terminal (DE).



APPROVALS

- IEC 60939-3
- UL 60939-3
- Product Compliances:
Low voltage directive 2014/35/EU
The Electrical Equipment (Safety) Regulations S.I. 2016/1101
- RoHS 2011/65/EU, 2015/863/EU
- ENEC up to 80A



Technical data of approved types on request

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

ELECTRICAL CHARACTERISTICS

FN3060L

Current Ratings @ 50°C amb. Temperature	20 A	30 A	50 A	80 A	100 A	150 A	200 A	250 A
Nominal Operating Voltage	480 +/- 10% VAC							
Rated Operating Voltage	520/300 VAC 50/60Hz							
Leakage Current (IEC 60939-3) @ rated voltage and 50Hz	4 mA			4.46 mA				
Leakage Current (IEC60939-3) @ rated voltage and 50Hz if DE switch off	0.16mA @ rated voltage and 50Hz if DE switch off							
Production Line Test Voltage	2.25 kVDC* for 2 s (P to E)							
	2.24 kVDC* for 2 s (P to P)							
Overvoltage Category (IEC 60664-1)	III							
Max. DC Resistance @ 25 C	10.5 mΩ	7 mΩ	3.1 mΩ	2 mΩ	0.9 mΩ	0.8 mΩ	0.9 mΩ	0.8 mΩ
Net Weight:	2.2 kg	2.2 kg	4 kg	5 kg	6.9 kg	8 kg	14.5 kg	16.5 kg
Operating Ambient Temp. Range	-25 °C to +100 °C							

FN3060M

Current Ratings @ 50°C amb. Temperature	20 A	30 A	50 A	80 A	100 A	150 A	200 A	250 A
Nominal Operating Voltage	480 +/- 10% VAC							
Rated Operating Voltage	520/300 VAC 50/60Hz							
Leakage Current (IEC 60939-3) @Rated voltage and 50Hz	4.08 mA			4.56 mA			4.62 mA	
Leakage Current (IEC60939-3) @ rated voltage and 50Hz if DE switch off	0.3mA @ rated voltage and 50Hz if DE switch off							
Production Line Test Voltage	2.25 kVDC* for 2 s (P to E)							
	2.24 kVDC* for 2 s (P to P)							
Overvoltage Category (IEC 60664-1)	III							
Max. DC Resistance @ 25 C	10.5 mΩ	7 mΩ	3.1 mΩ	2 mΩ	0.9 mΩ	0.8 mΩ	0.9 mΩ	0.8 mΩ
Net Weight	2.2 kg	2.2 kg	4 kg	5 kg	6.7 kg	7.7 kg	14.5 kg	16.5 kg
Operating Ambient Temp. Range	-25 °C to +100 °C							

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SCHAFFNER FN3060 3-PHASE FILTER SERIES

FN3060M-1

Current Ratings @ 50°C amb. Temperature	30 A	50 A
Nominal Operating Voltage	480 +/- 10% VAC	
Rated Operating Voltage	520/300 VAC 50/60Hz	
Leakage Current (IEC 60939-3) @ rated voltage and 50Hz	0.3 mA	
Leakage Current (Japan) @ rated voltage and 50Hz	14.8mA	
Production Line Test Voltage	2.8 kVDC* for 2 s (P to E)	
	2.2 kVDC* for 2 s (P to P)	
Overvoltage Category (IEC 60664-1)	III	
Max. DC Resistance @ 25 C	6 mΩ	3.5 mΩ
Net Weight	1.3 kg	2.1 kg
Operating Ambient Temp. Range	-25 °C to +100 °C	

Current Ratings @ 50°C amb. Temperature	80 A
Nominal Operating Voltage	480 +/- 10% VAC
Rated Operating Voltage	520/300 VAC 50/60Hz
Leakage Current (IEC 60939-3) @ rated voltage and 50Hz	3.99 mA
Leakage Current (IEC60939-3) @ rated voltage and 50Hz	0.17 mA
Production Line Test Voltage	2.8 kVDC* for 2 s (P to E)
	2.2 kVDC* for 2 s (P to P)
Overvoltage Category (IEC 60664-1)	III
Max. DC Resistance @ 25 C	1.55 mΩ
Net Weight	5.2 kg
Operating Ambient Temp. Range	-25 °C to +100 °C

FN3060N

Current Ratings @ 50°C amb. Temperature	20 A	30 A	50 A	80 A	100 A	150 A	200 A	250 A
Nominal Operating Voltage	480 +/- 10% VAC							
Rated Operating Voltage	520/300 VAC 50/60Hz							
Leakage Current (IEC 60939-3) @ rated voltage and 50Hz	4.18 mA			4.66 mA			4.74 mA	
Leakage Current (IEC 60939-3) @ rated voltage and 50Hz if DE switch off	0.44mA			0.45 mA			0.57 mA	
Production Line Test Voltage	2.25 kVDC* for 2 s (P to E)							
	2.24 kVDC* for 2 s (P to P)							
Overvoltage Category (IEC 60664-1)	III							
Max. DC Resistance @ 25 C	10.5 mΩ	7 mΩ	3.1 mΩ	2 mΩ	0.9 mΩ	0.8 mΩ	0.9 mΩ	0.8 mΩ
Net Weight:	2.2 kg	2.2 kg	4 kg	5 kg	6.8 kg	8 kg	14.5 kg	16.5 kg
Operating Ambient Temp. Range	-25 °C to +100 °C							

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

ENVIRONMENTAL CHARACTERISTICS

Current Ratings @ 50°C amb. Temperature	20 A	30 A	50 A	80 A	100 A	150 A	200 A	250 A
Operating Ambient Temp. Range:	-25 C to +100 C							
	Current is subjected to derating for temperatures above the rated current temperature							
Cooling	AN							
Climatic Class	25/100/21							

* Current is subjected to derating for temperatures above the rated current temperature point

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

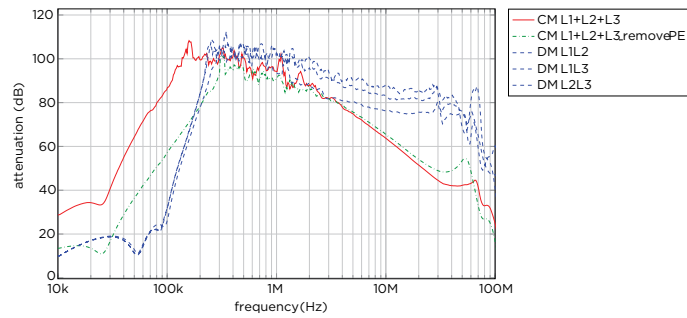
SCHAFFNER FN3060 3-PHASE FILTER SERIES

TYPICAL INSERTION LOSS

FN3060L

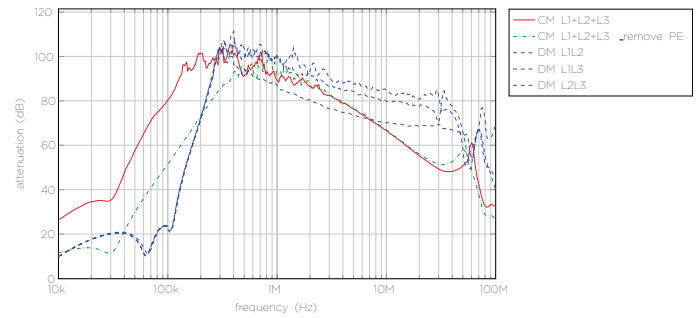
20 A

Per CISPR 17 (50/50)



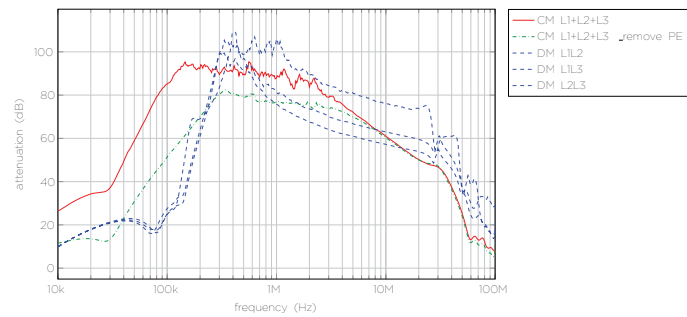
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Per CISPR 17 (50/50)



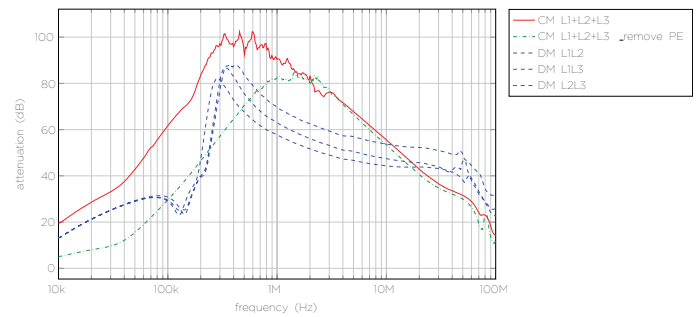
50 A

Per CISPR 17 (50/50)



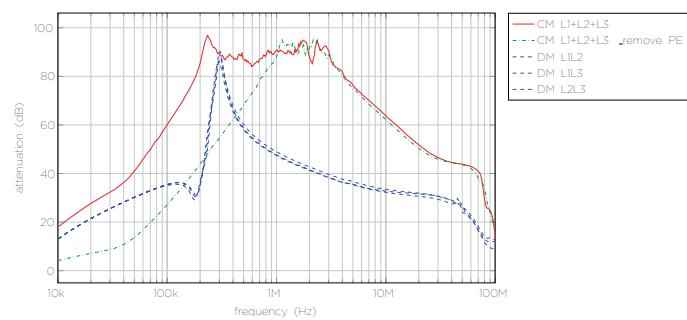
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Per CISPR 17 (50/50)



