

**ED3du,
Limiting reactor**

6 A up to 2250 A



Certificates



Technical data

Rated current	6-2250 A
Rated voltage	380-500 V
Rated frequency	50/60 Hz
Switching frequency	≥2 kHz
Overload capability	110% I _n (continuous)
	160% I _n 1 min/h (momentary)
Cooling	AN – air natural
Ambient temperature	40°C – land design
	45°C – maritime design
	≥50°C – heavy duty design or derating
Insulation class	F (155°C)
Winding material	Aluminium, copper
Standard equipment	NC temperature switch
Mounting	Standing, vertical
Degree of protection	IP00
Standards compatibility	PN-EN 61558-20, PN-EN 60076-6

*- UL approved insulation system

Function

Limiting reactors are basic elements for motor protection. Insulation system of the motor is protected against high steepness of PWM voltage pulses generated by a frequency converter. ED3du reactors are the most effective with short to medium length of motor cables. They are the minimum necessary that the user should provide for the purpose of long, failure-free operation of the AC motor.

Benefits

- Reduction of the steepness of voltage rise dv/dt
- Lower motor temperature
- Prolonged motor life
- High control precision with simultaneous motor protection
- Limiting EMC disturbances caused by transistors switching

Application

- Drive systems with frequency converters
- AC motors with lowered insulation strength
- Motor cables of short to medium length

