>>> Low voltage reactors for PFC

The products, also called detuned reactors or filter reactors, are generally used in series with capacitors in PFC system, in order to reach its target induced current. It can be tuned to a certain resonance frequency to absorb the harmonic currents in the grid.

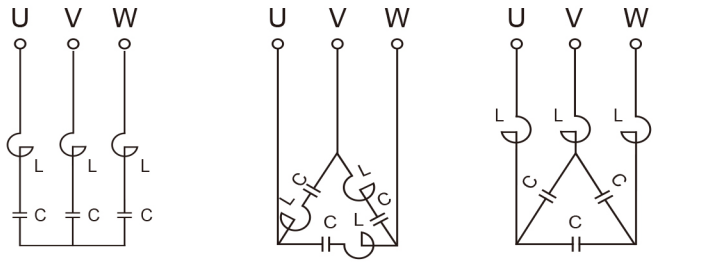
Technical Data

Standard	EN 60076-6,EN 61558-2-20,UL1446
Rated voltage	230V to 1000V
Rated frequency	50Hz/60Hz
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
Permitted harmonic content	$U3=0.5\%U_N$; $U5=5\%U_N$; $U7=5\%U_N$,
Inductance tolerance	0/+5% (or +/-3% as requested)
Blocking factor	5%-14%
Linearity	$1.55\text{-}2.2I_N$
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/ Aluminum
Thermal protection	135℃ normally closed switch (optional)
Terminals	Copper terminals or busbars (flexible cables available on request)
Approval marks	CE,TUV, EAC,

Features

- Very higher linearity
- Lower temperature rising
- Stand 25 times short circuit current in one second
- VPI in full automatic system
- Over heat protection
- Copper connections
- Anti-dust non-wooden packing
- Certified by international standards

Connections Diagram



(a:Single phase connections) (b:Inside delta connection) (c:Outside delta connection)

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Standard Series Reactors for Power Capacitors

Ordering Code	U_N(V)	Q_{LC}(kVar)	Q(kVar)	U_C(V)	L_N(mH)	I_N(A)	I_{rms}(A)	P	Weight(kg)
f_N=50Hz, 3Phase, Copper wire winding									
LTFR307013C	400	13.3	15	440	3*2.879	19.2	21.7	7%	11
LTFR307022C		22.2	25		3*1.727	32.0	36.2		17
LTFR307026C		26.7	30		3*1.439	38.5	43.5		18
LTFR307044C		44.4	50		3*0.864	64.1	72.4		27
LTFR307066C		66.6	75		3*0.575	96.2	108.7		36
LTFR307088C		88.9	100		3*0.432	128.3	144.9		57
LTFR307015C	400	15.0	20	480	3*2.557	21.7	24.5	7%	13
LTFR307025C		25.0	33.4		3*1.534	36.1	40.8		17
LTFR307030C		30.0	40		3*1.278	43.3	48.9		18
LTFR307050C		50.0	66.8		3*0.767	72.2	81.6		28
LTFR307075C		75.0	100		3*0.511	108.3	122.3		37
LTFR307100C		100.0	134		3*0.384	144.3	163.1		58
LTFR314010C	400	10.1	15	525	3*8.194	14.6	16.5	14%	14
LTFR314016C		16.9	25		3*4.916	24.4	27.5		19
LTFR314020C		20.0	30		3*4.097	29.2	33.0		27
LTFR314025C		25.0	37		3*3.318	36.1	40.8		29
LTFR314033C		33.7	50		3*2.458	48.7	55.0		36
LTFR314050C		50.0	74		3*1.659	72.2	81.6		58

Other specifications are available upon request.

Standard Series Reactors for Power Capacitors

Ordering Code	U_N(V)	Q_{LC}(kVar)	Q(kVar)	U_C(V)	L_N(mH)	I_N(A)	I_{rms}(A)	P	Weight(kg)
f_N=50Hz,3Phase,Aluminum foil winding									
LTFR307022A	400	22.2	25	440	3*1.727	32.0	36.2	7%	18
LTFR307026A		26.7	30		3*1.439	38.5	43.5		19
LTFR307044A		44.4	50		3*0.864	64.1	72.4		28
LTFR307066A		66.6	75		3*0.575	96.2	108.7		40
LTFR307088A		88.9	100		3*0.432	128.3	144.9		44
LTFR307025A	400	25.0	33.4	480	3*1.534	36.1	40.8	7%	19
LTFR307030A		30.0	40		3*1.278	43.3	48.9		20
LTFR307050A		50.0	66.8		3*0.767	72.2	81.6		29
LTFR307075A		75.0	100		3*0.511	108.3	122.3		44
LTFR307100A		100.0	134		3*0.384	144.3	163.1		46
LTFR314016A	400	16.9	25	525	3*4.916	24.4	27.5	14%	28
LTFR314020A		20.0	30		3*4.097	29.2	33.0		30
LTFR314025A		25.0	37		3*3.318	36.1	40.8		34
LTFR314033A		33.7	50		3*2.458	48.7	55.0		36
LTFR314050A		50.0	74		3*1.659	72.2	81.6		49