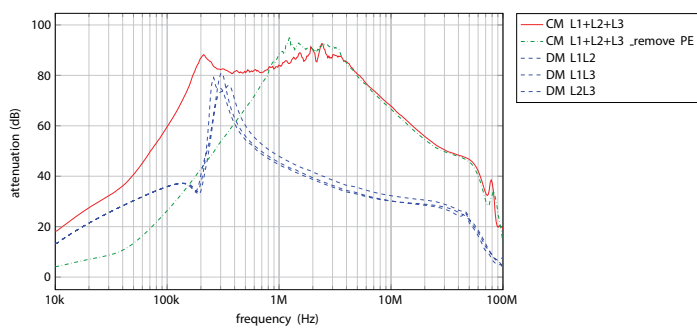
100 A

Per CISPR 17 (50/50)



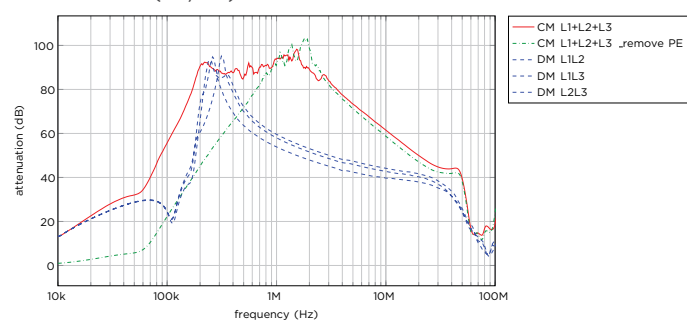
150 A

Per CISPR 17 (50/50)



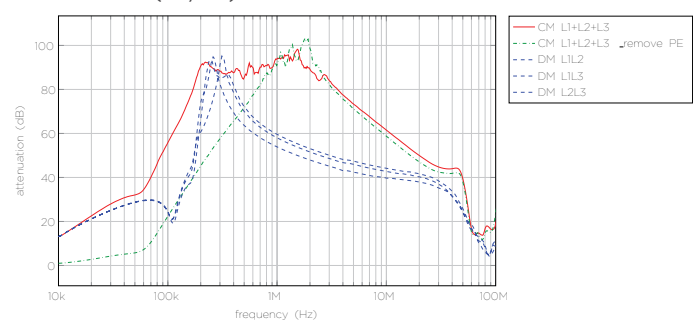
200 A

Per CISPR 17 (50/50)



250 A

Per CISPR 17 (50/50)



EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

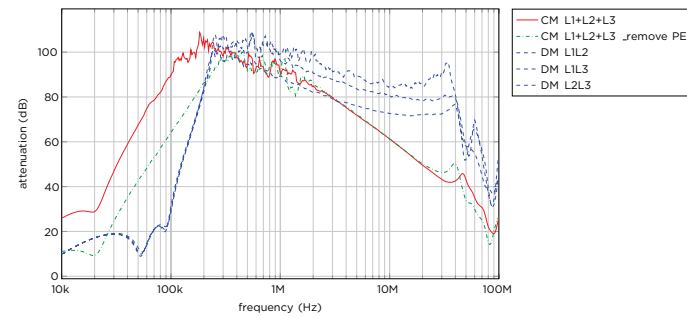
SCHAFFNER FN3060 3-PHASE FILTER SERIES

TYPICAL INSERTION LOSS

FN3060M

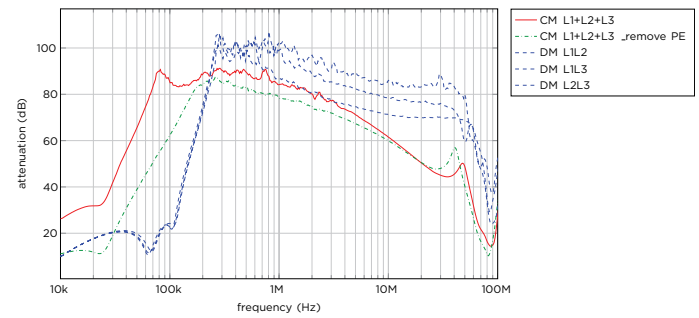
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Per CISPR 17 (50/50)



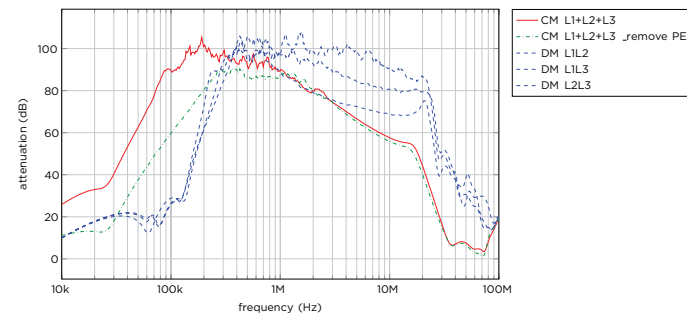
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Per CISPR 17 (50/50)



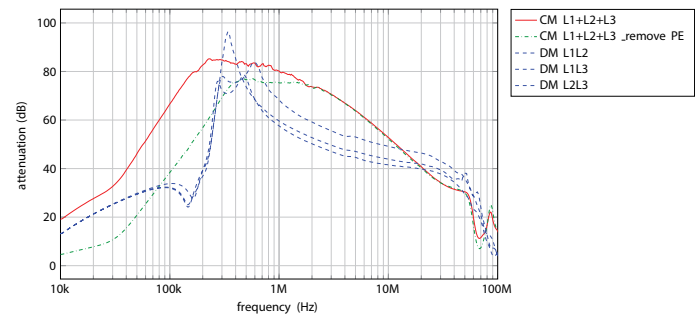
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Per CISPR 17 (50/50)



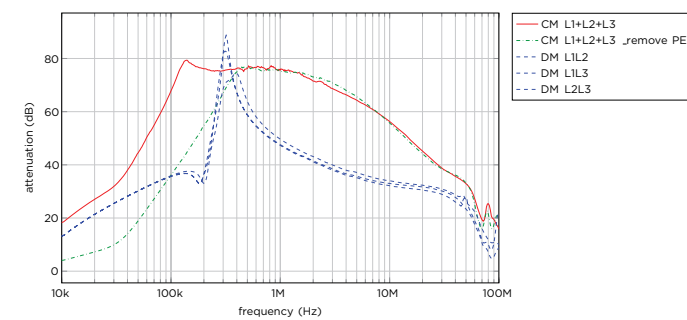
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Per CISPR 17 (50/50)



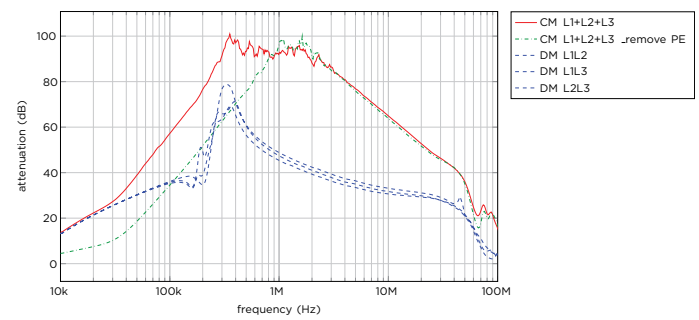
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Per CISPR 17 (50/50)



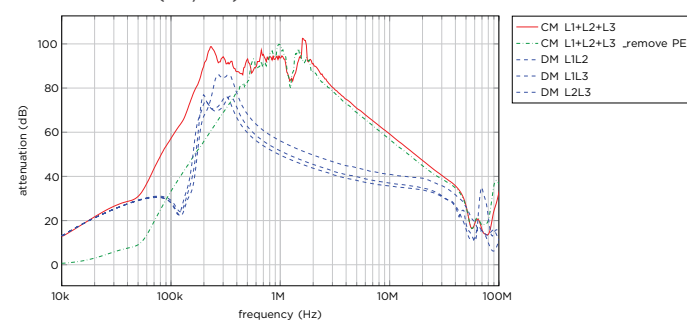
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Per CISPR 17 (50/50)



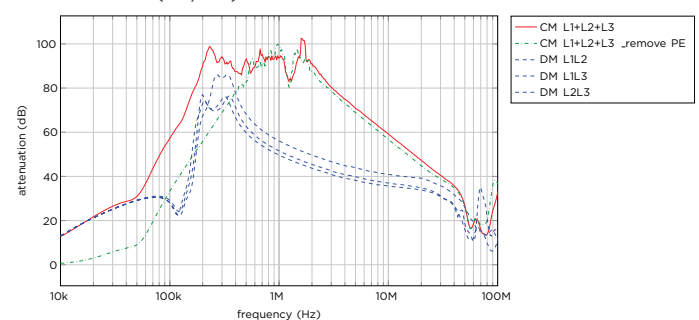
200 A

Per CISPR 17 (50/50)



250 A

Per CISPR 17 (50/50)



EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

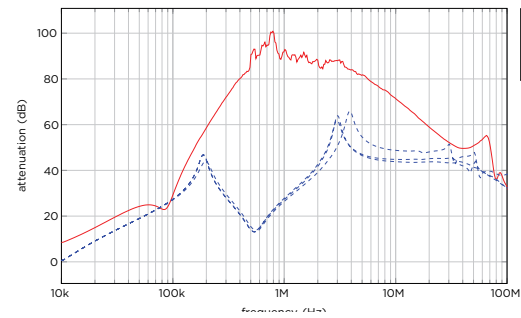
SCHAFFNER FN3060 3-PHASE FILTER SERIES

TYPICAL INSERTION LOSS

FN3060M-1

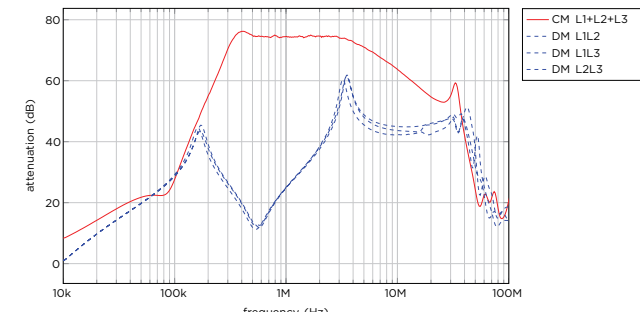
30 A

Per CISPR 17 (50/50)



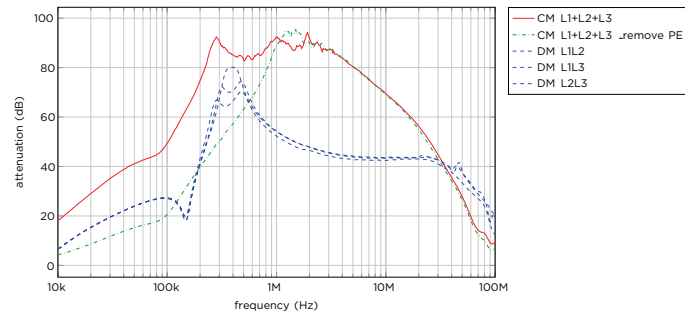
50 A

Per CISPR 17 (50/50)



80 A

Per CISPR 17 (50/50)



EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

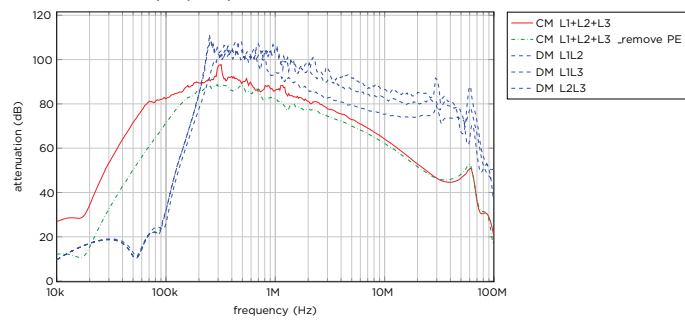
SCHAFFNER FN3060 3-PHASE FILTER SERIES

TYPICAL INSERTION LOSS

FN3060N

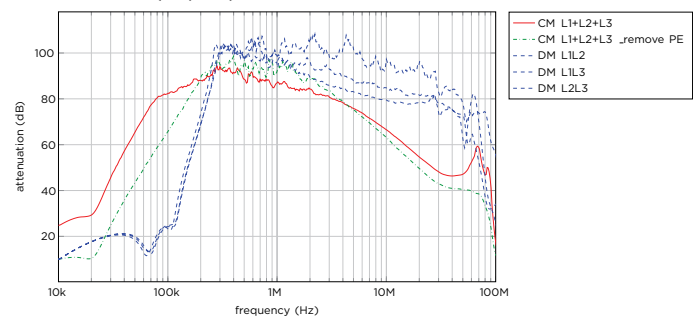
20 A

Per CISPR 17 (50/50)



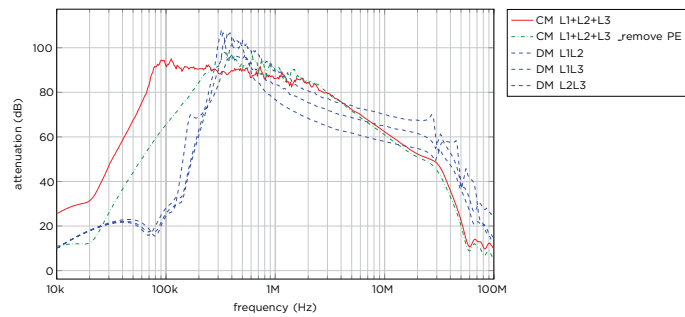
30 A

Per CISPR 17 (50/50)



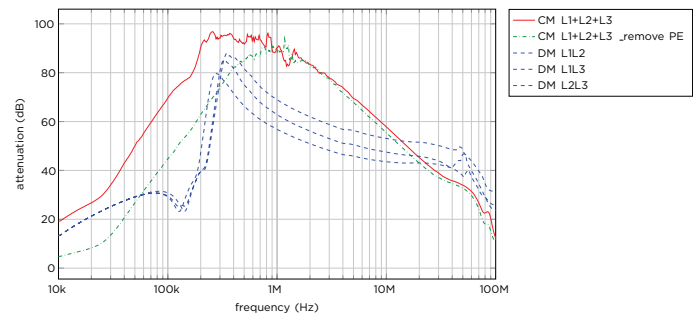
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Per CISPR 17 (50/50)



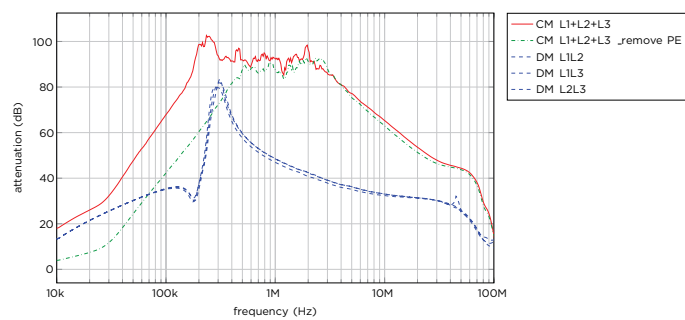
80 A

Per CISPR 17 (50/50)



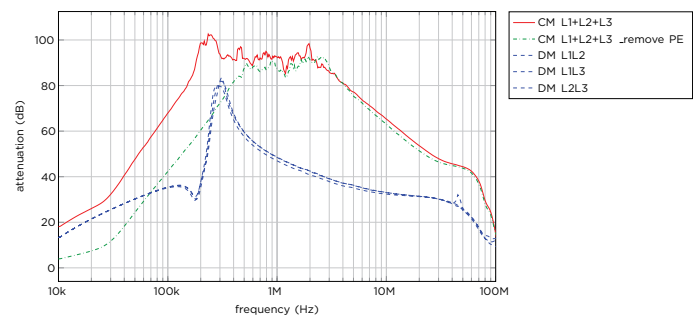
100 A

Per CISPR 17 (50/50)



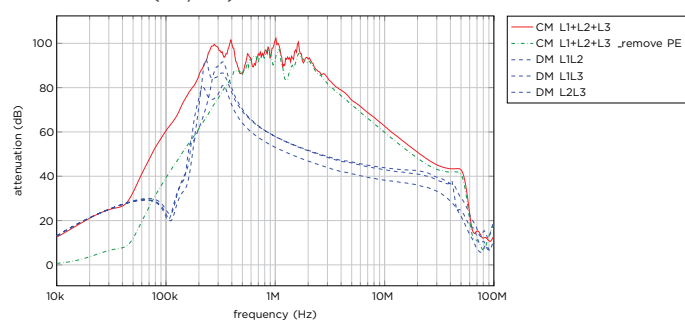
150 A

Per CISPR 17 (50/50)



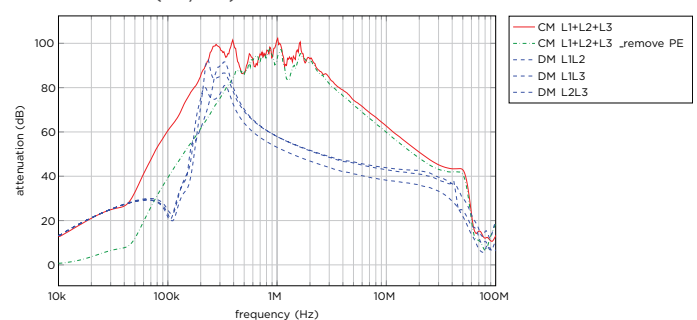
200 A

Per CISPR 17 (50/50)



250 A

Per CISPR 17 (50/50)

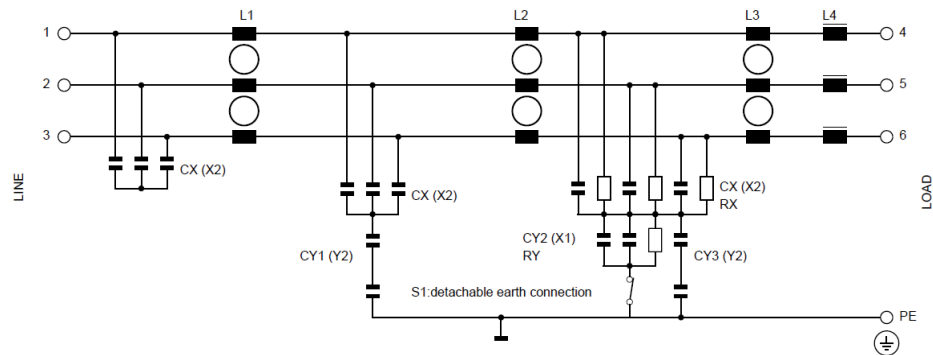


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SCHAFFNER FN3060 3-PHASE FILTER SERIES