Dimensions

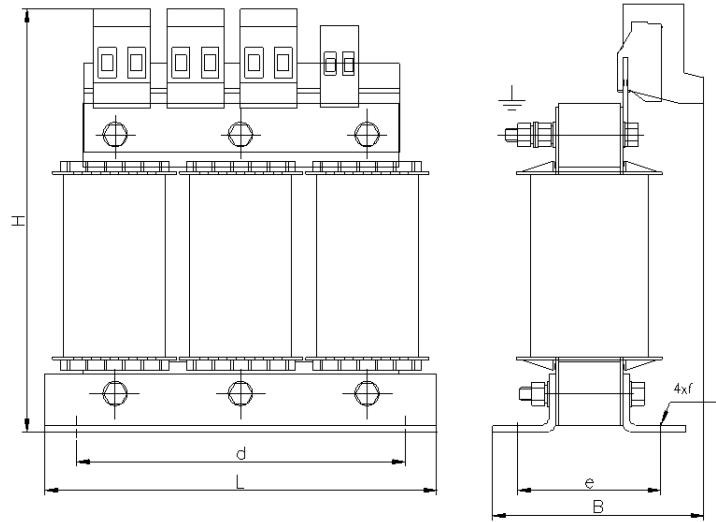
380-500 V, 50/60 Hz, T40F

No.	Type of reactor	Drive power	Inductance	Current	Winding material	L	B	H	d	e	f	Weight	Execution
		[kW]	[mH]	[A]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
1	ED3dU-1,12mH/6A	2,2	1,12	6	Cu	100	49	120	80	33	4x(5x8)	1	A
2	ED3dU-0,84mH/8A	3	0,84	8	Cu	100	49	120	80	33	4x(5x8)	1	A
3	ED3dU-0,67mH/10A	4	0,67	10	Cu	100	58	120	80	42	4x(5x8)	1,3	A
4	ED3dU-0,52mH/13A	5,5	0,52	13	Cu	100	58	120	80	42	4x(5x8)	1,5	A
5	ED3dU-0,40mH/17A	7,5	0,4	17	Cu	125	61	136	100	45	4x(5x8)	1,9	A
6	ED3dU-0,28mH/24A	11	0,28	24	Cu	125	83	143	100	55	4x(5x8)	2,7	A
7	ED3dU-0,21mH/32A	15	0,21	32	Cu	155	85	166	130	57	4x(8x11)	3,5	A
8	ED3dU-0,18mH/38A	18,5	0,18	38	Cu	155	85	166	130	57	4x(8x11)	3,7	A
9	ED3dU-0,15mH/46A	22	0,15	46	Cu	155	85	166	130	57	4x(8x11)	3,9	A
10	ED3dU-0,11mH/62A	30	0,11	62	Cu	155	100	166	130	72	4x(8x11)	5,3	A
11	ED3dU-0,095mH/72A	37	0,095	72	Cu	195	105	160	173	72	4x(8x11)	6,3	B
12	ED3dU-0,075mH/90A	45	0,075	90	Cu	195	115	160	173	82	4x(8x11)	7,6	B
13	ED3dU-0,062mH/110A	55	0,062	110	Al	208	110	182	173	78	4x(8x11)	8,3	B
14	ED3dU-0,045mH/150A	75	0,045	150	Al	208	118	182	173	85	4x(8x11)	9,8	B
15	ED3dU-0,038mH/180A	90	0,038	180	Al	240	135	210	198	95	4x(11x29)	13,1	B
16	ED3dU-0,032mH/210A	110	0,032	210	Al	240	145	210	198	105	4x(11x29)	15,3	B
17	ED3dU-0,026mH/260A	132	0,026	260	Al	240	155	210	198	115	4x(11x29)	17,5	B
18	ED3dU-0,021mH/320A	160	0,21	320	Al	300	162	268	240	120	4x(11x15)	23,3	B
19	ED3dU-0,017mH/400A	200	0,017	400	Al	300	190	268	240	133	4x(11x15)	28,5	B
20	ED3dU-0,013mH/500A	250	0,013	500	Al	300	197	268	240	145	4x(11x15)	32,6	B
21	ED3dU-0,011mH/600A	315	0,011	600	Al	357	200	307	300	131	4x(11x21)	41,5	B
22	ED3dU-0,010mH/660A	355	0,01	660	Al	357	200	307	300	131	4x(11x21)	42,3	B
23	ED3dU-0,009mH/750A	400	0,009	750	Al	357	217	310	300	146	4x(11x21)	51,1	B
24	ED3dU-0,0075mH/900A	500	0,0075	900	Al	340	261	342	300	163	4x(11x21)	62,4	B
25	ED3dU-0,0065mH/1000A	560	0,0065	1000	Al	420	251	370	370	153	4x(13x18)	66,5	B
26	ED3dU-0,006mH/1100A	630	0,006	1100	Al	420	255	400	370	153	4x(13x18)	70,5	B
27	ED3dU-0,0055mH/1250A	710	0,0055	1250	Al	420	275	443	370	163	4x(13x18)	84,2	B
28	ED3dU-0,0045mH/1450A	800	0,0045	1450	Al	420	285	492	370	163	4x(13x18)	92	B
29	ED3dU-0,004mH/1650A	900	0,004	1650	Al	500	332	595	430	188	4xM12	135	C
30	ED3dU-0,0035mH/1850A	1000	0,0035	1850	Al	500	342	653	430	188	4xM12	146	C
31	ED3dU-0,0032mH/2050A	1120	0,0032	2050	Al	500	355	700	430	198	4xM12	166	C
32	ED3dU-0,003mH/2250A	1250	0,003	2250	Al	500	360	705	430	198	4xM12	170	C

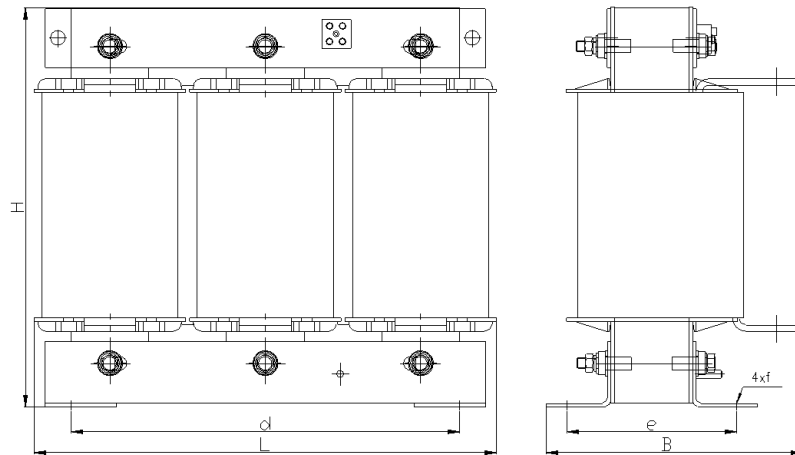
Manufacturer reserves the right to make changes resulting from the continuous development of products offered

