

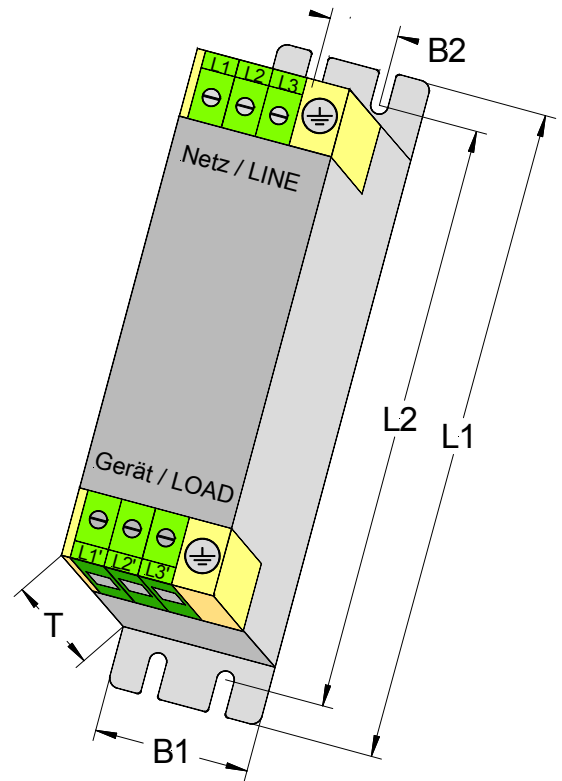
### 2.4 Chassis line filter (accessory)

In contrast to the line filter described in Chapter 2.3, the HLD 110 (up to 110kW) has a UL acceptance for the North American market.

The interference noise suppression level of **class A** is achieved with up to a maximum motor cable length of 50m, and **class B** with motor cables of up to 25m.

When connecting the line filter, comply with Chapter 2.9 "Wiring guidelines" and 8.3 "EMC". In particular, ensure that the pulse frequency is set to the default value (P504 = 4/6kHz). The line filter should be placed as close to the side of the inverter as possible.

The connection is by means of screw connections on the upper (mains) and lower (inverter) ends of the filter



Inverter type SK 700E ...	Filter type HLD 110 - ... [V] / [A]	Length L1	Width B1	Depth T	Detail: mounting		Connection cross-section	
					Length L2	Width B2		
...-151-340-A ...-221-340-A	... 500/8	190	45	75	180	20	4 mm <sup>2</sup>	
...-301-340-A ...-401-340-A ...-551-340-A	... 500/16	250	45	75	240	20	4 mm <sup>2</sup>	
...-751-340-A ...-112-340-A	... 500/30	270	55	95	255	30	10 mm <sup>2</sup>	
...-152-340-A	... 500/42	310	55	95	295	30	10 mm <sup>2</sup>	
...-182-340-A	... 500/55	250	85	95	235	60	16 mm <sup>2</sup>	
...-222-340-A ...-302-340-O	... 500/75	270	85	135	255	60	35 mm <sup>2</sup>	
...-372-340-O	... 500/100	270	95	150	255	65	50 mm <sup>2</sup>	
...-452-340-O ...-552-340-O	... 500/130							
...-752-340-O	... 500/180	380	130	181	365	102	95 mm <sup>2</sup>	
...-902-340-O ...-113-340-O	... 500/250	450	155	220	435	125	150 mm <sup>2</sup>	
Design variant, <b>without UL</b> , only noise suppression level A							Bus bar	
...-133-340-O	HFD 103-500/300 *	564	300	160	2 x 210	275	Ø 8.5mm	
...-163-340-O	HFD 103-500/400 *						Ø 10.5mm	
*) without UL/cUL		All dimensions in mm						

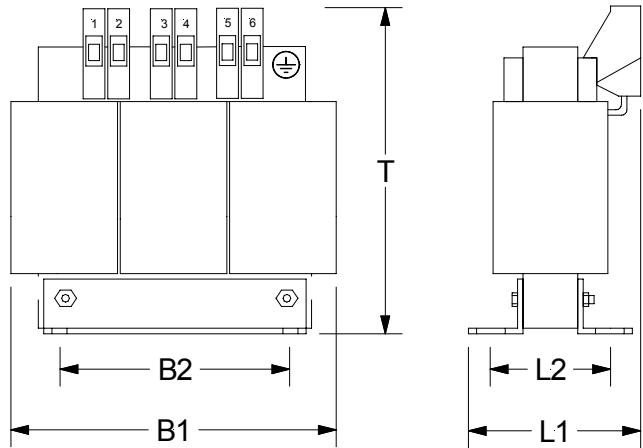
## 2.5 Line choke (accessories)

To reduce input side current harmonics, additional inductivity can be installed into the line supply to the inverter.

These chokes are specified for a maximum supply voltage of 480V at 50/60 Hz.

