









































Filter Selection Table

Filter*	Buy	Rated current @ 40°C (25°C)	Leakage current** @ 250 VAC/50 Hz (@ 120 VAC/60 Hz)	Power Loss @25°C/DC	Inductance*** L	Capacitance***		Resistance*** R	Input/Output connections			Weight	
						Cx	Cy		R	connections			
										[μF]	[nF]		[kΩ]
		[A]	[mA]	[W]	[mH]							[g]	
FN2030-1-..		1 (1.1)	0.31 (0.18)	0.9	20	0.22	2.2	1000	-06	-07		58	
FN2030-3-..		3 (3.4)	0.47 (0.27)	2.2	14	0.33	3.3	1000	-06	-07		87	
FN2030-4-..		4 (4.5)	0.47 (0.27)	2.9	14	0.33	3.3	1000	-06	-07		92	
FN2030-6-..		6 (6.7)	0.66 (0.38)	3.2	8	0.47	4.7	680	-06	-07		100	
FN2030-8-..		8 (8.9)	0.66 (0.38)	3.1	8	0.47	4.7	680	-06	-07		170	
FN2030-10-..		10 (11.2)	0.66 (0.38)	5.3	8	0.47	4.7	680	-06	-07		196	
FN2030-12-..		12 (13.4)	0.79 (0.45)	7.6	4	1.0	10	330	-06	-07		215	
FN2030-16-..		16 (17.9)	0.79 (0.45)	6.1	4	1.0	10	330	-06	-07	-08	225	
FN2030-20-..		20 (22.4)	0.79 (0.45)	4.6	4	1.0	10	330	-06		-08	285	
FN2030-30-08		30 (33.5)	0.79 (0.45)	6.0	2	1.0	10	330			-08	326	
Reduced Power loss****													
FN2030R-10-06		10 (11.2)	0.66 (0.38)	5.3	8	0.47	4.7		-06			192	
FN2030R-16-06		16 (17.9)	0.79 (0.45)	6.1	4	1.0	10		-06			223	
FN2030R-20-06		20 (22.4)	0.79 (0.45)	4.6	4	1.0	10		-06			282	
FN2030R-30-08		30 (33.5)	0.79 (0.45)	6.0	2	1.0	10				-08	324	
Safety (0.04mA IIc)													
FN2030A-1-..		1 (1.1)	0.07 (0.04)	0.9	20	0.22	0.47	1000	-06	-07		58	
FN2030A-3-..		3 (3.4)	0.07 (0.04)	2.2	14	0.33	0.47	1000	-06	-07		87	
FN2030A-4-..		4 (4.5)	0.07 (0.04)	2.9	14	0.33	0.47	1000	-06	-07		92	
FN2030A-6-..		6 (6.7)	0.07 (0.04)	3.2	8	0.47	0.47	680	-06	-07		100	
FN2030A-8-..		8 (8.9)	0.07 (0.04)	3.1	8	0.47	0.47	680	-06	-07		170	
FN2030A-10-..		10 (11.2)	0.07 (0.04)	5.3	8	0.47	0.47	680	-06	-07		196	
FN2030A-12-..		12 (13.4)	0.07 (0.04)	7.6	4	1.0	0.47	330	-06	-07		185	
FN2030A-16-..		16 (17.9)	0.07 (0.04)	6.1	4	1.0	0.47	330	-06	-07	-08	225	
FN2030A-20-..		20 (22.4)	0.07 (0.04)	4.6	4	1.0	0.47	330	-06		-08	285	
FN2030A-30-08		30 (33.5)	0.07 (0.04)	6.0	2	1.0	0.47	330			-08	326	
Medical (0mA IIc)													
FN2030B-1-..		1 (1.1)	0.00	0.9	20	0.22		1000	-06	-07		58	
FN2030B-3-..		3 (3.4)	0.00	2.2	14	0.33		1000	-06	-07		87	
FN2030B-4-..		4 (4.5)	0.00	2.9	14	0.33		1000	-06	-07		92	
FN2030B-6-..		6 (6.7)	0.00	3.2	8	0.47		680	-06	-07		100	
FN2030B-8-..		8 (8.9)	0.00	3.1	8	0.47		680	-06	-07		170	
FN2030B-10-..		10 (11.2)	0.00	5.3	8.45	0.47		680	-06	-07		196	
FN2030B-12-..		12 (13.4)	0.00	7.6	4	1.0		330	-06	-07		185	
FN2030B-16-..		16 (17.9)	0.00	6.1	4	1.0		330	-06	-07	-08	225	
FN2030B-20-..		20 (22.4)	0.00	4.6	4	1.0		330	-06		-08	285	
FN2030B-30-08		30 (33.5)	0.00	6.0	2	1.0		330			-08	326	
Enhanced performance													
FN2030N1-1-06		1 (1.1)	5.34 (3.08)	0.9	20	0.22	68	1000	-06			65	
FN2030M-3-06		3 (3.4)	3.69 (2.28)	2.2	14	0.33	47	1000	-06			110	
FN2030M-4-06		4 (4.5)	3.69 (2.28)	2.9	14	0.33	47	1000	-06			110	
FN2030M-6-06		6 (6.7)	3.69 (2.28)	3.2	8	0.47	47	680	-06			120	
FN2030N1-8-06		8 (8.9)	5.34 (3.08)	3.1	8	0.47	68	3680	-06			200	
FN2030N1-10-06		10 (11.2)	5.34 (3.08)	5.3	8	0.47	68	680	-06			200	
FN2030N1-12-06		12 (13.4)	5.34 (3.08)	7.6	4	1.0	68	330	-06			210	
FN2030M-16-..		16 (17.9)	3.69 (2.28)	6.1	4	1.0	47	330	-06		-08	265	
FN2030M-20-..		20 (22.4)	3.69 (2.28)	4.6	4	1.0	47	330	-06		-08	326	
FN2030M-30-08		30 (33.5)	3.69 (2.28)	6.0	2	1.0	47	330			-08	346	

