



Fastron

Electronics

Fastron supplies a range of high quality and affordable Filtering Reactors, 400VAC, $p = 7\%$ class F types are kept in stock. Other ratings are available on request.

All our Filter Reactors come with 90 Deg thermal switches, instructions and use aluminium windings as standard. Copper wound types are available on request.

Our Reactors are designed for use in Power Factor Correction Capacitor Banks and to be connected in series with the capacitor.

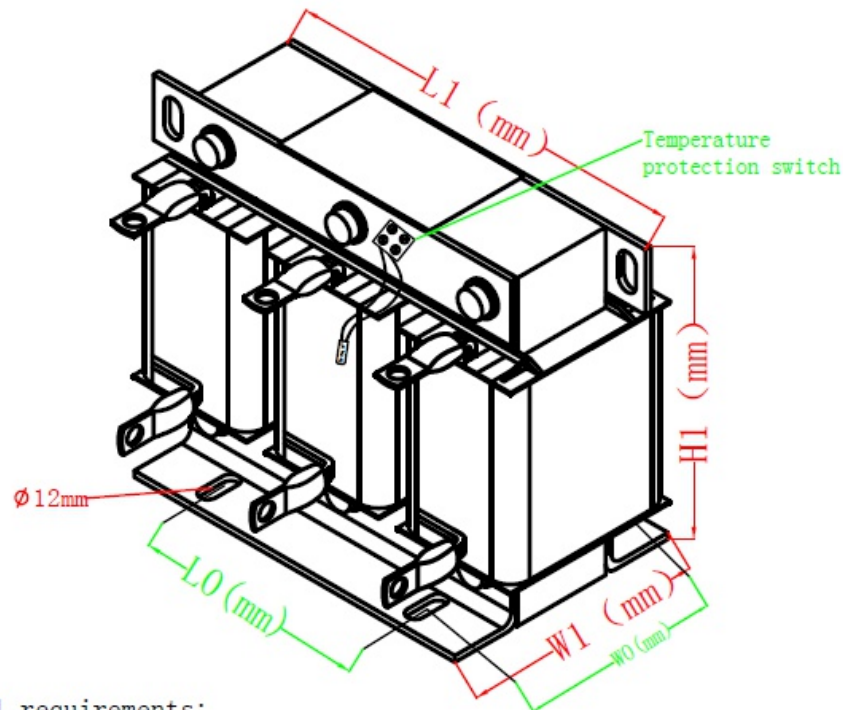
Technical Features

Electrical	Voltage	400V/525V
	Network Frequency	50/60Hz
	Nominal Power	12.5,25,40,50kvar
	Value of p%	7% (189Hz), 5.67 (210 / 252Hz) , 14 (134 / 160Hz)
	Type of Conductor	Aluminium/Copper(optional)
	Tolerance L	5%
	Linearity (5% L)	$1.8 \times I_n$
	Isolation Voltage	kV
	Maximum Room Temperature	-10 to 45 Deg C
	Internal isolation	Class F(155°C), Class H (180°C Optional)
Maximum Overload	Permanent	$1.17 \times I_n$
	Temporary	$2 \times I_n$
Safety	Protection Thermostat	Opens at 90 °C
	Degree Protection	IP00
	Installation	Indoor
Standards	EN-60289, IEC60076	

415VAC Filter Reactor Ratings Reactor Ratings

Part Number	Nominal Voltage 400VAC		Rated Voltage 525VAC	
	Inductance	Total uF	Inductance	Total uF
HF121-12/0.4-12.5-7%K	3.06mH	231uF	4.914mH	144uF
HF121-12/0.4-25-7%K	1.53mH	462uF	2.457mH	289uF
HF121-12/0.4-40-7%K	0.95mH	739uF	1.526mH	462uF
HF121-12/0.4-50-7%K	0.76mH	924uF	1.229mH	577uF
HF121-12/0.4-12.5-14%K	6.14mH	231uF	9.827mH	144uF
HF121-12/0.4-25-14%K	3.07mH	462uF	4.914mH	289uF
HF121-12/0.4-40-14%K	1.92mH	739uF	3.071mH	462uF
HF121-12/0.4-50-14%K	1.54mH	924uF	2.457mH	577uF

TOLERANCE: $\pm 5\text{mm}$



Technical requirements:

1. Rated Frequency: 50Hz/60Hz Phase: Three-phase Reactance K:7%
2. Distribution system voltage: 0.4kV, inductance L: $\pm 10\%$ mH
3. Distribution capacitor rated voltage: 0.45kV rated capacity: 12.5、25、50kvar
4. Insulation level: 4.5 kV/min, temperature resistance level: F
5. Noise: $\leq 45\text{dB}$, overload current capacity: continuous operation under power frequency plus harmonic current ≤ 1.35 times rated current.
6. Altitude: $\leq 2000\text{ M}$.
7. Operating ambient temperature: $-25+45^{\circ}\text{C}$, relative humidity: $\leq 85\%$ RH.
8. There are no harmful gases and inflammable and explosive materials around, and good ventilation and heat dissipation conditions should be provided.
9. Implementation criteria: GB/T 10229-1988 IEC 60076-6:2007

Model	L1 (mm)	W1 (mm)	H1 (mm)	Bottom Bolt Lo×Wo (mm)
HF121-12/0.45-50-7%K	262	180	215	150×110
HF121-12/0.45-40-7%K	262	180	215	150×110
HF121-12/0.45-25-7%K	240	155	195	135×110
HF121-12/0.45-12.5-7%K	210	135	170	110×85

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- Power Semiconductors
- Electrical Measurement
- Process Control

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