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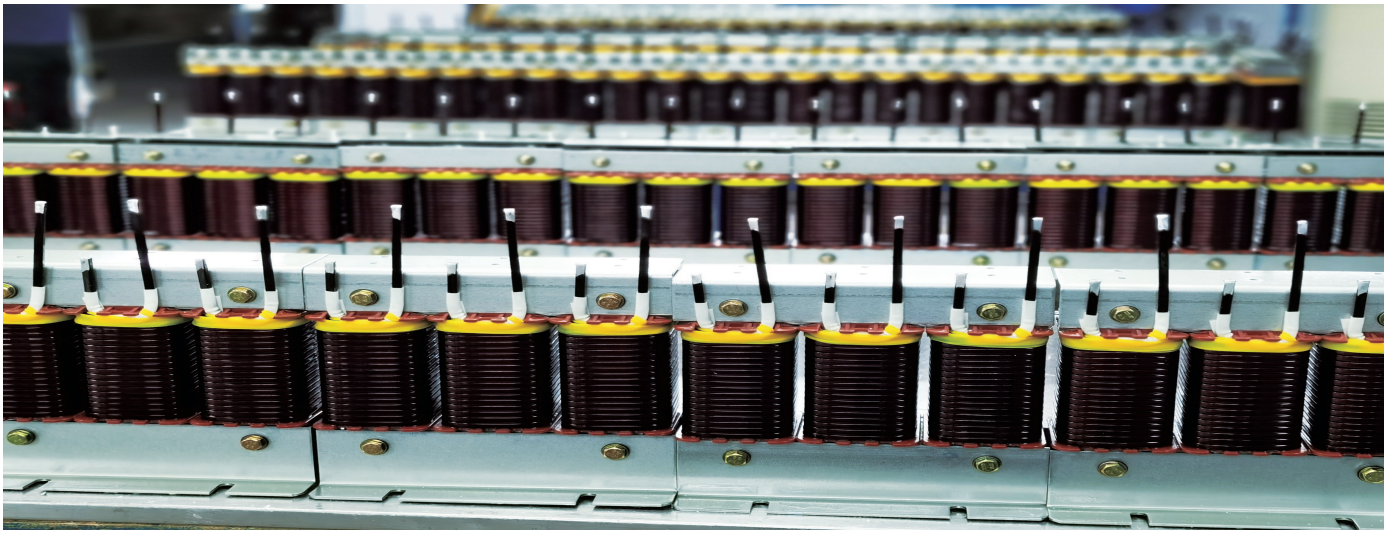
Standard Series Reactors for Power Capacitors

Ordering Code	U_N(V)	Q_{LC}(kVar)	Q(kVar)	U_C(V)	L_N(mH)	I_N(A)	I_{rms}(A)	P	Weight(kg)
f_N=50Hz,3Phase,Aluminum wire winding									
LTFR307017AL	400	17.7	20	440	3*2.159	25.6	28.9	7%	15
LTFR307022AL		22.2	25		3*1.727	32.0	36.2		16
LTFR307026AL		26.7	30		3*1.439	38.5	43.5		17
LTFR307035AL		35.5	40		3*1.080	51.3	57.9		24
LTFR307044AL		44.4	50		3*0.864	64.1	72.4		25
LTFR307066AL		66.6	75		3*0.575	96.2	108.7		39
LTFR307088AL		88.9	100		3*0.432	128.3	144.9		55
LTFR307020AL	415	20.1	30	525	3*2.050	28.0	31.7	7%	16
LTFR307026AL		26.9	40		3*1.537	37.4	42.2		24
LTFR307033AL		33.6	50		3*1.230	46.7	52.8		25
LTFR307040AL		40.3	60		3*1.025	56.1	63.3		26
LTFR307050AL		50.4	75		3*0.820	70.1	79.2		28
LTFR307067AL		67.2	100		3*0.615	93.4	105.6		39
LTFR307100AL		100.7	150		3*0.41	140.1	158.3		57

Other specifications are available upon request.



Standard Series Reactors for Power Capacitors

Ordering Code	U_N(V)	Q_{LC}(kVar)	Q(kVar)	U_C(V)	L_N(mH)	I_N(A)	I_{rms}(A)	P	Weight(kg)
f_N=60Hz,3Phase,Aluminum foil winding/Copper wire winding									
LTFR307026A	480	26.9	30	525	3*1.710	32.0	35.0	7%	18
LTFR307032A		32.3	36		3*1.430	39.0	42.0		20
LTFR307053A		53.8	60		3*0.860	65.0	69.0		31
LTFR307064A		64.5	72		3*0.710	77.0	83.0		38
LTFR307080A		80.6	90		3*0.570	97.0	104.0		40
LTFR307129A		129.0	144		3*0.360	155.0	167.0		66
LTFR312027A	480	27.7	50	690	3*3.210	33.3	36.0	12.7%	30
LTFR312055A		55.4	100		3*1.600	66.7	72.0		50
LTFR312110A		110.8	200		3*0.800	133.4	144.0		102
LTFR314005C	220	5.3	15	400	3*3.960	13.8	15.0	14%	10
LTFR314010C		10.6	30		3*1.980	27.7	30.0		17
LTFR314021C		21.1	60		3*0.990	55.4	60.0		30

Other specifications are available upon request.