\* To compile a complete part number, please replace the -.. with the required I/O connection style. For surge pulse protection, please add Z (e.g. FN 2030Z-10-06, FN 2030BZ-20-08).

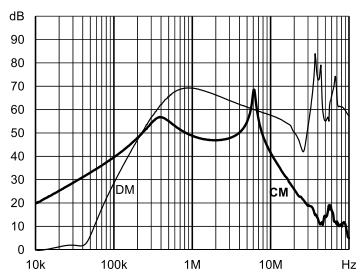
\*\* Maximum leakage under usual AC operating conditions (acc. IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

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

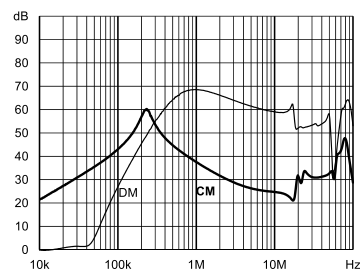
\*\*\*\* Reduced power loss in operation due to removed discharge resistors on capacitors

## Typical Filter Attenuation

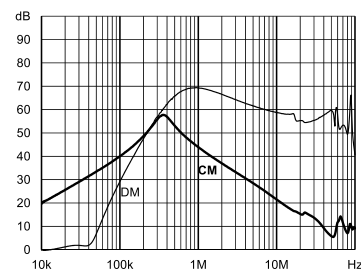
Per CISPR 17: symmetrical 50  $\Omega$ /50  $\Omega$  -> Differential Mode (DM); asymmetrical 50  $\Omega$ /50  $\Omega$  -> Common Mode (CM)



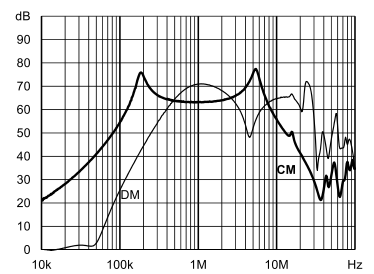
1 A: Standard type



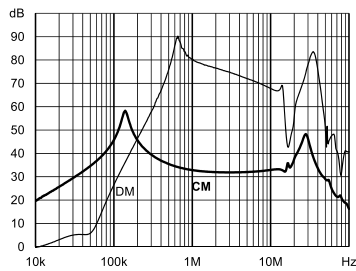
A type



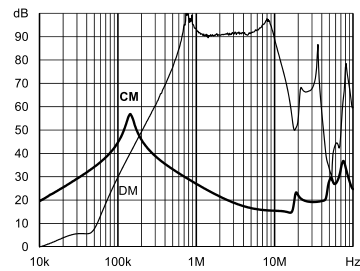
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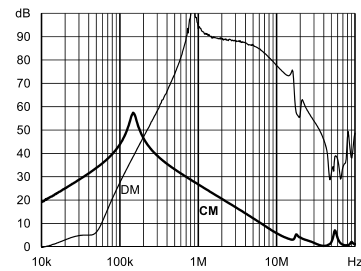
### Enhanced performance



