

Filter selection table

Filter*	Rated current @ 40°C (25°C)	Leakage current** @ 250 VAC/50 Hz (@ 120 VAC/60 Hz)	Inductance*** L	Capacitance***		Resistance*** R	Input/Output connections			Weight [g]
				Cx	Cy					
	[A]	[mA]	[mH]	[µF]	[nF]	[kΩ]				
FN 2020-1-..	1 (1.15)	0.66 (0.38)	12	0.15	4.7	1000	-06	-07		80
FN 2020-3-..	3 (3.45)	0.66 (0.38)	2.5	0.15	4.7	1000	-06	-07		80
FN 2020-6-..	6 (6.9)	0.66 (0.38)	1	0.15	4.7	1000	-06	-07		80
FN 2020-10-..	10 (11.5)	0.66 (0.38)	0.8	0.15	4.7	1000	-06	-07		85
FN 2020-12-..	12 (13.8)	0.66 (0.38)	0.7	0.15	4.7	1000	-06	-07		85
FN 2020-16-..	16 (18.4)	0.66 (0.38)	0.65	0.15	4.7	1000	-06	-07	-08	140
FN 2020-20-..	20 (23)	0.66 (0.38)	0.6	0.15	4.7	1000	-06		-08	210
FN 2020-30-08	30 (34.5)	0.79 (0.45)	0.67	0.47	10	470			-08	470
FN 2020-60-24	60 (69)	0.79 (0.45)	1	1.5	10	220			-24	1100
FN 2020A-1-..	1 (1.15)	0.07 (0.04)	12	0.15	0.47	1000	-06	-07		80
FN 2020A-3-..	3 (3.45)	0.07 (0.04)	2.5	0.15	0.47	1000	-06	-07		80
FN 2020A-6-..	6 (6.9)	0.07 (0.04)	1	0.15	0.47	1000	-06	-07		80
FN 2020A-10-..	10 (11.5)	0.07 (0.04)	0.8	0.15	0.47	1000	-06	-07		85
FN 2020A-12-..	12 (13.8)	0.07 (0.04)	0.7	0.15	0.47	1000	-06	-07		85
FN 2020A-16-..	16 (18.4)	0.07 (0.04)	0.65	0.15	0.47	1000	-06	-07	-08	140
FN 2020A-20-..	20 (23)	0.07 (0.04)	0.6	0.15	0.47	1000	-06		-08	210
FN 2020A-30-08	30 (34.5)	0.07 (0.04)	0.67	0.47	0.47	470			-08	470
FN 2020A-60-24	60 (69)	0.07 (0.04)	1	1.5	0.47	220			-24	1100
FN 2020B-1-..	1 (1.15)	0.00	12	0.15		1000	-06	-07		80
FN 2020B-3-..	3 (3.45)	0.00	2.5	0.15		1000	-06	-07		80
FN 2020B-6-..	6 (6.9)	0.00	1	0.15		1000	-06	-07		80
FN 2020B-10-..	10 (11.5)	0.00	0.8	0.15		1000	-06	-07		85
FN 2020B-12-..	12 (13.8)	0.00	0.7	0.15		1000	-06	-07		85
FN 2020B-16-..	16 (18.4)	0.00	0.65	0.15		1000	-06	-07	-08	140
FN 2020B-20-..	20 (23)	0.00	0.6	0.15		1000	-06		-08	210
FN 2020B-30-08	30 (34.5)	0.00	0.67	0.47		470			-08	470
FN 2020B-60-24	60 (69)	0.00	1	1.5		220			-24	1100

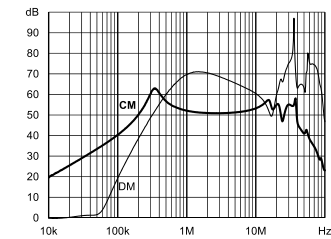
* To compile a complete part number, please replace the -.. with the required I/O connection style (e.g. FN 2020-30-08, FN 2020B-10-06).