Drawings

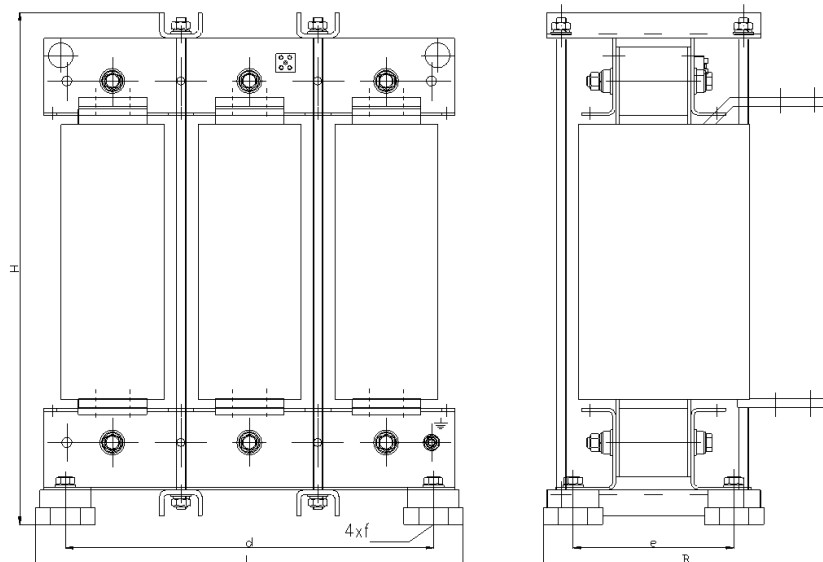
Execution A



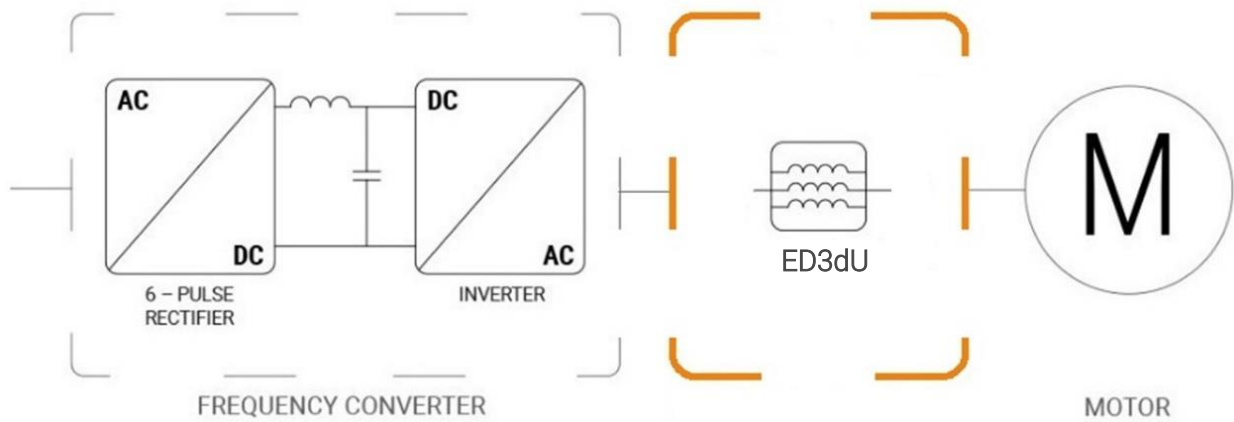
Execution B



Execution C



Typical application schematic



Typecode

E	D	3	du	0,032mH/210A	380-500V	50/60Hz	fkmin=2kHz	T40F	AL	IP23
Manufacturer symbol	Instrument type	Number of phases	Application type	Rated inductance / current	Rated voltage	Rated frequency	Minimum switching frequency	Insulation class	Winding material Blank if copper	Protection degree Blank if IP00

Special execution

Products with parameters exceeding the catalogue card can be made upon prior contact

Contact

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