LINE DIAGRAM

SCHEMATIC TYPE A

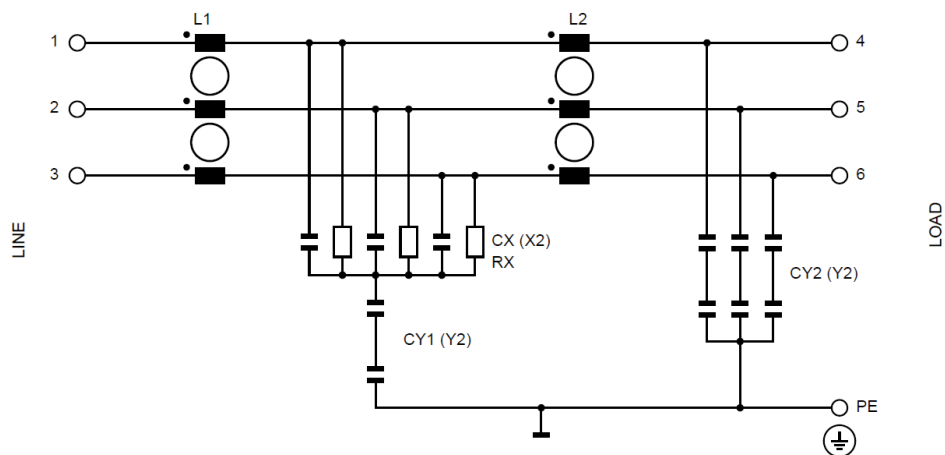


Filter	SAP	Cx _{line} [uF]	CY1 [nF]	CY2 [uF]	CY3 [nF]	RX [MΩ]	RY [kΩ]
FN3060L-20-99	824538	9×2.2	2×68	2×1.5	2×100	3×1	680
FN3060L-30-99	824539	9×2.2	2×68	2×1.5	2×100	3×1	680
FN3060L-50-62	824540	9×2.2	2×68	2×1.5	2×100	3×1	680
FN3060L-80-62	824541	9×3.3	2×68	2×1.5	2×100	3×1	680
FN3060L-100-99	824542	9×3.3	2×68	2×1.5	2×100	3×1	680
FN3060L-150-99	824543	9×3.3	2×68	2×1.5	2×100	3×1	680
FN3060L-200-99	824544	9×3.3	2×68	2×1.5	2×100	3×1	680
FN3060L-250-99	824545	9×3.3	2×68	2×1.5	2×100	3×1	680
FN3060M-20-99	824546	9×2.2	2×100	2×1.5	2×220	3×1	680
FN3060M-30-99	824547	9×2.2	2×100	2×1.5	2×220	3×1	680
FN3060M-50-62	824548	9×2.2	2×100	2×1.5	2×220	3×1	680
FN3060M-80-62	824549	9×3.3	2×100	2×1.5	2×220	3×1	680
FN3060M-100-99	824550	9×3.3	2×100	2×1.5	2×220	3×1	680
FN3060M-150-99	824551	9×3.3	2×100	2×1.5	2×220	3×1	680
FN3060M-200-99	824552	9×3.3	2×100	2×1.5	2×330	3×1	680
FN3060M-250-99	824553	9×3.3	2×100	2×1.5	2×330	3×1	680
FN3060N-20-99	824557	9×2.2	2×150	2×1.5	2×330	3×1	680
FN3060N-30-99	824558	9×2.2	2×150	2×1.5	2×330	3×1	680
FN3060N-50-62	824559	9×2.2	2×150	2×1.5	2×330	3×1	680
FN3060N-80-62	824560	9×3.3	2×150	2×1.5	2×330	3×1	680
FN3060N-100-99	824561	9×3.3	2×150	2×1.5	2×330	3×1	680
FN3060N-150-99	824562	9×3.3	2×150	2×1.5	2×330	3×1	680
FN3060N-200-99	824563	9×3.3	2×150	2×1.5	2×470	3×1	680
FN3060N-250-99	824564	9×3.3	2×150	2×1.5	2×470	3×1	680

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

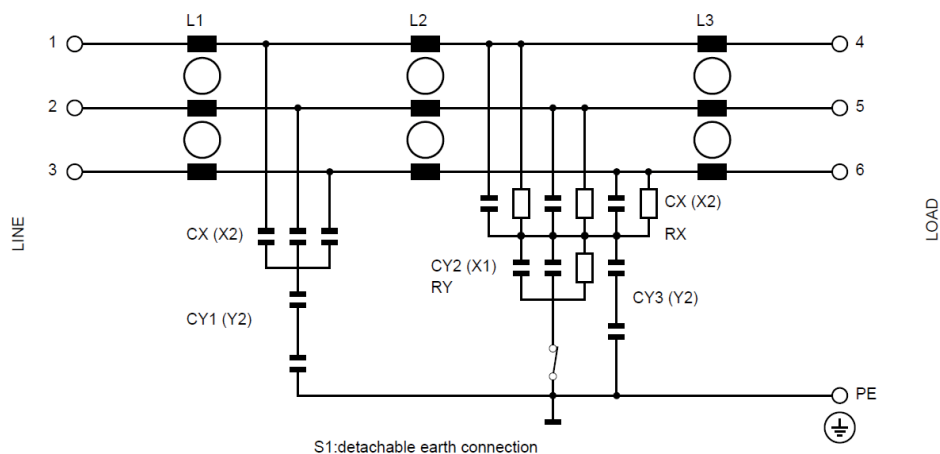
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SCHEMATIC TYPE B



Filter	SAP	$C_{x_{line}}$ [uF]	CY1 [nF]	CY2 [nF]	RX [MΩ]
FN3060M-30-99-1	824554	3×2.2	2×15	6×100	3×1
FN3060M-50-62-1	824555	3×2.2	2×15	6×100	3×1

SCHEMATIC TYPE C



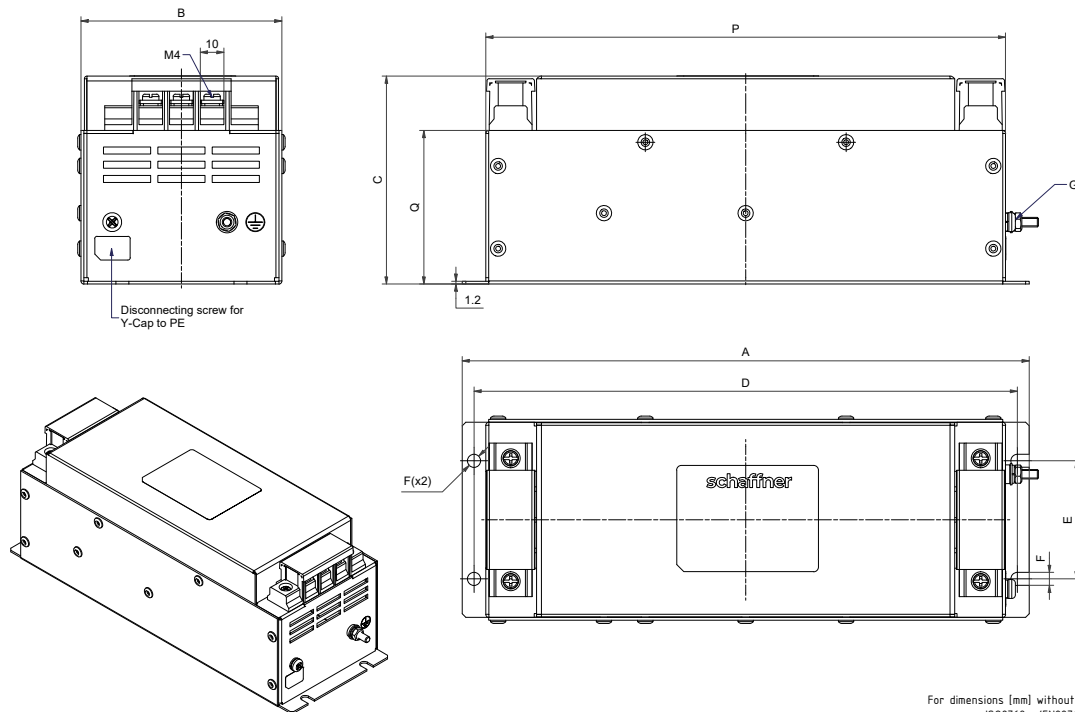
Filter	SAP	$C_{x_{line}}$ [uF]	CY1 [nF]	CY2 [uF]	CY3 [nF]	RX [MΩ]	RY [kΩ]
FN3060M-80-62-1	824556	6×2.2	2×33	2×1.5	2×150	3×1	680