** Maximum leakage under usual AC operating conditions (acc. IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

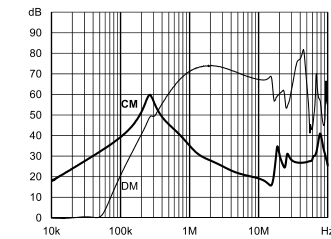
*** Tolerances apply: Inductance: -30/+50%, Capacitance: ±20%, Resistance: ±10%

Typical filter attenuation

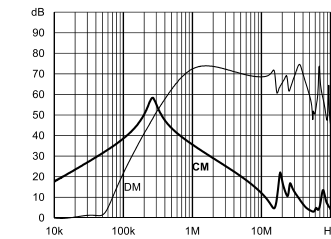
Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym; C=0.1 Ω/100 Ω sym; D=100 Ω/0.1 Ω sym



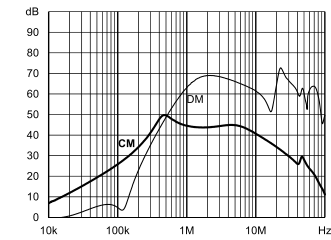
1 A: Standard type



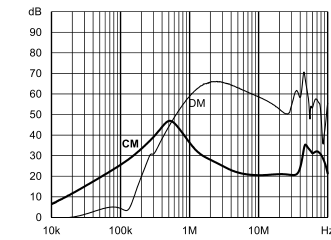
A type



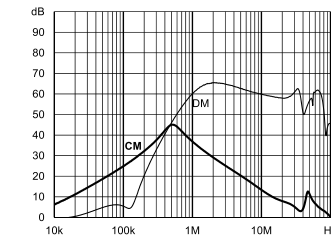
B type



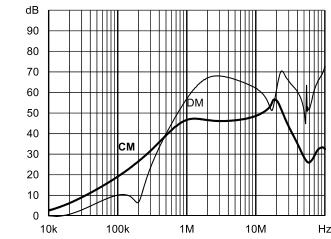
3 A: Standard type



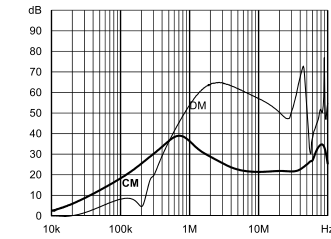
A type



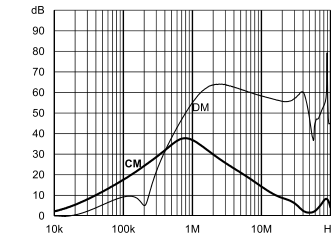
B types



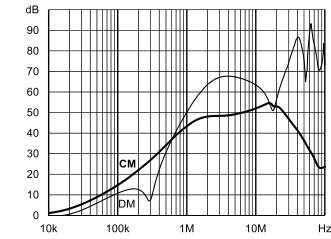
6 A: Standard type



