

Dual-Stage High Performance AC/DC EMI/EMC FILTER

Feature and Benefits

- EN 2080 Dual-stage filters are designed for easy and fast chassis mounting.
- The EN 2080 filters are also available as B versions with no Ycapacitors for medical applications as well as A versions with low capacitance for safety critical applications with a requirement for low leakage currents.
- All filters provide a high conducted attenuation, performance, based on chokes with high saturation resistance and excellent thermal behaviour
- EN 2080 filters are also available as dual stage filters(EN 2070)
- Various terminal options allow you to select the desired connection style
- Rated current from 1 to 16 A
- High deferential & Common mode performance
- Optional medical version (Type B)
- Optional safety version (Type A)







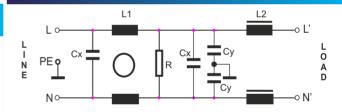




Technical specifications

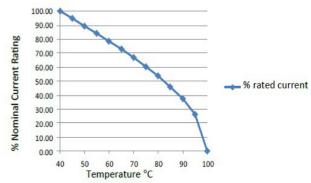
Maximum continuous operating voltage	250VAC, 50/60Hz
Operating Frequency	DC to 400Hz
Rated Currents	1 to 16A @40°C
High Potential Test voltage	L-GND 2550 VDC for 2 sec L-GND 3500 VDC for 2 sec (B types) L - N 1100 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Certified to	UL 1283,EC/EN60939 (Applies to AC and DC Applications)
Flammability Corresponding to	UL 94V-2 better

ELECTRICAL SCHEMATIC



Type B (Medical Version) No

Temperature Derating Curve for EMC Filters Rated at 40°C Ambient and 100°C Maximum



Typical Application

- · Electrical and electronic equipment
- · Consumer goods
- Household equipment
- · Medical equipment
- Electronic data processing equipment
- · Office automation and datacom equipment





FILTER SELECTION TABLE

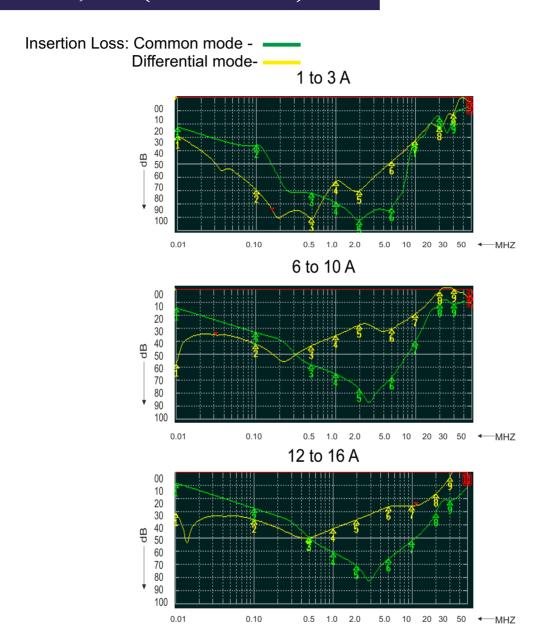
	Rated current	Leakage current	Inductance (L-L)	Capacitance (L-N)	Capacitance (L-G)	Resistance (L-N)	Conne	etion	type	Weight
Filters**	@40°C	@250V/50Hz	(L-L) ΣL	(L-IV) ΣCx	(L-G) ΣCy	` '		1	Д	
	ω 40 C Α	mA	mH	μF	nF	ΚΩ			嵐	gram (g)
EN2080-1-X	1(1.15)	0.66	22.49	0.66	9.4	1000	F	W		210
EN2080-3-X	3(3.45)	0.66	9.96	0.94	9.4	470	F	W		270
EN2080-6-X	6(6.90)	0.66	7.91	2	9.4	220	F	W		450
EN2080-10-X	10(11.5)	0.66	4.66	2	9.4	220	F	W		750
EN2080-12-X	12(13.8)	0.66	3.75	2	9.4	220	F	W	S	750
EN2080-16-X	16(18.4)	0.66	2.483	2	9.4	220	F	W	S	1000
Low Leakage Ve	rsion									
EN2080A-1-X	1(1.15)	0.07	22.49	0.66	0.94	1000	F	W		210
EN2080A-3-X	3(3.45)	0.07	9.96	0.94	0.94	470	F	W		270
EN2080A-6-X	6(6.90)	0.07	7.91	2	0.94	220	F	W		450
EN2080A-10-X	10(11.5)	0.07	4.66	2	0.94	220	F	W		750
EN2080A-12-X	12(13.8)	0.07	3.75	2	0.94	220	F	W	S	750
EN2080A-16-X	16(18.4)	0.07	2.483	2	0.94	220	F	W	S	1000
Medical Version	Without Y c	ар								
EN2080B-1-X	1(1.15)	0.00	22.49	0.66		1000	F	W		210
EN2080B-3-X	3(3.45)	0.00	9.96	0.94		470	F	W		270
EN2080B-6-X	6(6.90)	0.00	7.91	2		220	F	W		450
EN2080B-10-X	10(11.5)	0.00	4.66	2		220	F	W		750
EN2080B-12-x	13(00.0)	0.00	3.75	2		220	F	W	S	750
EN2080B-16-X	16(18.4)	0.00	2.483	2		220	F	W	S	1000

To compile a complete part number, please replace the -.. with the required I/O connection style (e.g. EN 2080-16-S, EN 2080B-10-F). The different letters code the ** Maximum leakage under usual AC operating conditions (acc. IEC 60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.