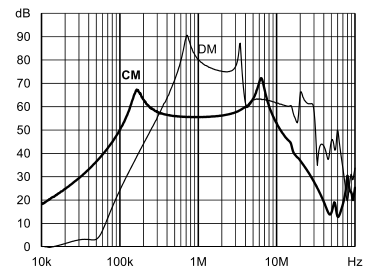
### 3 A: Standard type



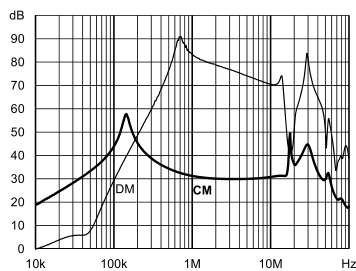
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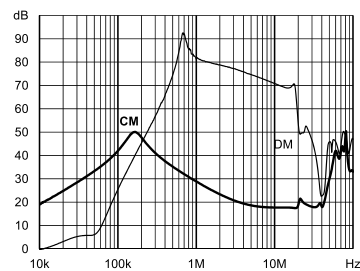
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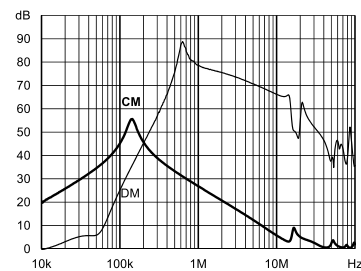
### Enhanced performance