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

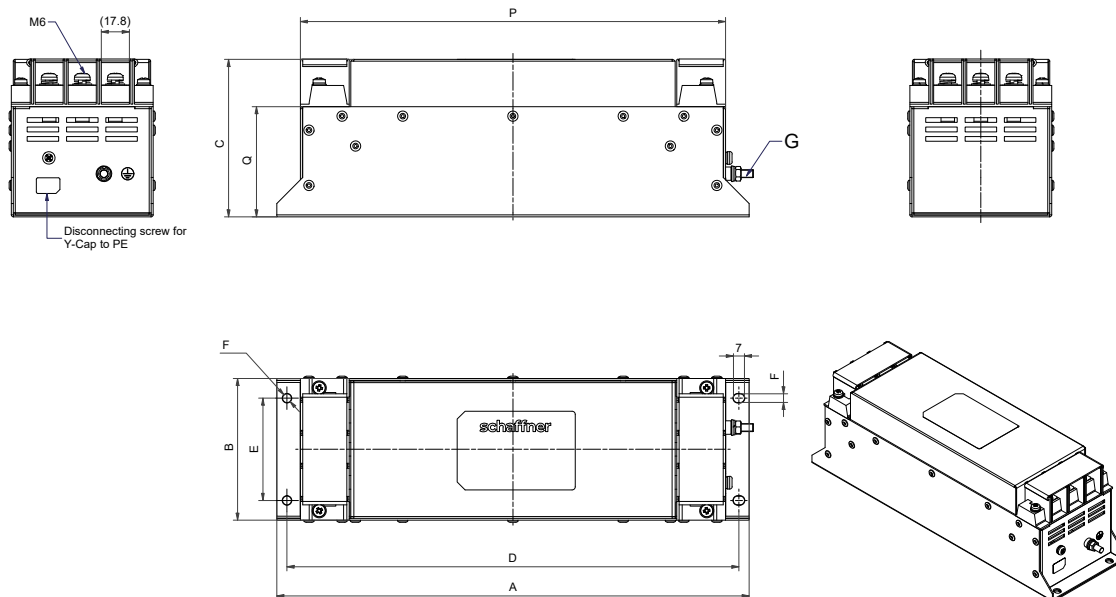
DIMENSIONS (Unit: mm)

FRAME A



For dimensions [mm] without tolerances:
ISO2768-c/EN22768-c applies
100700 A

FRAME B

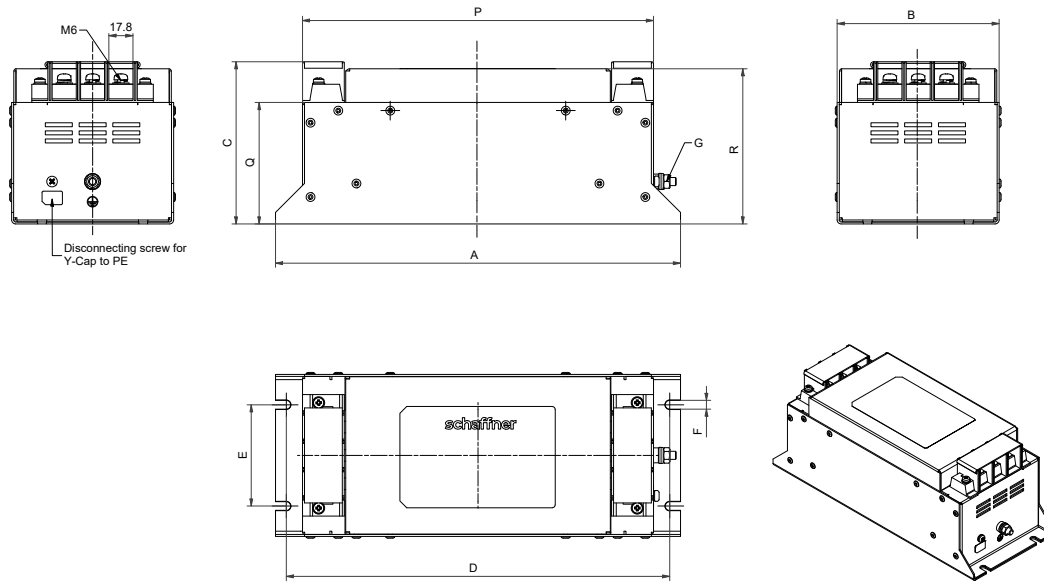


For dimensions [mm] without tolerances:
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100701 A

