



## >>> 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.

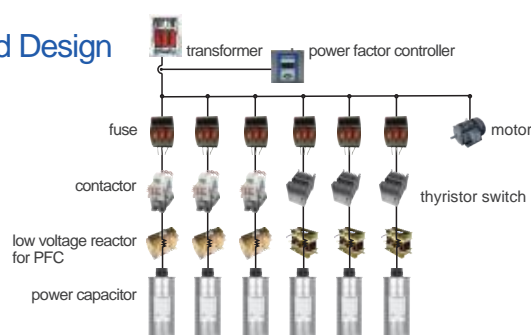
### Technical Data

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°C
Elevation above sea level	≤1000m a.s.l. (≤5000m optional)
Protection class	IP00 indoor mounting
Permitted harmonic content	$U_3=0.5\%U_N$ ; $U_5=5\%U_N$ ; $U_7=5\%U_N$ ,
Inductance tolerance	0/+5% (or +/-3% as requested)
Blocking factor	5%-14%
Linearity	1.55-2.2I <sub>N</sub>
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°C normally closed switch (optional)
Terminals	Copper terminals or busbars (flexible cables available on request)
Approval marks	CE, TUV, EAC,  US

### 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

### Recommended Design



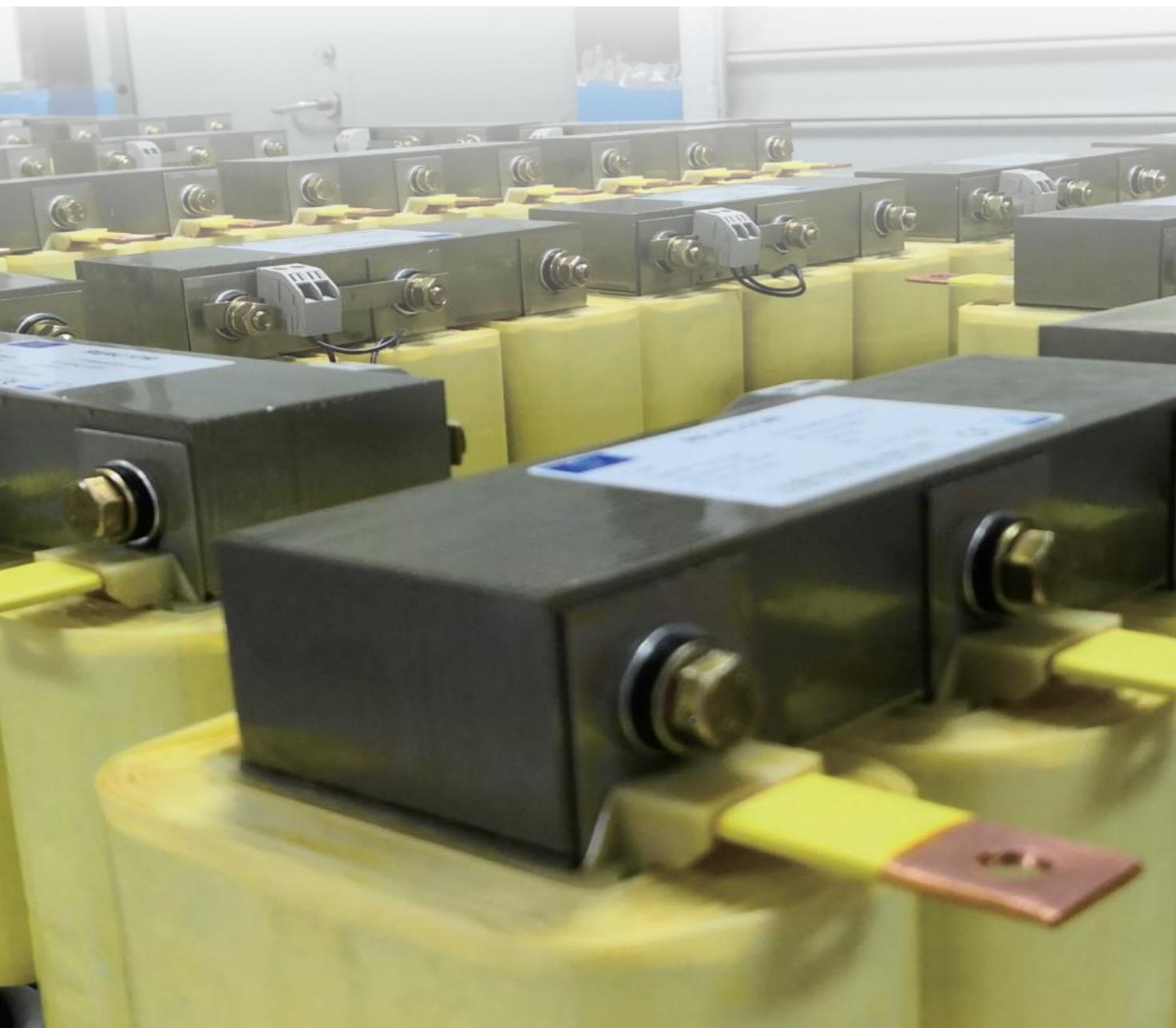
## Standard Series Reactors for Power Capacitors

Ordering Code	U <sub>N</sub> (V)	Q <sub>LC</sub> (kVar)	Q(kVar)	U <sub>C</sub> (V)	L <sub>N</sub> (mH)	I <sub>N</sub> (A)	I <sub>rms</sub> (A)	P	Weight(kg)
f <sub>N</sub> =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*4.148	28.9	32.6		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

Other specifications are available upon request.







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