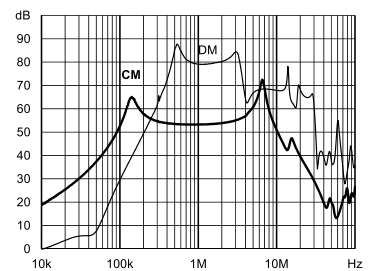
4 A: Standard type



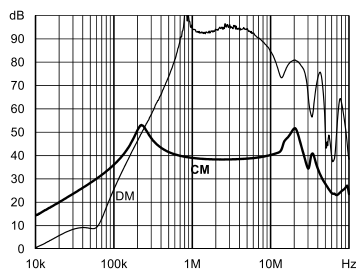
A type



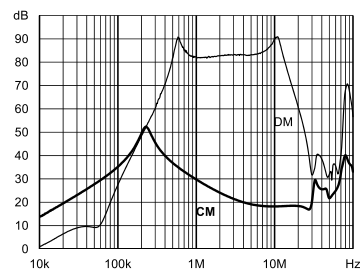
B type



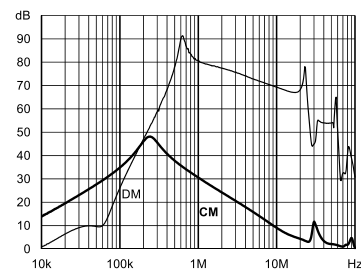
### Enhanced performance



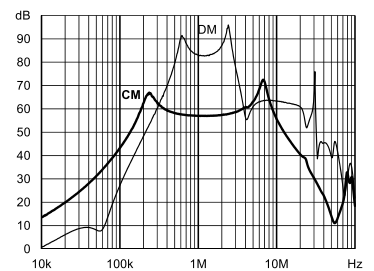
6 A: Standard type



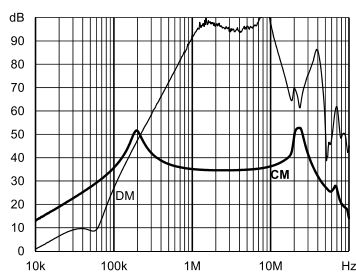
A type



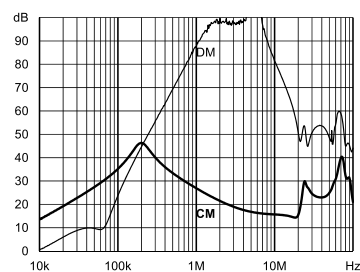
B type



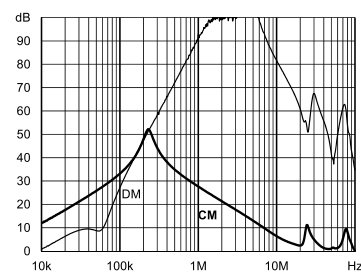
### Enhanced performance



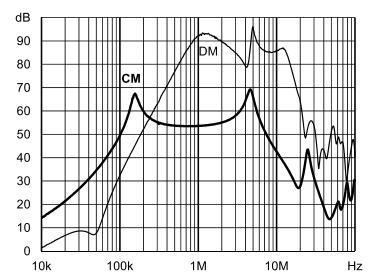
8 A: Standard type



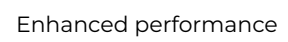
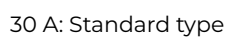
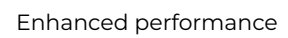
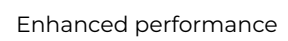
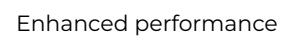
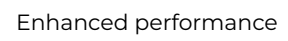
A type



B type



### Enhanced performance

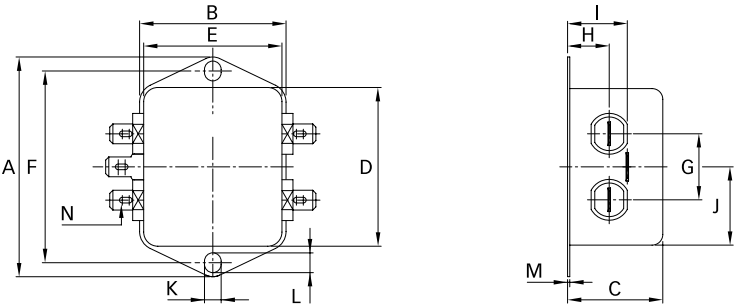


Product Selector

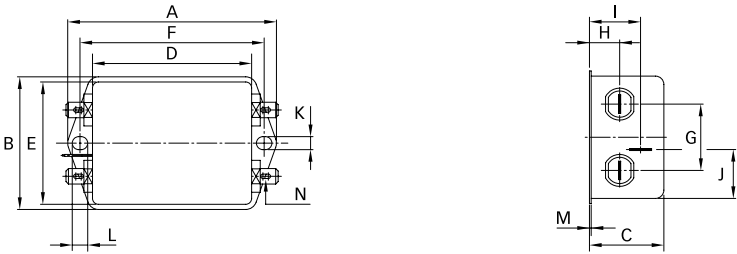
FN 2030 xy-xx-yy		
	06	Faston 6.3 × 0.8 mm (spade/soldering)
	07	Wire leads
	08	Studs (M4 screws)
	1 to 60	Rated current
	Blank	Standard version
	Z	With surge protection
	Blank	Standard version
	A	Safety version
	B	Medical version
	N1/M	High performance version