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

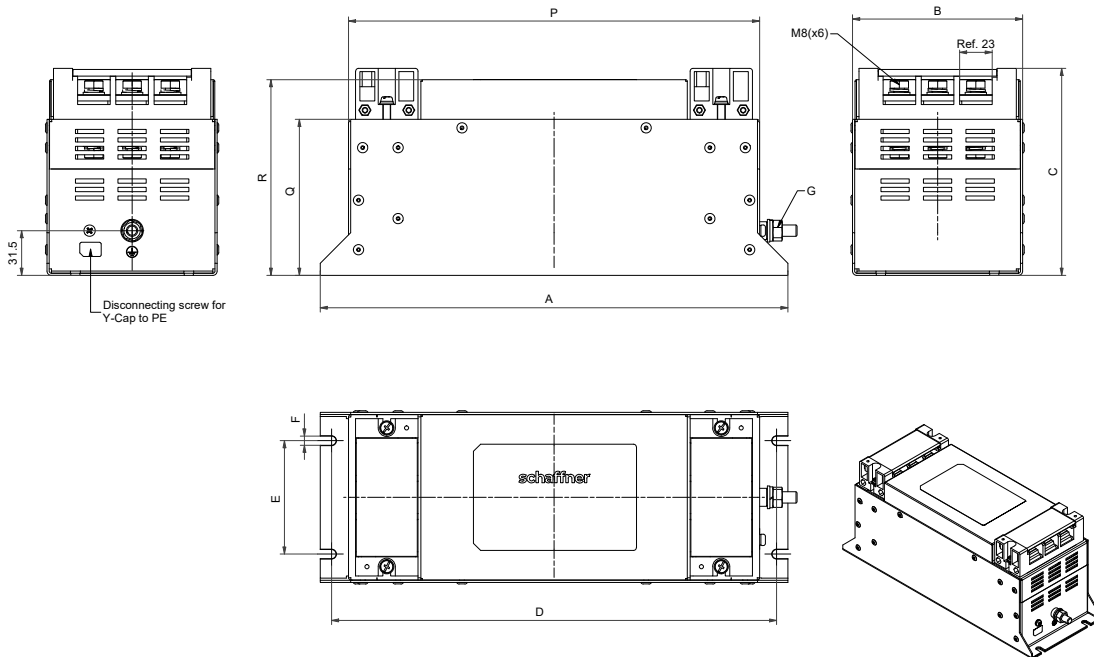
SCHAFFNER FN3060 3-PHASE FILTER SERIES

FRAME C



For dimensions [mm] without tolerances:
ISO2768-c/EN22768-c applies
107792 A

FRAME D

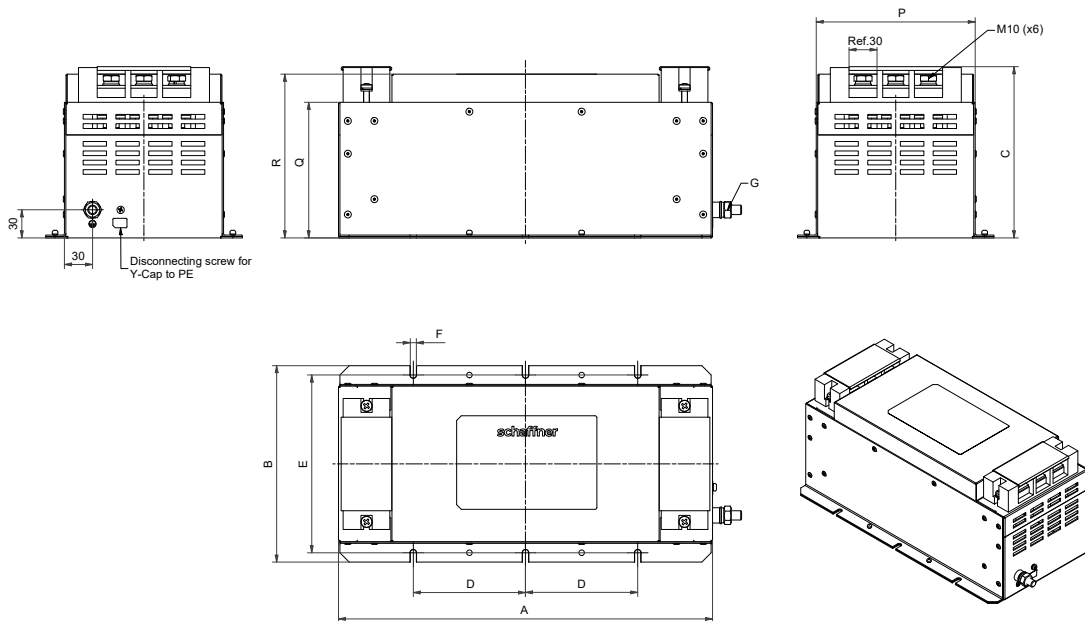


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107793 A

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

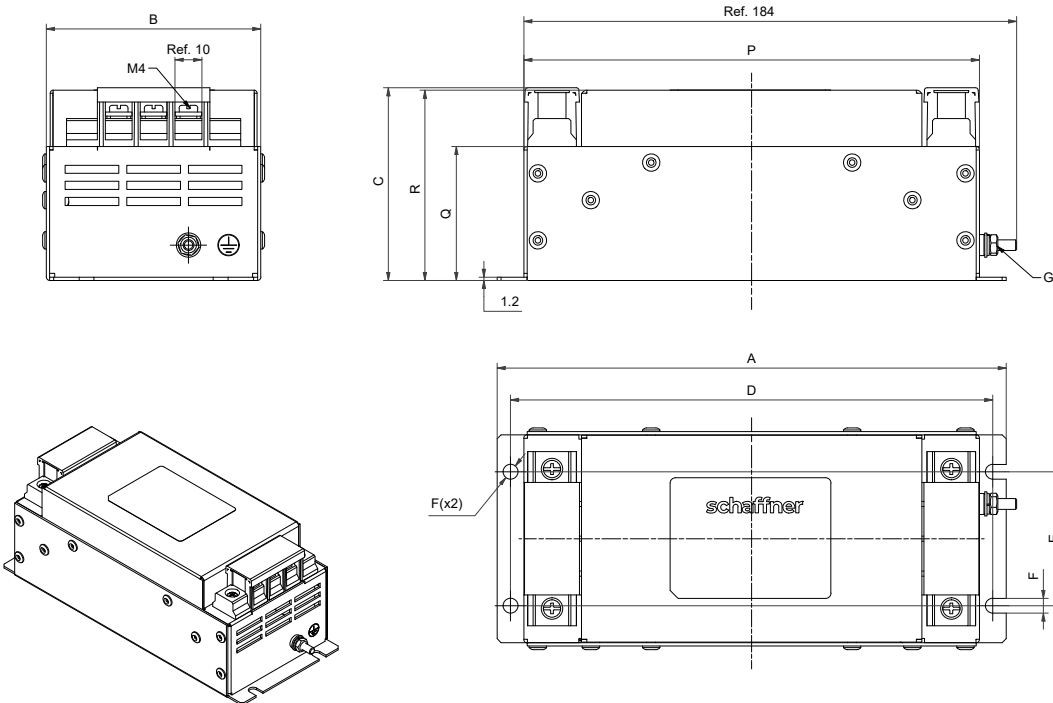
SCHAFFNER FN3060 3-PHASE FILTER SERIES

FRAME E



For dimensions [mm] without tolerances:
ISO2768-c/EN22768-c applies
191775 A

FRAME F

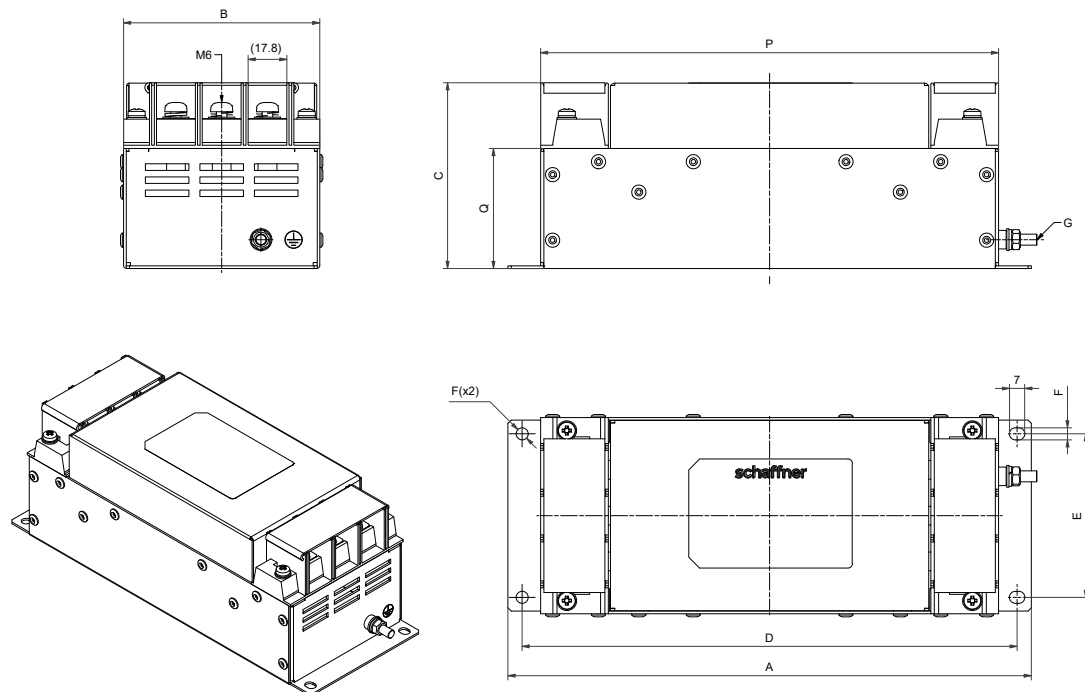


For dimensions [mm] without tolerances:
ISO2768-m/EN22768-m applies
1917831 A

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

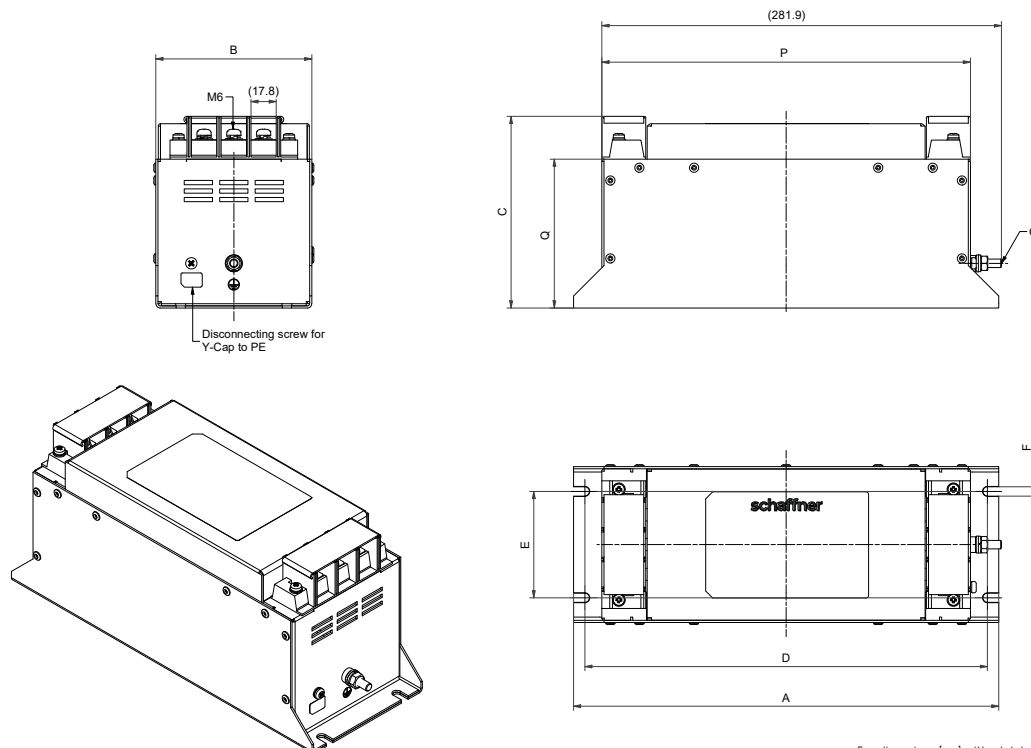
SCHAFFNER FN3060 3-PHASE FILTER SERIES

FRAME G



For dimensions [mm] without tolerances:
ISO2768-m/EN22768-m applies
10/1023 A

FRAME H



For dimensions [mm] without tolerances:
ISO2768-m/EN22768-m applies
10/1023 A

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

MECHANICAL DATA

TYPE	FS	Line Load	YCAP TO PE (Y/N)	A	B	C	D	E	F	G	P	Q	R
FN3060L-20-99	A	M4/1.2N.m*	Y	240	85	88	230	50	5.5	M4	220	65	-
FN3060L-30-99	A	M4/1.2N.m*	Y	240	85	88	230	50	5.5	M4	220	65	-
FN3060L-50-62	B	M6/6.0N.m*	Y	300	90	100	287	65	5.5	M5	270	70	-
FN3060L-80-62	C	M6/6.0N.m*	Y	300	120	120	284	75	6.5	M6	260	90	115
FN3060L-100-99	D	M8/6.2N.m*	Y	330	120	146	314	80	6.5	M8	290	110	138
FN3060L-150-99	D	M8/6.2N.m*	Y	400	120	146	384	80	6.5	M8	360	110	138
FN3060L-200-99	E	M10/10N.m*	Y	400	210	183	120	190	6.5	M10	170	145	175
FN3060L-250-99	E	M10/10N.m*	Y	450	210	193	170	190	6.5	M10	170	155	185
FN3060M-20-99	A	M4/1.2N.m*	Y	240	85	88	230	50	5.5	M4	220	65	-
FN3060M-30-99	A	M4/1.2N.m*	Y	240	85	88	230	50	5.5	M4	220	65	-
FN3060M-50-62	B	M6/6.0N.m*	Y	300	90	100	287	65	5.5	M5	270	70	-
FN3060M-80-62	C	M6/6.0N.m*	Y	300	120	120	284	75	6.5	M6	260	90	115
FN3060M-100-99	D	M8/6.2N.m*	Y	330	120	146	314	80	6.5	M8	290	110	138
FN3060M-150-99	D	M8/6.2N.m*	Y	400	120	146	384	80	6.5	M8	360	110	138
FN3060M-200-99	E	M10/10N.m*	Y	400	210	183	120	190	6.5	M10	170	145	175
FN3060M-250-99	E	M10/10N.m*	Y	450	210	193	170	190	6.5	M10	170	155	185
FN3060M-30-99-1	F	M4/1.2N.m	N	190	80	71.9	180	50	5.5	M4	170	50	71
FN3060M-50-62-1	G	M6/6.0N.m	N	240	90	85.2	227	75	5.5	M5	210	55	-
FN3060M-80-62-1	H	M6/6.0N.m	Y	300	110	135	284	75	6.5	M6	260	105	-
FN3060N-20-99	A	M4/1.2N.m*	Y	240	85	88	230	50	5.5	M4	220	65	-
FN3060N-30-99	A	M4/1.2N.m*	Y	240	85	88	230	50	5.5	M4	220	65	-
FN3060N-50-62	B	M6/6.0N.m*	Y	300	90	100	287	65	5.5	M5	270	70	-
FN3060N-80-62	C	M6/6.0N.m*	Y	300	120	120	284	75	6.5	M6	260	90	115
FN3060N-100-99	D	M8/6.2N.m*	Y	330	120	146	314	80	6.5	M8	290	110	138
FN3060N-150-99	D	M8/6.2N.m*	Y	400	120	146	384	80	6.5	M8	360	110	138
FN3060N-200-99	E	M10/10N.m*	Y	400	210	183	120	190	6.5	M10	170	145	175
FN3060N-250-99	E	M10/10N.m*	Y	450	210	193	170	190	6.5	M10	170	155	185