TYPICAL INSERTION LOSS, dB (50/50 Ohm)

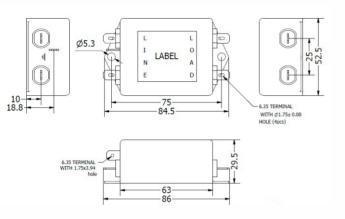




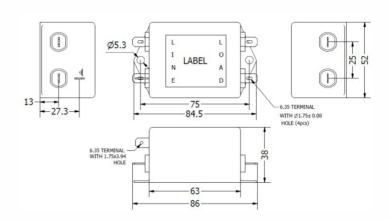


MECHANICAL DETAILS

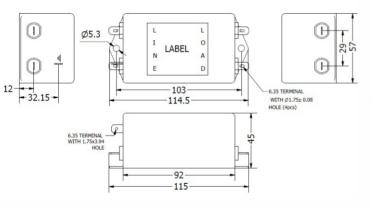
1Amp Faston Terminal



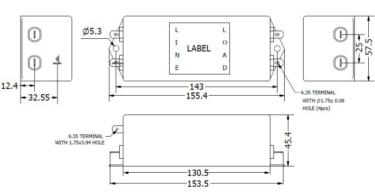
3Amp Faston Terminal



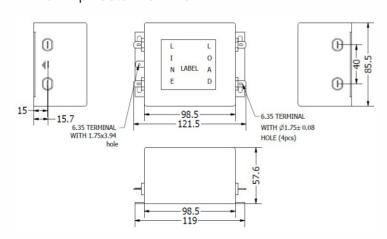
6 Amp Faston Terminal



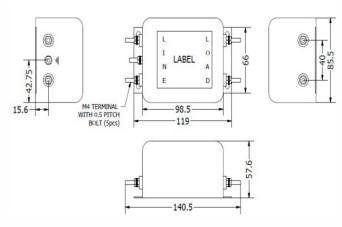
10 & 12Amp Faston Terminal



16 Amp Faston Terminal



16Amp Screw Terminal (M4)



**All Dimension are in mm



FILTERS RECOMMENDATIONS



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I	M		-		M	VF

APPLICATION AND BASIC DIFFERENCE OF ALL EN20XX SERIES

		FILTER					SIO DII I ERENGE OI ALL ENZUAX GERIEC			
Sn	Series	Type	Rated Current (A)	Stage	Performance	Circuit details	Application	Medical Version	Low Leakage	Surge Protection
1	EN2010	Single Phase	1, 3, 6, 10, 12, 13,16, 20, 30	Single	General Attenuation	000 1 000 000 000 000 000 000 000 000 0	General Purpose Application, Household equipment, medical equipment office automation & Electrical and Electronics equipment	Available	Available	
2	EN2020	Single Phase	1,3, 6, 10, 12,16, 20, 30	Single	High differential Mode Attenuation	No State of	General Purpose Application, Household equipment, medical Equipment office automation, datacom application & Electrical and Electronics equipment	Available	Available	
3	EN2030	Single Phase	1, 3, 4, 6, 8, 10, 12, 16, 20, 30	Single	High differential Mode Attenuation	N	General Purpose Applications, Household equipment, medical Equipment office automation & Electrical and Electronics equipment, high noise application	Available	Available	**Available, 2KV IEC 61000-4-5
4	EN2060	Single Phase	1, 3, 6, 10,12, 16, 20, 30	Dual	High differential & Common Mode attenuation	COO T TO TAX TO	Industrial Applications, Building Automation, Household equipment, medical equipment office automation, Electronics data processing equipment & Various Noisy applications, Motor drives and applications.	Available	Available	
5	EN2070	Single Phase	1, 3, 6, 10, 12, 16, 25, 36	Dual	High differential & Common Mode attenuation	COLO TO	Industrial Applications, Building Automation, Household equipment, Medical Equipment office automation, Electronics data processing equipment & Various Noisy applications, Motor drives and applications.	Available	Available	
6	EN2080	Single Phase	1, 3, 6, 10, 12, 16	Dual	High differential & Common Mode attenuation	No IN	Industrial Applications, Building Automation, Household equipment, medical equipment, office automation, Electronics data processing equipment & Various Noisy applications, Motor drives and applications.	Available	Available	
7	EN2090	Single Phase	1, 3, 4, 6, 8, 10, 12, 16, 20, 30	Dual	Very high differential & Common Mode attenuation		Industrial applications, Building Automation, Household equipment, Medical Equipment, office automation, Electronics data processing equipment & Various Noisy applications, Motor drives and applications.	Available	Available	**Available, 2KV IEC 61000-4-5

Note: ** Surge protection Filter is only CE and ROHS Approved



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