Mechanical data

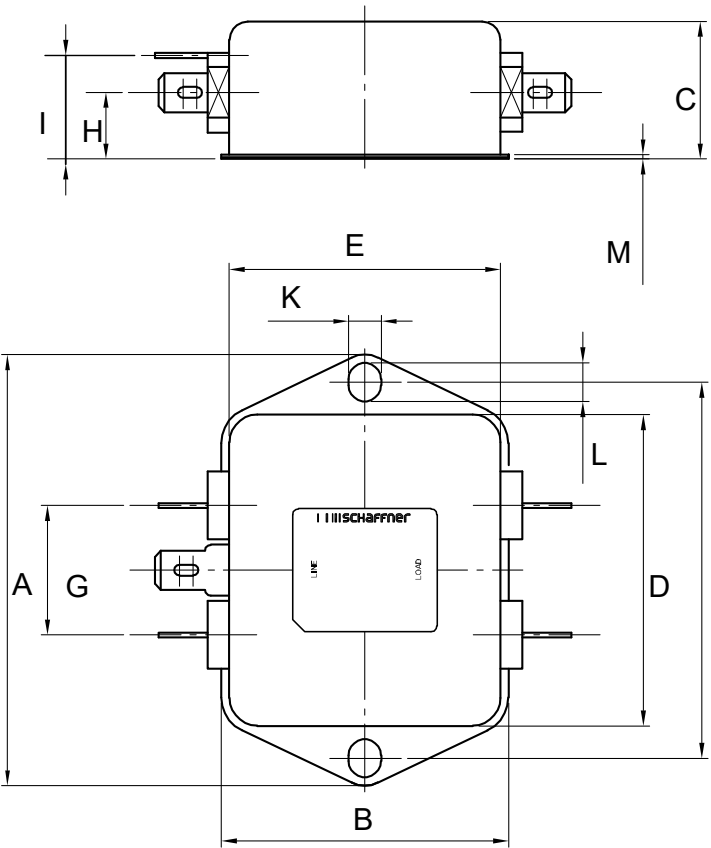
Connection style -06, 1 A types



Connection style -06, 8 to 20 A types

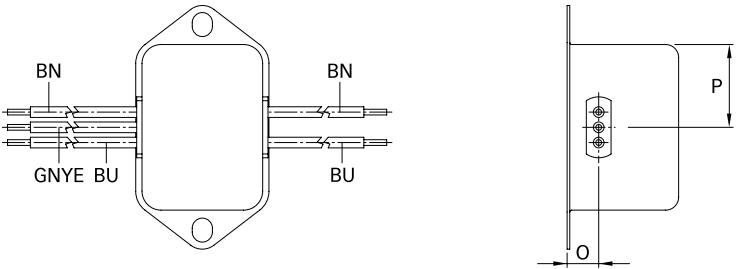


Connection style -06, 3 to 6 A types

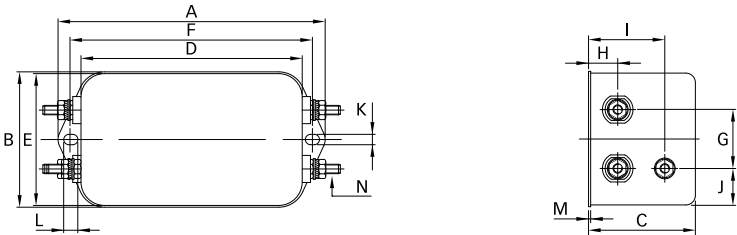


Connection style -07, 8 to 16 A types (same dimensions as style -06)

Connection style -07, 1 to 6 A types (same dimensions as style -06)



Connection style -08, 16 to 30 A types



Dimensions

	1 A	3 A	4 A	6 A	8 A	10 A	12 A	16 A	20 A	30 A	Tolerances
A	64	71	71	71	85	85	85	85	85	85	±0.5
B	35	46.6	46.6	46.6	54	54	54	54	54	54	±0.5
C	24.3	22.3	22.3	22.3	30.3	30.3	30.3	40.3	40.3	40.3	±0.5
D	43.5	50.5	50.5	50.5	64.8	64.8	64.8	64.8	64.8	64.8	±0.5
E	32.5	44.5	44.5	44.5	49.8	49.8	49.8	49.8	49.8	49.8	±0.5
F	54	61	61	61	75	75	75	75	75	75	±0.3
G	21	21	21	21	27	27	27	27	27	27	±0.2
H	9.3	10.8	10.8	10.8	12.3	12.3	12.3	12.3	12.3	12.3	±0.5
I	15.3	16.8	16.8	16.8	20.8	20.8	20.8	29.8	29.8	29.8	±0.5
J	21.8	25.25	25.25	25.25	19.9	19.9	19.9	11.4	11.4	11.4	±0.5
K	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	
L	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
M	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
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	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	8.3	8.3			±0.5
P	21.8	14	14	14	14.9	14.9	14.9	14.9			±0.5
AWG type wire	AWG 20	AWG 20	AWG 20	AWG 18	AWG 18	AWG 18	AWG 16	AWG 16			
Wire length	140	140	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	

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

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[FN2030-1-07](#) [FN2030-3-07](#) [FN2030-4-07](#) [FN2030-6-07](#) [FN2030-8-07](#) [FN2030-10-06](#) [FN2030-10-07](#) [FN2030-12-06](#)  
[FN2030-12-07](#) [FN2030-16-06](#) [FN2030-16-07](#) [FN2030-20-06](#) [FN2030-20-07](#) [FN2030-30-08](#) [FN2030A-1-06](#)  
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[FN2030B-1-06](#) [FN2030B-4-06](#) [FN2030B-6-06](#) [FN2030B-8-06](#) [FN2030B-10-06](#) [FN2030B-12-06](#) [FN2030B-16-06](#)  
[FN2030A-20-06](#) [FN2030A-30-08](#) [FN2030B-20-06](#) [FN2030B-30-08](#) [FN2030-20-08](#) [FN2030Z-1-06](#) [FN2030Z-3-06](#)  
[FN2030Z-4-06](#) [FN2030Z-6-06](#) [FN2030Z-8-06](#) [FN2030Z-10-06](#) [FN2030Z-12-06](#) [FN2030Z-16-06](#) [FN2030Z-20-06](#)  
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