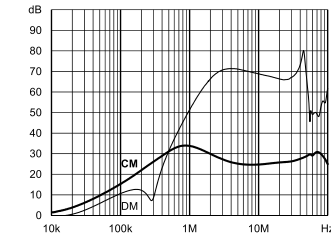
A type



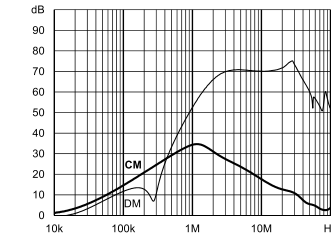
B types



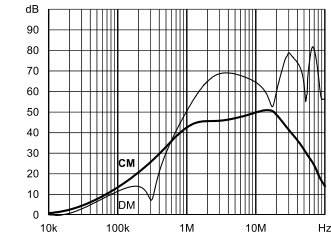
10 A: Standard type



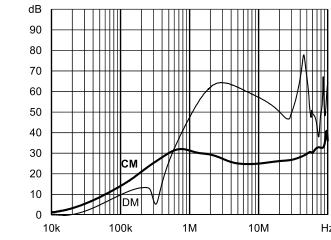
A type



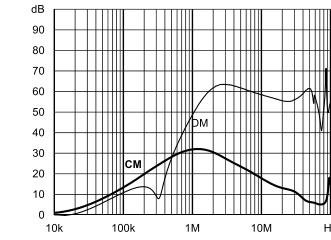
B types



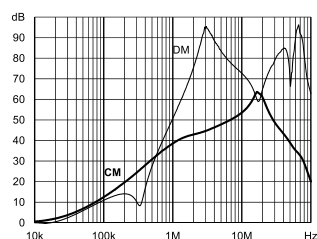
12 A: Standard type



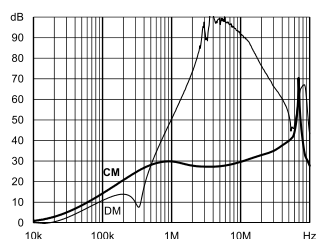
A type



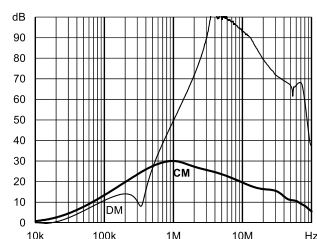
B types



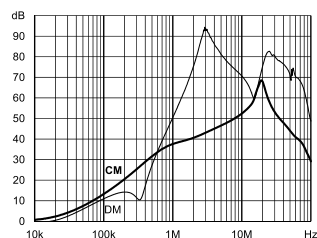
16 A: Standard type



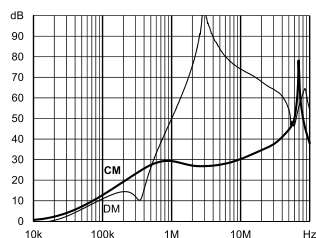
A type



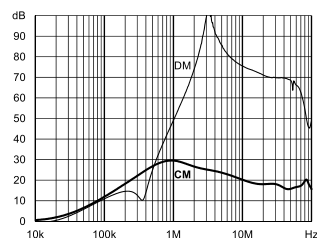
B types



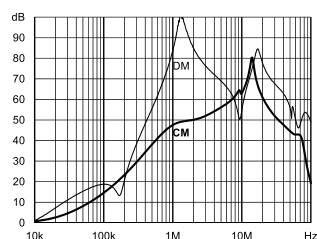
20 A: Standard type



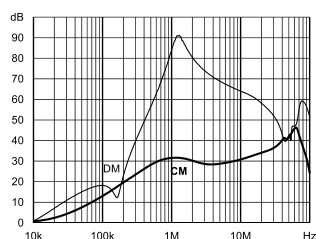
A type



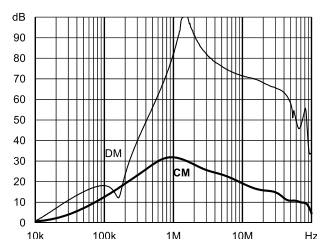
B types



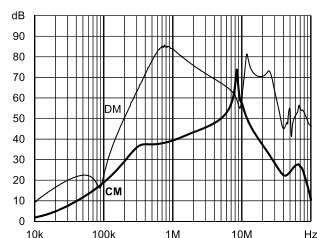
