LTEC 雷特电机
Power · Quality · Resource

>>> Reactors for frequency converter

The products are often installed at the outer side or inner side of converters. The main function is to limit the surge current flowing in the power grid, and to reduce its interference with other electrical components.

Features

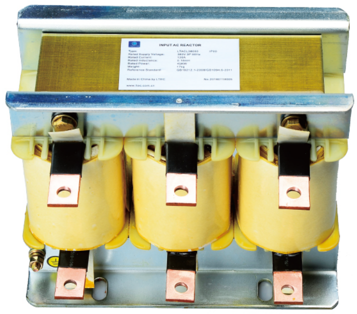
- High voltage drop
- VPI in full automatic system
- Copper connections
- Anti-dust non-wooden packing
- Certified by international standards

Technical Data

Standard	EN60076-6,EN61558-2-20,UL1446
Rated voltage	380V to 1140V
Rated frequency	50Hz/60Hz
Line voltage tolerance	+/-10%
Dielectric test	50Hz 3kV,60s
Cooling method	Natural air
Ambient temperature	-25 to +50℃
Elevation above sea level	≤1000m a.s.l.(≤5000m optional)
Protection class	IP00 indoor mounting
Rated voltage drop	3%-6%
Insulation class	H (UL approved resin)
Maximum humidity	95%
Design method	Single phase or three phase, dry type iron core, multiple air gap
Winding material	Copper
Terminals	Copper terminals
Approval marks	CE,TUV, EAC, cULus

Input AC reactors

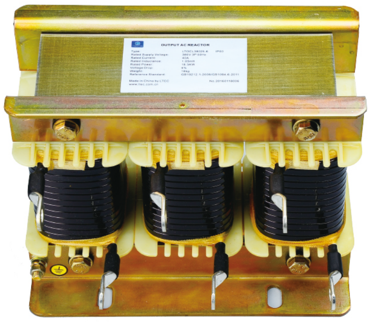
Also called line reactors, are used at inner side of the converter, so as to protect its electrical components and DC circuit from transient overpressure. It can also reduce the surge and peak current and increase the input power factor, as well as restrain the harmonics in the grid and improve the functions of input current wave,to ensure the safe operations of the frequency converter and motors.



Ordering Code	U_N(V)	Converter (HP)	Power (KW)	I_N(A)	L_N(mH)	Weight(kg)
f_N=50Hz, 3Phase, Copper wire winding						
LTACL38007	380	7	5.5	15	1.42	5
LTACL38010		10	7.5	20	1.06	6
LTACL38015		15	11	30	0.7	7
LTACL38020		20	15	40	0.63	9
LTACL38025		25	18.5	50	0.42	10
LTACL38030		30	22	60	0.36	11
LTACL38040		40	30	80	0.26	15
LTACL38050		50	37	90	0.24	16
LTACL38060		60	45	120	0.18	21
LTACL38075		75	55	150	0.15	23
LTACL38100		100	75	200	0.11	29
LTACL38120		120	90	220	0.1	32
LTACL38150		150	110	250	0.09	34
LTACL38175		175	132	290	0.07	37
LTACL38200		200	150	330	0.06	40
LTACL38250		250	185	380	0.05	43
LTACL38300		300	220	490	0.04	60
LTACL38400		400	300	660	0.03	70

Other specifications are available upon request.

Output AC reactors



Also called outlet reactors, are used for output side of the converter. It can have smooth filtering by reducing the transient voltage dv/dt, and prolong the motor's service life. The reactors are also applied to reduce eddy-current loss and the leak current caused by the harmonics, so as to protect the IGBT power switching components inside the frequency converter.

Ordering Code	U_N(V)	Converter (HP)	Power (KW)	I_N(A)	L_N(mH)	Weight(kg)
f_N=50Hz, 3Phase, Copper wire winding						
LTOCL38007	380	7	5.5	15	1.42	6
LTOCL38010		10	7.5	20	1.06	7
LTOCL38015		15	11	30	0.7	10
LTOCL38020		20	15	40	0.63	12
LTOCL38025		25	18.5	50	0.42	13
LTOCL38030		30	22	60	0.36	15
LTOCL38040		40	30	80	0.26	19
LTOCL38050		50	37	90	0.24	21
LTOCL38060		60	45	120	0.18	28
LTOCL38075		75	55	150	0.15	30
LTOCL38100		100	75	200	0.11	38
LTOCL38120		120	90	220	0.1	42
LTOCL38150		150	110	250	0.09	45
LTOCL38175		175	132	290	0.07	49
LTOCL38200		200	150	330	0.06	53
LTOCL38250		250	185	380	0.05	58
LTOCL38300		300	220	490	0.04	79
LTOCL38400		400	300	660	0.03	92

Other specifications are available upon request.

DC reactor

Is used at the DC side of the rectifier, mostly on the frequency converter (AC-DC-AC).It has the function of limiting the current waveform pulse in the rectifier, and the harmonics caused by the converter, thus improving the input power factor.

Ordering Code	U_N(V)	Converter (HP)	Power (KW)	I_N(A)	L_N(mH)	Weight(kg)
f_N=50Hz, 3Phase, Copper wire winding						
LTDCL38007		7	5.5	15	4.45	5
LTDCL38010		10	7.5	20	3.2	6
LTDCL38015		15	11	30	2.23	7
LTDCL38020		20	15	40	1.77	8
LTDCL38025		25	18.5	50	1.46	10
LTDCL38030		30	22	60	1.19	11
LTDCL38040		40	30	80	0.9	14
LTDCL38050		50	37	90	0.73	15
LTDCL38060	380	60	45	120	0.6	16
LTDCL38075		75	55	140	0.48	18
LTDCL38100		100	75	180	0.36	19
LTDCL38120		120	90	220	0.28	21
LTDCL38150		150	110	270	0.24	23
LTDCL38175		175	132	320	0.2	24
LTDCL38200		200	150	400	0.16	25
LTDCL38250		250	185	440	0.14	28
LTDCL38300		300	220	530	0.12	35
LTDCL38400		400	300	750	0.08	49

Other specifications are available upon request.