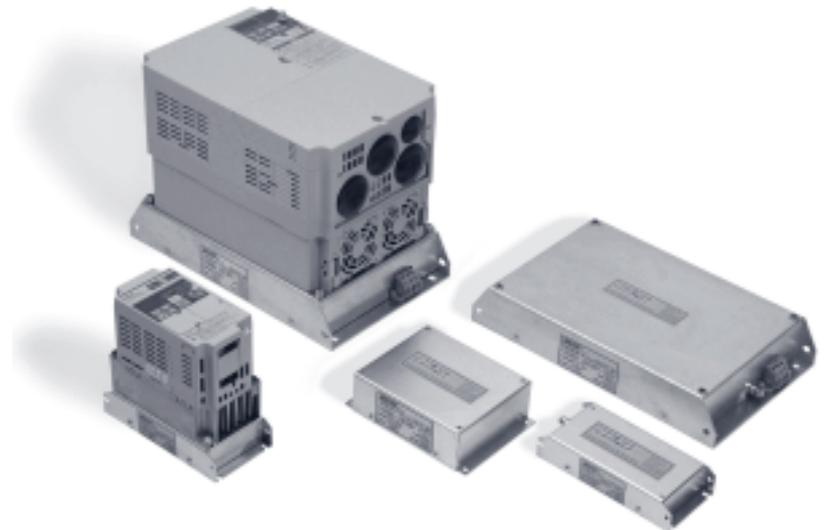


- 1- and 3-phase, 3-phase with neutral
- High attenuation in the 150 kHz - 30 MHz band
- Single filters OM – attenuation in an industrial environment
- Doubled filters YA – attenuation on residential premises
- Minimum values of escape current
- Small dimensions, can be installed on the side
- Can be installed under OMRON and YASKAWA converters

Use:

Noise suppression
 (ČSN EN 50081-1, 2, ČSN EN 55011, 55014)

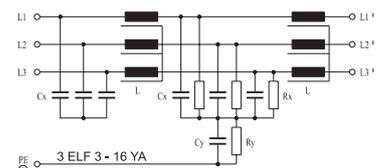
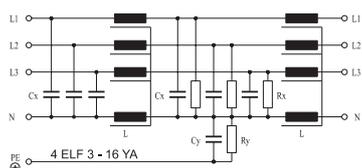
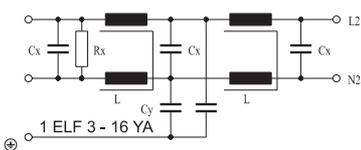
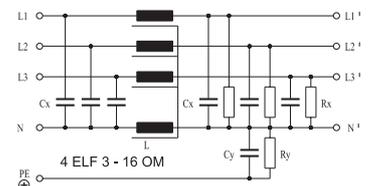
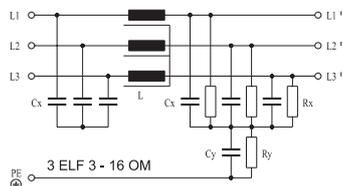
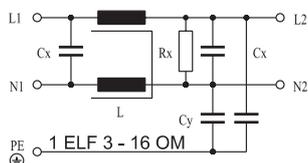
- of frequency converters for asynchronous motors
- of individual sources of noise
- of entire switchboards
- increase of equipment resistance to external noise


Basic Technical Data:

Rated current I_n : cf. Table
 Maximum operating voltage: 440 V AC, 1-phase 250 V AC
 3-phase
 Frequency: DC up to 60 Hz
 Protection class: IP 20
 Overload capacity: 4 x I_n at switch-on; 1.5 x I_n for 1 minute once per hour
 Operating temperature: -25°C to +40°C

I_n [A]	$U_n = 250V$			$U_n = 440V$			$U_n = 440V$			ΣL [mH]	ΣC_x [μF]	ΣC_y [μF]	R_x [M Ω]	R_y [M Ω]	
	1-phase filters 1F	I_{esc} [mA]	loss P[W]	3-phase filters 3F	I_{esc} [mA]	loss P[W]	3-phase filters 3F + N	I_{esc} [mA]	loss P[W]						
3	1ELF3 OM	1,8	1,1	3ELF3 OM	0,3	1,65	4ELF3 OM	0,3	2,2	5	1,3	0,022	2	4	
	1ELF3 YA		2,2	3ELF3 YA		3,3	4ELF3 YA		4,4						10
6	1ELF6 OM		2	3ELF6 OM		3	4ELF6 OM		4						4
	1ELF6 YA		4	3ELF6 YA		6	4ELF6 YA		8						8
10	1ELF10 OM		1,2	3ELF10 OM		1,8	4ELF10 OM		2,4						2,2
	1ELF10 YA		2,4	3ELF10 YA		3,6	4ELF10 YA		4,8						4,4
16	1ELF16 OM		2,6	3ELF16 OM		3,9	4ELF16 OM		5,2						2
	1ELF16 YA		5,2	3ELF16 YA		7,8	4ELF16 YA		10,2						4
20	1ELF20 OM		4,2	3ELF20 OM		6,3									
	1ELF20 YA		8,4	3ELF20 YA		12,6									