30 A: Standard type



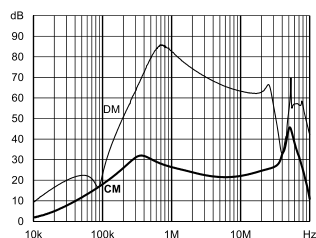
A type



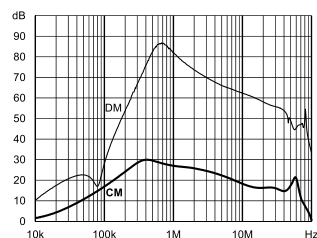
B types



60 A: Standard type

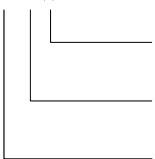


A type



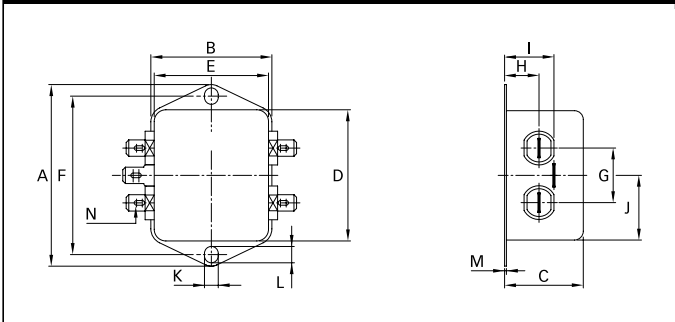
B types

Product selector

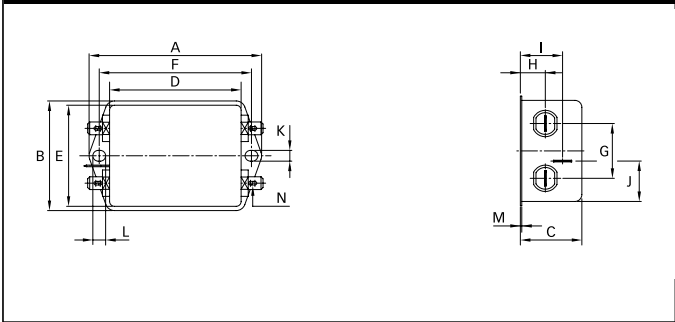
FN 2020 x -xx-yy		
	06	Faston 6.3 × 0.8 mm (spade/soldering)
	07	Wire leads
	08	Studs (M4 screws)
	24	Studs (M6 screws)
	1 to 60	Rated current
	Blank	Standard version
	A	Safety version
	B	Medical version

Mechanical data

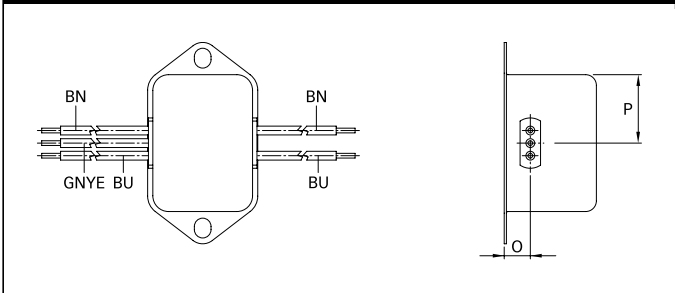
Connection style -06, 1 to 12 A types



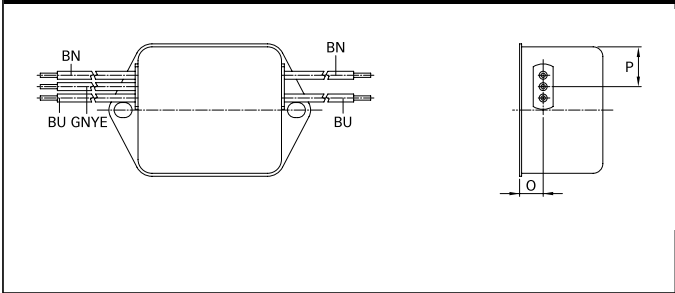
Connection style -06, 16 and 20 A types



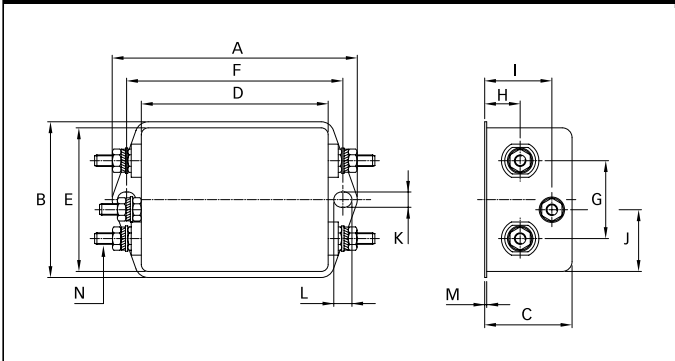
Connection style -07, 1 to 12 A types (same dimensions as style -06)



