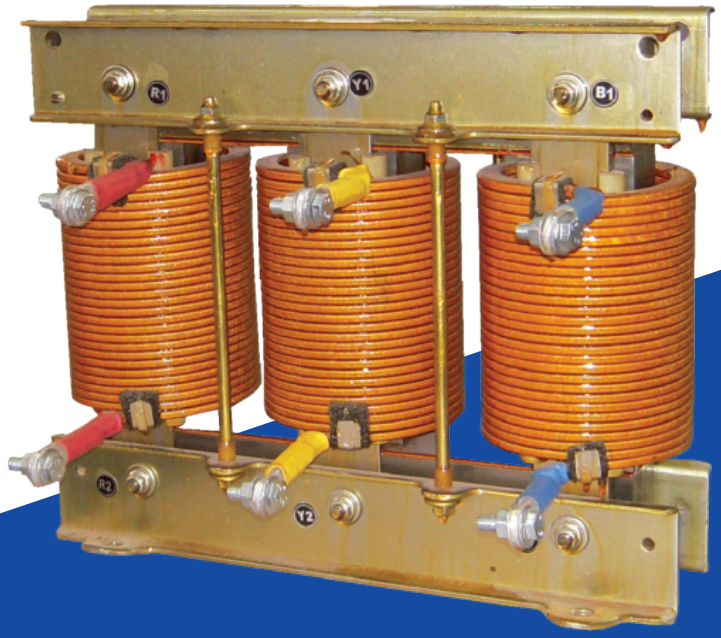
NEPTUNE

Harmonic Block Reactors



Description

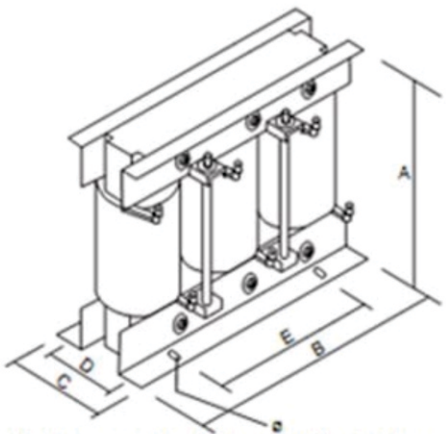
Neptune filter circuit are designed as three-phase reactors with an iron core and air gap. Harmonic Filter Reactors are made out of highest quality material and very stringent quality control. It has been designed with properties like low temperature rise and lower flux density so that it can operate in worst conditions of ambient and harmonic overloads. They offer very good degree of linearity. Cheaper and non-linear reactors may trigger undesirable chain phenomena during periods of operation with high harmonic values, such as reducing in the inductance with consequent increase in the resonance frequency of the LC group, which would drain off more harmonic current, further reducing its inductance and overload the reactor more and more. Reactors are available with filtering factor of 7% and 14% in 12.5, 25, 50 and 100 KVAR rating. Any other filtering factor and rating can be made on request.

Technical Specifications

#	Parameters
Standard Voltage (Un)	415/440/480V/550/690
Rated Voltage : 3 x 415V Rated (KVAr)	5,10,12.5, 25, 50 &100
Frequency	50 Hz
Capacitance Tolerance	-1000 V
Test Voltage	3000 V
Filtering factors / Tuning Freq.	7%, 189 Hz 14%, 134 Hz
Tolerance of inductance	±3%
Linearity (L> 0.95 x Ln)	200%
Ambient temperature	+ 55 C
Insulation class	H
Cooling method	Natural cooling (AN)
Installation	Indoor
Protection degree	IP 00
Operating altitude	1000m above sea level at rated operation
Temp. sensor (normally closed)	155 C
Reference standard	IEC 61558-2-20

	KVAR Rating	A	B	C	D	E	ø
7%	12.5	225	260	115	86	180	10x15
	25	260	290	120	100	215	10x13
	50	300	360	136	102	272	10x16
	100	345	400	150	118	272	13x18

	KVAR Rating	A	B	C	D	E	ø
14%	12.5	275	340	130	96	272	10x16
	25	300	360	142	106	272	9x14
	50	345	400	167	123	272	9x14
	100	400	500	190	145	350	13x17



Specifications are subject to change without notice.
For exact mounting dimension contact our Sales Office.
Other rating and filtering factors are available on request.

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