*(only ring and fork cable shoes are allowed to be used)

** **For dimensions [mm]

EARTH SCREW

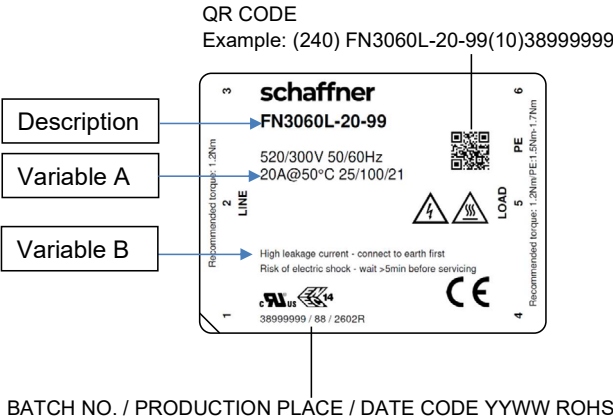
Size	Torque [Nm]
M4	1.5-1.7
M5	2.0-2.2
M6	3.5-4.0
M8	8.0-9.0
M10	15-17

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

PRODUCT LABEL

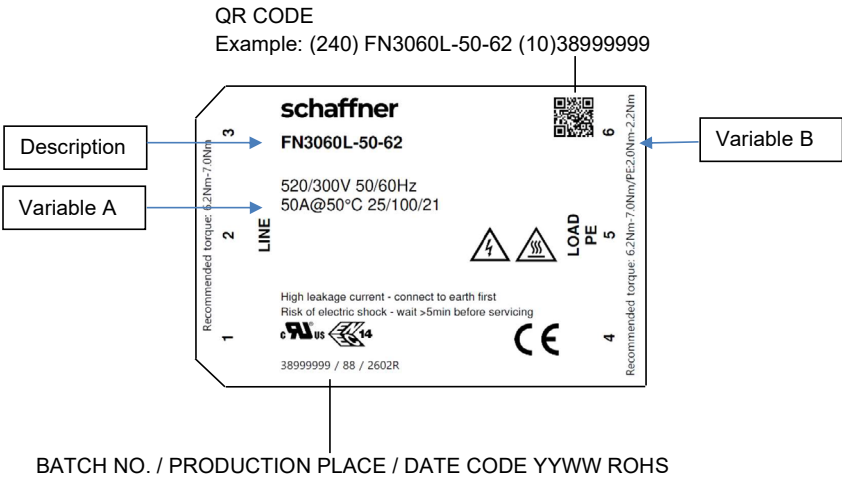
20A / 30A



P/N	Description	Variable A	Variable B
824538-SF	FN3060L-20-99	20A	X
824539-SF	FN3060L-30-99	30A	X
824546-SF	FN3060M-20-99	20A	X
824547-SF	FN3060M-30-99	30A	X
824554-SF	FN3060M-30-99-1	30A	
824557-SF	FN3060N-20-99	20A	X
824558-SF	FN3060N-30-99	30A	X

Note: Production place
05 for Thailand
88 for China

50A / 80A



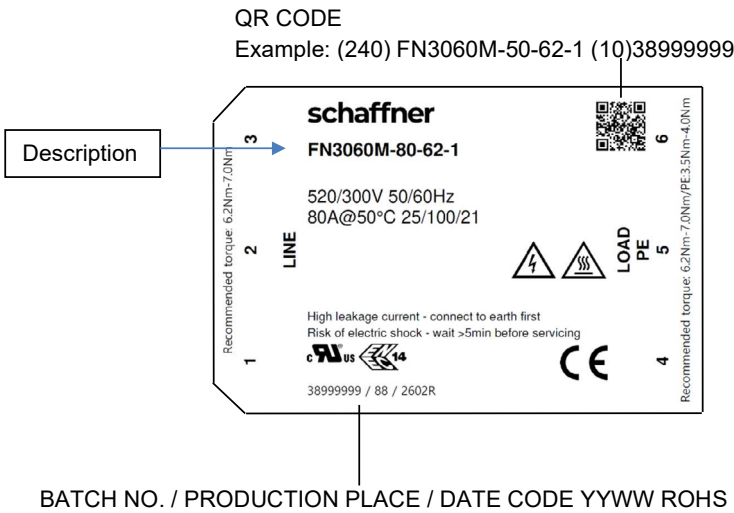
P/N	Description	Variable A	Variable B
824540-SF	FN3060L-50-62	50A	PE: 2.0Nm-2.2Nm
824541-SF	FN3060L-80-62	80A	PE: 3.5Nm-4.0Nm
824548-SF	FN3060M-50-62	50A	PE: 2.0Nm-2.2Nm
824549-SF	FN3060M-80-62	80A	PE: 3.5Nm-4.0Nm
824556-SF	FN3060M-80-62-1	80A	PE: 3.5Nm-4.0Nm
824559-SF	FN3060N-50-62	50A	PE: 2.0Nm-2.2Nm
824560-SF	FN3060N-80-62	80A	PE: 3.5Nm-4.0Nm

Note: Production place
05 for Thailand
88 for China

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

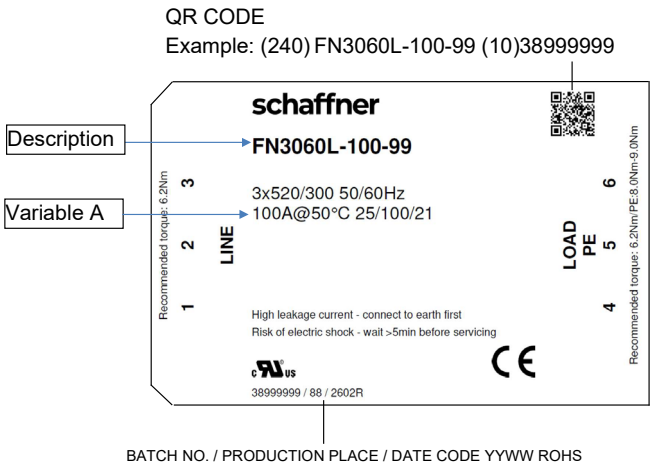
50A



P/N	Description
824555-SF	FN3060M-50-62-1

Note: Production place
05 for Thailand
88 for China

100A / 150A



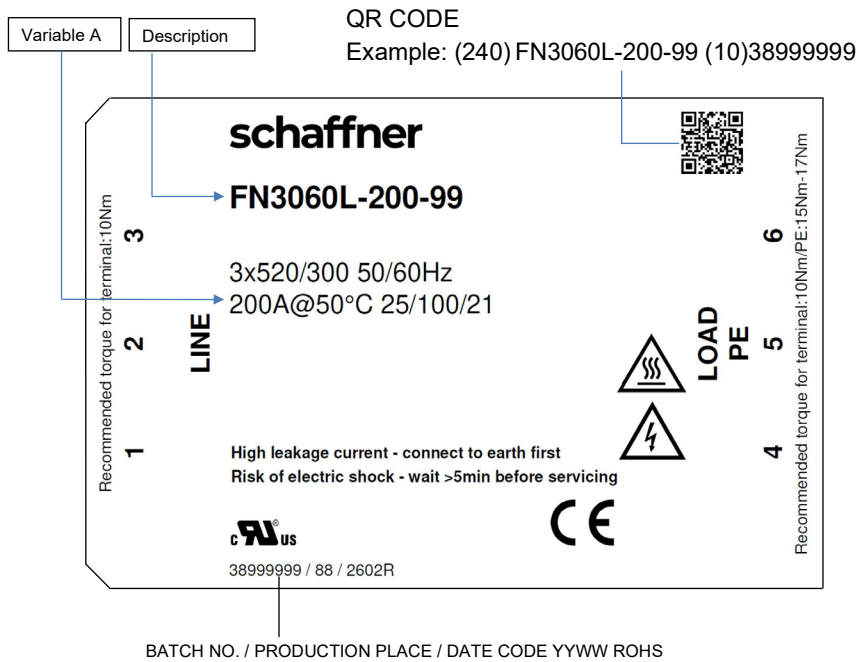
P/N	Description	Variable A
824542-SF	FN3060L-100-99	100A
824543-SF	FN3060L-150-99	150A
824550-SF	FN3060M-100-99	100A
824551-SF	FN3060M-150-99	150A
824561-SF	FN3060N-100-99	100A
824562-SF	FN3060N-150-99	150A

Note: Production place
05 for Thailand
88 for China

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

200A / 250A

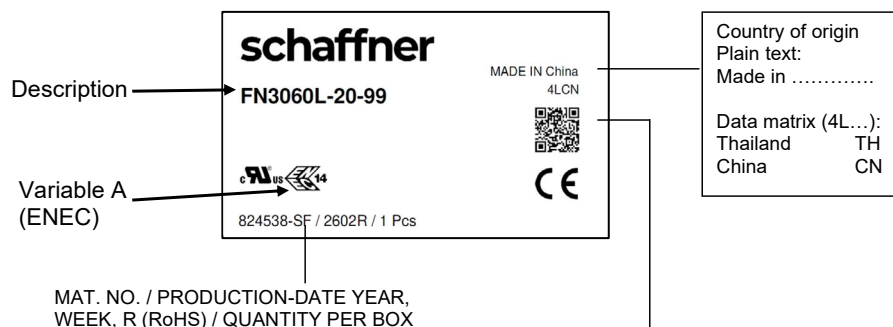


P/N	Description	Variable A
824544-SF	FN3060L-200-99	200A
824545-SF	FN3060L-250-99	250A
824552-SF	FN3060M-200-99	200A
824553-SF	FN3060M-250-99	250A
824563-SF	FN3060N-200-99	200A
824564-SF	FN3060N-250-99	250A