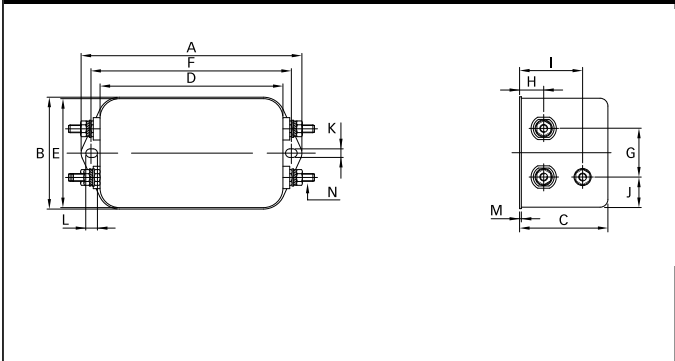
Connection style -07, 16 A types (same dimensions as style -06)



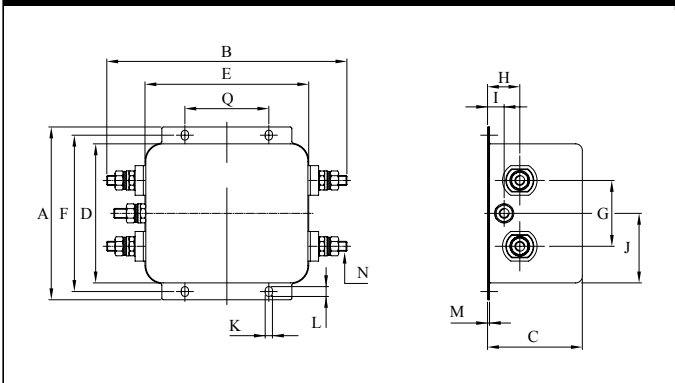
Connection style -08, 16 and 20 A types



Connection style -08, 30 A types



Connection style -24



Dimensions

	1 A	3 A	6 A	10 A	12 A	16 A	20 A	30 A	60 A	Tolerances
A	64	64	64	64	64	71	85	113.5 ±1	105 ±1	±0.5
B	35	35	35	35	35	46.6	54	57.5 ±1	145.9 ±1	±0.5
C	29.3	29.3	29.3	29.3	29.3	29.3	30.3	45.4 ±1	57.6 ±1	±0.5
D	43.5	43.5	43.5	43.5	43.5	50.5	64.8	94 ±1	84.5 ±1	±0.5
E	32.5	32.5	32.5	32.5	32.5	44.5	49.8	56	99.5	±0.5
F	54	54	54	54	54	61	75	103	95	±0.3
G	21	21	21	21	21	21	27	25	40	±0.2
H	9.3	9.3	9.3	9.3	9.3	10.8	12.3	12.4	19.6	±0.5
I	15.3	15.3	15.3	15.3	15.3	19.3	20.8	32.4	10.1	±0.5
J	21.8	21.8	21.8	21.8	21.8	20.1	19.9	15.5	42.25	±0.5
K	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.4	4.4	
L	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6	6	
M	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1.2	±0.3
Connection style -06										
N	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8	6.3 x 0.8			
Connection style -07										
O	8.3	8.3	8.3	8.3	8.3	8.3				±0.5
P	21.8	21.8	21.8	21.8	21.8	14				±0.5
AWG type wire	AWG 20	AWG 20	AWG 18	AWG 18	AWG 16	AWG 16				
Wire length	140	140	140	140	140	140				+5
Connection style -08										
N						M4	M4	M4		
Recommended torque (Nm)						1.2 - 1.3	1.2 - 1.3	1.2 - 1.3		
Earth Terminal						1.5 - 1.7	1.5 - 1.7	1.5 - 1.7		
Connection style -24										
N									M6	
Q									51	±0.2
Recommended torque (Nm)									3.5 - 4	
Earth Terminal									3.5 - 4	

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.



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