The protection class of the chokes is IP00 and they must therefore be installed in a control cabinet.

For frequency inverters with **an output of 45 kW or more**, a line choke is recommended where several devices are being used, in order to avoid possible adverse effects of one device on another. In addition, the charging currents (mains voltage fluctuations) are significantly reduced.



Inverter type NORDAC SK 700E	Input choke 3 x 380 - 480 V			Length L1	Width B1	Depth T	Detail: mounting			Connection
	Type	Permanent current	Inductance				Length L2	Width B2	Mounting	
1.5 ... 2.2 kW	SK CI1-460/6-C	6 A	3 x 4.88 mH	71	125	140	55	100	M4	4
3.0 ... 4.0 kW	SK CI1-460/11-C	11 A	3 x 2.93 mH	84	155	160	56.5	130	M6	4
5.5 ... 7.5 kW	SK CI1-460/20-C	20 A	3 x 1.47 mH	98	190	191	57.5	170	M6	10
11 ... 18.5 kW	SK CI1-460/40-C	40 A	3 x 0.73 mH	118	190	191	77.5	170	M6	10
22 ... 30 kW	SK CI1-460/70-C	70 A	3 x 0.47 mH	124	230	290	98	180	M6	35
37 ... 45 kW	SK CI1-460/100-C	100 A	3 x 0.29 mH	148	230	290	122	180	M6	50
55 ... 75 kW	SK CI1-460/160-C	160 A	3 x 0.18 mH	170	299	360	105	237	M8	95
90 ... 132 kW	SK CI1-460/280-C	280 A	3 x 0.10 mH	190	290	270	133	240	M10	150
160 kW	SK CI1-460/350-C	350 A	3 x 0.084 mH	190	300	270	107	224	M8	CU Bar
All dimensions in [mm]										[mm <sup>2</sup> ]

### 2.6 Output choke (accessories)

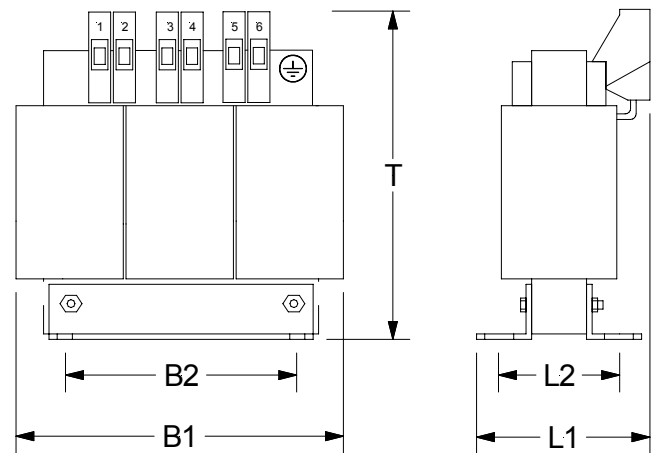
To reduce interference signals from the motor cable or to compensate for cable capacitance in long motor cables, an additional output choke can be installed into the inverter output.

Take care during installation that the pulse frequency of the frequency inverter is set to 3-6kHz (P504 = 3-6).

These chokes are specified for a maximum supply voltage of 460V at 0-100 Hz.

An output choke should be fitted for cable lengths over 150m/50m (unshielded/shielded). Further details can be found in Chapter 2.10.4 "Motor cable".

The protection class of the chokes is IP00 and they must therefore be installed in a control cabinet.



Inverter type NORDAC SK 700E	Output choke 3 x 380 - 460V			Length L1	Width B1	Depth T	Detail: mounting			Connection
	Type	Permanent current	Inductance				Length L2	Width B2	Mounting	
1.5 kW	SK CO1-460/4-C	4 A	3 x 3.5 mH	104	125	140	75	84	M6	4
2.2 ... 4.0 kW	SK CO1-460/9-C	9.5 A	3 x 2.5 mH	105	155	160	71.5	130	M6	4
5.5 ... 7.5 kW	SK CO1-460/17-C	17 A	3 x 1.2 mH	97	190	180	96	170	M6	10
11 ... 15 kW	SK CO1-460/33-C	33 A	3 x 0.6 mH	107	190	180	126	170	M6	10
18 ... 30 kW	SK CO1-460/60-C	60 A	3 x 0.33 mH	140	230	290	95	176	M6	35
37 ... 45 kW	SK CO1-460/90-C	90 A	3 x 0.22 mH	140	300	315	94	224	M8	35
55 ... 90 kW	SK CO1-460/170-C	170 A	3 x 0.13 mH	185	360	452	145	120	M10	95
110 ... 132 kW	SK CO1-460/240-C	240 A	3 x 0.07 mH	215	360	472	175	120	M10	150
160 kW	SK CO1-460/330-C	330 A	3 x 0.03 mH	200	300	270	145	240	M8	CU bar bolts
All dimensions in [mm]										[mm <sup>2</sup> ]