

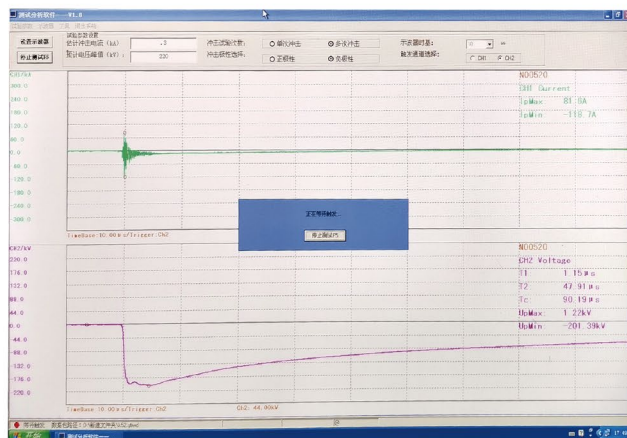


## >>> Medium voltage reactors for PFC

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 possesses the functions of increasing power factors and limiting harmonic current.

### Technical Data

Reference standard	EN 60076-6, UL 1446
Rated voltage	3kV to 35kV
Rated frequency	50Hz/60Hz
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	U3=0.5%U <sub>N</sub> ; U5=5%U <sub>N</sub> ; U7=5%U <sub>N</sub> ,
Inductance tolerance	-/+3%
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 or air core, multiple air gap
Winding material	Copper/Aluminum
Terminals	Copper bar
Approval marks	TUV,  





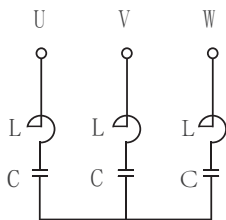
## Features

- ★ Very higher linearity
- ★ Lower temperature rising
- ★ Stand 25 times short circuit current in one second
- ★ VPI process control
- ★ Copper connections
- ★ Anti-dust non-wooden packing
- ★ EN standard type testing

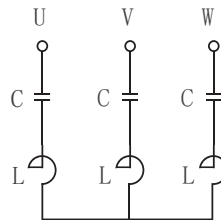
Air core inrush reactors for current limiting



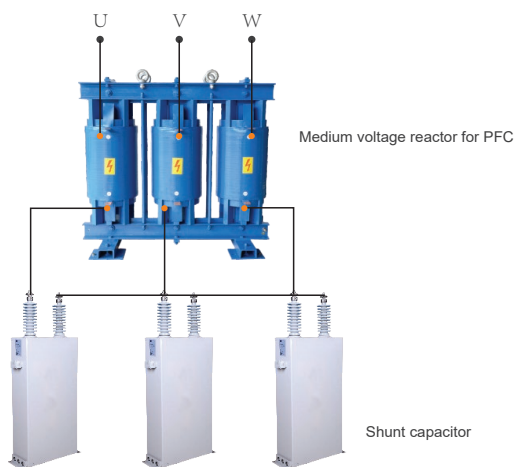
## Recommended Design



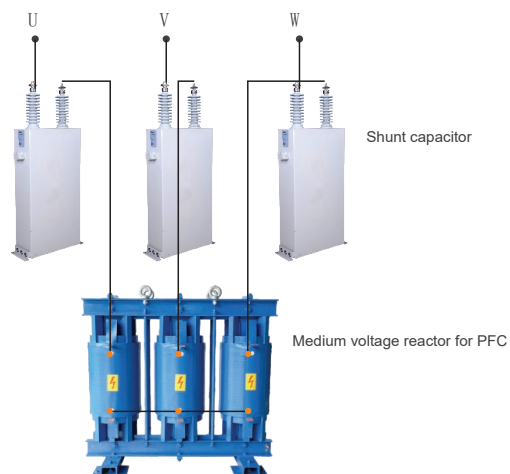
(a)



(b)



(a)



(b)

## Standard Reactors for Shunt Capacitors

Ordering Code	$U_N$ (kV)	$Q_{LC}$ (kVar)	$Q$ (kVar)	$U_C$ (kV)	$L_N$ (mH)	$I_N$ (A)	$I_{rms}$ (A)	P	Weight(kg)
$f_N=50\text{Hz}, 3\text{Phase}, \text{Aluminum wire winding}$									
LTHR3070150A-11KV	11	150	166	12	3*193.366	7.9	8.9	7%	180
LTHR3070300A-11KV		300	332		3*96.683	15.7	17.8		280
LTHR3070500A-11KV		500	554		3*58.010	26.2	29.7		340
LTHR3071000A-11KV		1000	1108		3*29.005	52.5	59.3		520
LTHR3071500A-11KV		1500	1662		3*19.337	78.7	89.0		860
LTHR3072000A-11KV		2000	2216		3*14.502	105	118.6		1130
LTHR3072500A-11KV		2500	2770		3*11.602	131.2	148.3		1220
LTHR3140100A-6.3KV	6.3	100	125	7.6	3*205.770	9.2	10.4	14%	160
LTHR3140300A-6.3KV		300	375		3*68.590	27.5	31.1		310
LTHR3140550A-6.3KV		550	688		3*37.413	50.4	57.0		460
LTHR3140900A-6.3KV		900	1126		3*22.863	82.5	93.2		800
LTHR3141750A-6.3KV		1750	2190		3*11.758	160.4	181.2		1160

Other specifications are available upon request.





Filter Reactors for Shunt Capacitors

Ordering Code	U <sub>N</sub> (kV)	L <sub>N</sub> (mH)	I <sub>N</sub> (A)	I <sub>rms</sub> (A)	Weight(kg)
f <sub>N</sub> =60Hz,3Phase,Aluminum wire winding					
LTHR3029040A-13.8KV	13.8	3*29.780	35	40	460
LTHR3014090A-13.8KV		3*14.890	75	90	650
LTHR3009125A-13.8KV		3*9.926	110	125	1000
LTHR3008140A-13.8KV		3*8.508	125	140	1000
LTHR3007164A-13.8KV		3*7.445	150	164	1050
LTHR3186020A-34.5KV	34.5	3*186.726	15	20	550
LTHR3093035A-34.5KV		3*93.363	30	35	760
LTHR3062050A-34.5KV		3*62.242	45	50	870
LTHR3046065A-34.5KV		3*46.681	55	65	1180
LTHR3037085A-34.5KV		3*37.345	70	85	1540

Other specifications are available upon request.

