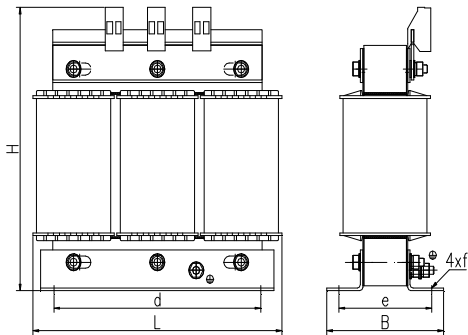


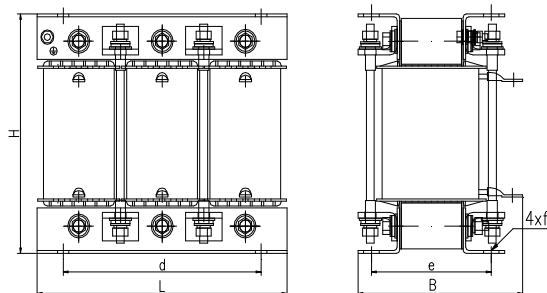


Three-phase line chokes - 4%
 $\Delta U=4\%U_n$, $U_n=3 \times 400V$

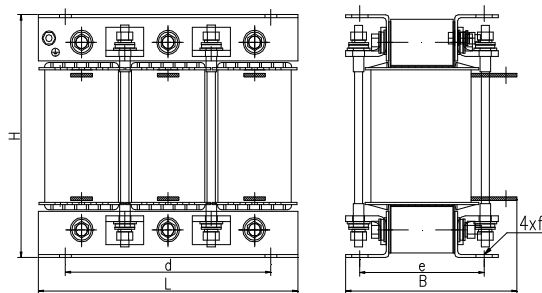
ED3N



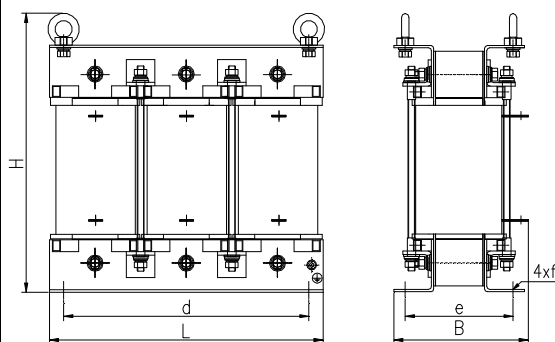
Design A



Design B



Design C



Design D

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60289					
Insulation class	F(155°C) - standard					
Ambient temperature	40°C					
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design					
Harmonic number	1	3	5	7	11	13
Harmonic content (%) - I_{1h}	100	0	20	14	0	0
Phase shift	0	0	0	0	0	0
Frequency of 1-st harmonic	50 Hz					
Rated voltage	$U_n=400 V$					
Overload capacity	110% I_n					
Voltage drop	4% U_n					
Protection degree	IP 00					
Terminals	screw terminal blocks or cable lugs or copper bus bars					
Fastening	by means of angles					

This design of chokes is mostly applied in three-phase power transmission inverter systems. These reactors limit the inrush current and restrict a mutually interference of inverters, which are supplied from the same transformer. The commutation in systems with motor chokes proceeds softly and overvoltages are suppressed.

Line chokes ED3N are simultaneous protective elements limiting the harmonics propagation.

In the table are given data for rated voltage 400V. During the operation the measured voltage drop is 4%. The value of phase inductance [mH] can be calculated by an equation :

$$\text{gdzie: } L = \frac{\Delta U_L \% \cdot U_n}{2\pi\sqrt{3} \cdot f_n \cdot I_n} \cdot 10^3 \text{ [mH]}$$

$\Delta U\%$ - voltage drop in % resulting from the choke inductance

U_n - rated phase-to-phase voltage [V]

I_n - rated current [A]

f_n - rated frequency [Hz]

It is possible after prior settlement to produce chokes with other technical data and in various designs.

Note:

Manufacturer reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

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ED/2010/V/04



Technical data of three-phase line chokes - 4%

Item	Choke type	Inductance [mH]	Current [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
1	ED3N - 9,80/3	9,80	3	100	52	122	80	31	5x8	0,92	A
2	ED3N - 7,30/4	7,30	4	100	60	122	80	40	5x8	1,3	A
3	ED3N - 4,90/6	4,90	6	100	60	122	80	40	5x8	1,4	A
4	ED3N - 3,60/8	3,60	8	125	61	141	100	45	5x8	1,8	A
5	ED3N - 2,40/12	2,40	12	125	71	141	100	55	5x8	2,4	A
6	ED3N - 1,80/16	1,80	16	155	77	160	130	57	8x11	3,4	A
7	ED3N - 1,20/25	1,20	25	155	121	130	130	72	8x11	5,4	B
8	ED3N - 0,98/30	0,98	30	195	110	160	173	72	8x11	5,9	B
9	ED3N - 0,82/36	0,82	36	195	120	160	173	82	8x11	7,5	B
10	ED3N - 0,59/50	0,59	50	195	134	160	173	92	8x11	9,3	B
11	ED3N - 0,49/60	0,49	60	195	134	180	173	78	8x11	10,4	B
12	ED3N - 0,42/70	0,42	70	240	157	210	198	95	11x29	11,8	B
13	ED3N - 0,33/90	0,33	90	240	160	210	198	95	11x29	12,8	B
14	ED3N - 0,27/110	0,27	110	240	146	210	198	105	11x29	16,2	C
15	ED3N - 0,24/120	0,24	120	240	152	210	198	115	11x29	19,5	C
16	ED3N - 0,20/150	0,20	150	300	161	265	240	122	11x15	25	C
17	ED3N - 0,16/180	0,16	180	260	180	225	198	126	11x29	29	C
18	ED3N - 0,13/220	0,13	220	300	196	265	240	147	11x15	36,5	C
19	ED3N - 0,11/260	0,11	260	300	211	265	240	162	11x15	43,5	C
20	ED3N - 0,092/320	0,092	320	357	203	310	300	148	11x21	53	C
21	ED3N - 0,074/400	0,074	400	420	205	415	370	141	11x15	57	D
22	ED3N - 0,059/500	0,059	500	420	215	415	370	151	11x15	66	D
23	ED3N - 0,047/630	0,047	630	420	272	415	370	181	11x15	94	D
24	ED3N - 0,042/700	0,042	700	480	280	475	430	191	13x18	104	D
25	ED3N - 0,037/800	0,037	800	480	263	475	430	208	13x18	122	D
26	ED3N - 0,033/900	0,033	900	480	288	490	430	208	13x18	128	D
27	ED3N - 0,029/1000	0,029	1000	480	318	490	430	238	13x18	155	D
28	ED3N - 0,027/1100	0,027	1100	540	338	535	490	258	13x18	176	D
29	ED3N - 0,024/1250	0,024	1250	540	350	535	490	268	13x18	196	D

Note:

Manufacturer reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added