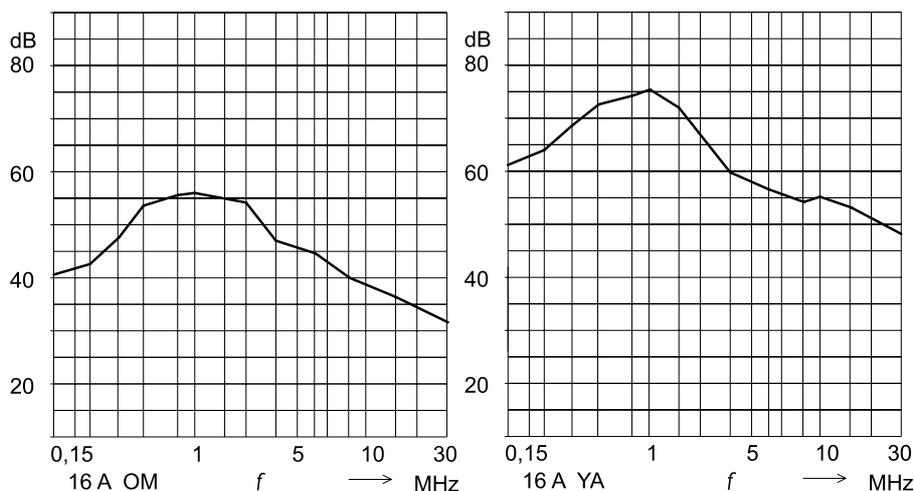
The stated values of escape current are valid for U_n and 50 Hz. In the least favourable case (only one phase on) the maximum values of the escape current are doubled for 1-phase filters and multiplied by six for 3-phase and 3-phase+N filters.



Test Voltage

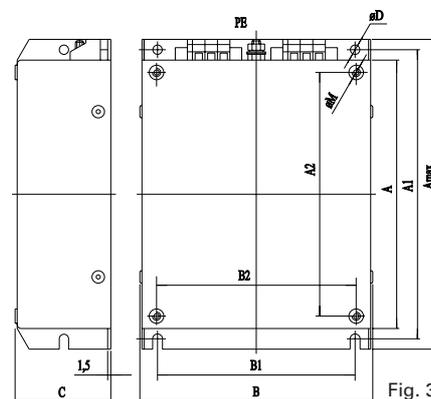
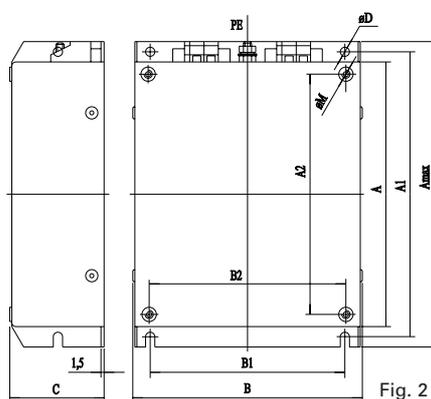
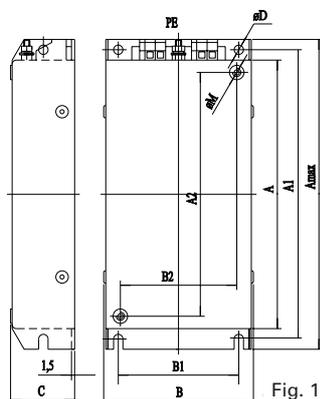
L, N - PE	1F	350 VAC/1 min, 2000 VDC/2s
	3F (+N)	500 VAC 1 min, 2200 VDC/2s
L - L, N	1F, 3f(+N)	1600 VDC/2s

Attenuation Characteristics insertion loss 50Ω/50Ω asymm.



OVERVIEW OF TYPES – TECHNICAL PARAMETERS

Type code	Basic dimensions of block (length x width x height)			Openings for securing in switchboard				Nuts for securing converter to block			terminals [mm ²]	PE bolt	Weight [kg]	Fig.
	Amax [mm]	A [mm]	B [mm]	C [mm]	A1 [mm]	B1 [mm]	∅D [mm]	M	A2 [mm]	B2 [mm]				
1-phase filters														
1ELF 3 YA(OM)	150	130	72	31	140	58	4,5	M4	118	56	1,5	M3	0,25	1
1ELF 6 YA(OM)			112	46		95				96				
1ELF 10YA(OM)			112	46	95	96								
1ELF 16 YA(OM)			112	46	95	96								
1ELF 20 YA(OM)			112	46	95	96								
3-phase and 3-phase plus N filters														
3(4)ELF 3 YA(OM)	150	130	112	46	140	95	4,5	M4	118	96	2,5	M4	0,3	3
3(4)ELF 6 YA(OM)			112							96			0,5	
3(4)ELF 10 YA(OM)			140							128			0,7	
3(4)ELF 16 YA(OM)			140							128			0,7	
3(4)ELF 20 YA(OM)			140							128			0,7	
3ELF 20 YA(OM)	295	260	182	51	275	150	7	M5	244	164	4	M5	1,5	3



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