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

PACKING BOX LABEL



Mat.No.	Description	Variable A(ENEC)
824538-SF	FN3060L-20-99	X
824539-SF	FN3060L-30-99	X
824540-SF	FN3060L-50-62	X
824541-SF	FN3060L-80-62	X
824542-SF	FN3060L-100-99	
824543-SF	FN3060L-150-99	
824544-SF	FN3060L-200-99	
824545-SF	FN3060L-250-99	
824546-SF	FN3060M-20-99	X
824547-SF	FN3060M-30-99	X
824548-SF	FN3060M-50-62	X
824549-SF	FN3060M-80-62	X
824550-SF	FN3060M-100-99	
824551-SF	FN3060M-150-99	
824552-SF	FN3060M-200-99	
824553-SF	FN3060M-250-99	
824554-SF	FN3060M-30-99-1	X
824555-SF	FN3060M-50-62-1	X
824556-SF	FN3060M-80-62-1	X
824557-SF	FN3060N-20-99	X
824558-SF	FN3060N-30-99	X
824559-SF	FN3060N-50-62	X
824560-SF	FN3060N-80-62	X
824561-SF	FN3060N-100-99	
824562-SF	FN3060N-150-99	
824563-SF	FN3060N-200-99	
824564-SF	FN3060N-250-99	

QR CODE

(240) Additional product identification assigned by the manufacturer
(241) Customer part number
(11) Production date
(30) Variable count of items

TORQUE LABEL

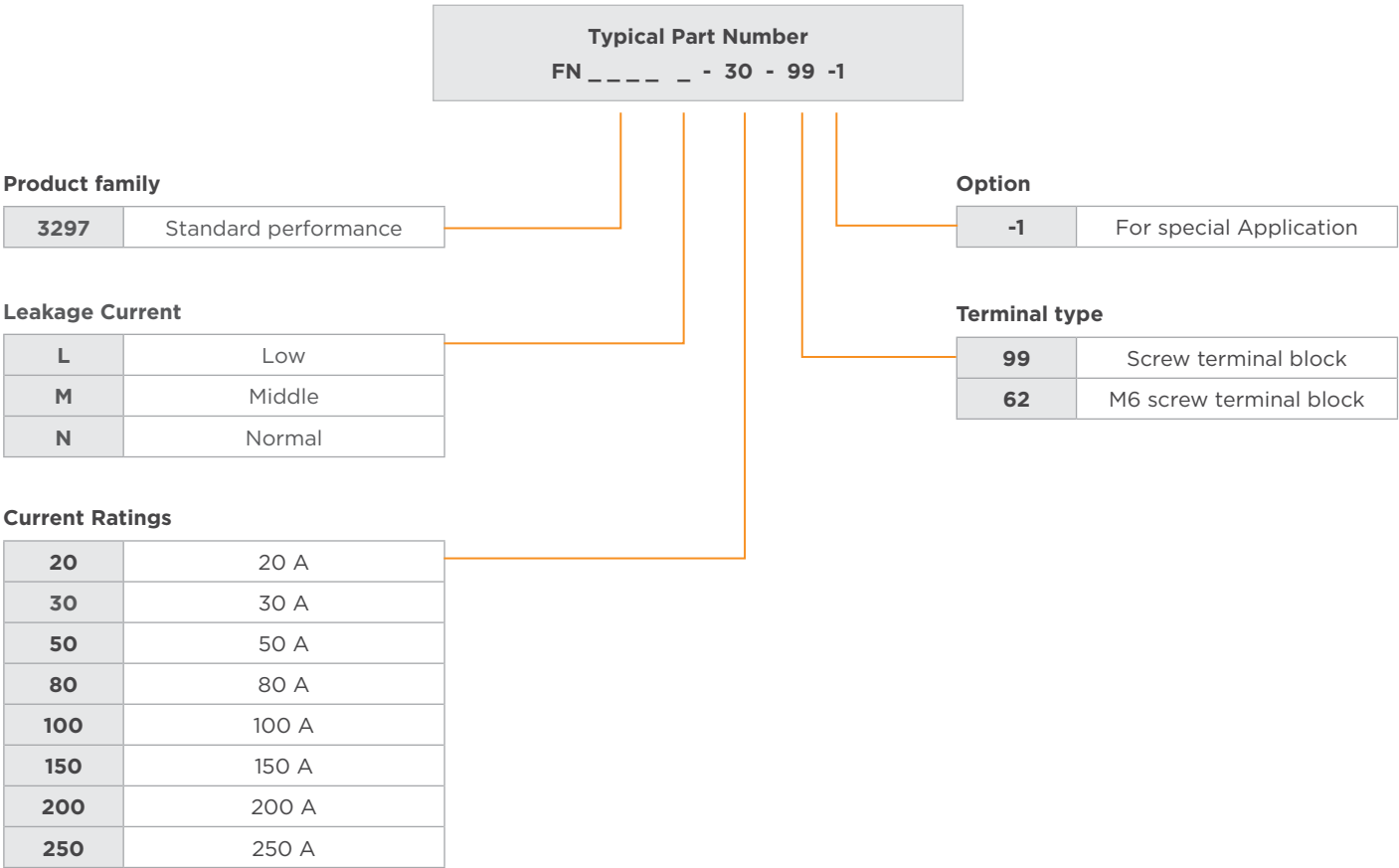
LABEL: 201200-SF
SIZE: 23.5X20mm
FILE: 1066713

**Detachable
EMC Earth
connection
Torque:
1.1Nm-1.3Nm**

EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

PRODUCT CODE STRUCTURE



EMI FILTER FOR POWER ELECTRONICS AND CONVERTERS

SCHAFFNER FN3060 3-PHASE FILTER SERIES

PRODUCT SELECTION INFORMATION

S.No	TE Description	TE Part Number
1	FN3060L-20-99	824538-SF
2	FN3060L-30-99	824539-SF
3	FN3060L-50-62	824540-SF
4	FN3060L-80-62	824541-SF
5	FN3060L-100-99	824542-SF
6	FN3060L-150-99	824543-SF
7	FN3060L-200-99	824544-SF
8	FN3060L-250-99	824545-SF
9	FN3060M-20-99	824546-SF
10	FN3060M-30-99	824547-SF
11	FN3060M-50-62	824548-SF
12	FN3060M-80-62	824549-SF
13	FN3060M-100-99	824550-SF
14	FN3060M-150-99	824551-SF
15	FN3060M-200-99	824552-SF
16	FN3060M-250-99	824553-SF
17	FN3060M-30-99-1	824554-SF
18	FN3060M-50-62-1	824555-SF
19	FN3060M-80-62-1	824556-SF
20	FN3060N-20-99	824557-SF
21	FN3060N-30-99	824558-SF
22	FN3060N-50-62	824559-SF
23	FN3060N-80-62	824560-SF
24	FN3060N-100-99	824561-SF
25	FN3060N-150-99	824562-SF
26	FN3060N-200-99	824563-SF
27	FN3060N-250-99	824564-SF

DISCLAIMER

1. Product suitability for a given application must ultimately be determined by the user (the party that is putting the product into operation) on a case by case basis. Product functionality and suitability must be determined with proper verification within the final application. Neither Schaffner nor its subsidiaries will assume liability for any consequential downtimes or damages resulting from use of products outside their specifications or due to incomplete verification in application.

2. Do not attempt to install, operate, maintain or inspect any product until you have read and understood the related safety notes and installation guidelines delivered with the product. If not available, general safety and installation notes are available on Schaffner Website: www.schaffner.com.

Non-qualified persons are not allowed to install or maintain Schaffner products!

3. The user is responsible to observe compliance with all local installation and electrical regulations.

4. All products must have their safety earth connected using properly dimensioned connectors. It is recommended to avoid chaining safety earth of multiple equipment together.

5. Warnings, cautions and notes as displayed on the product label must be observed at all times.

6. Overcurrent or overvoltage applied to products or resulting from an improper setup (i.e. resonances) may cause substantial damages, represent a fire hazards and lead to body injury or death.

7. Unless specifically indicated in datasheet, products do not contain any protection components. Suitable overcurrent and overvoltage protection circuits must be placed upstream of the product to avoid any consequential damage in case of any system malfunction.

8. Products with capacitive elements can have significant amount of stored energy. If misused or mishandled it could lead to body harm, damage and eventually fire hazard.

9. Products have limited lifetime and are subject to ageing effects heavily depending on operating conditions and environment. Schaffner recommends to regularly check any inbuilt capacitance to ensure constant performance and considering replacement after 12 years from initial commissioning unless otherwise indicated. Even when properly operated as in specifications, it is not possible to rule out single malfunctioning or failures of components happening before the usual lifetime.

User is responsible to evaluate the environment in the application and eventually perform preventive maintenance before the above recommendation. User shall also evaluate risk of possible failures and implement proper containment actions to avoid damage or injury.

10. Schaffner reserves the right to change raw materials used in this product during its life cycle on the companys own discretion, mainly for the purpose of managing and maintaining a capable international supplier base and for ensuring prompt product availability at all times. All changes having no impact on form, fit, function and technical specifications according to company internal evaluation will be carried out without notification.

Stricter change management process can be implemented on request.

We are here to help



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