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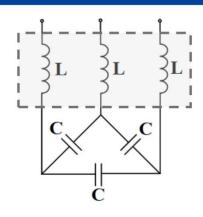


3-phase Detuned Reactor for Capacitor Bank

Detuned Reactors prevent harmonic amplification caused due to resonance and avoid the risk of overloading capacitors, thereby significantly reducing voltage and current harmonic distortion in the network. it is common to insert reactors in series with capacitor banks. The reactor also by its nature will safeguard capacitor and associated switch gears against switching inrush, which other may damage capacitors, circuit breakers and contactors.



Typical Elecetrical Schematic



Approvals



Features and Benefits

- eliminates harmonic amplification
- enhances the life of capacitors by reducing voltage and thermal stress due to harmonics
- prevents the constant nuisance of input fuse blowing or circuit breaker tripping
- Reduces over heating of the transformer, cables, switchgear etc. caused due to harmonic amplification
- Reduces the harmonic current in the electrical supply system
- Addresses the harmonic problems created by non-linear loads
- Improves Power Factor in harmonic rich environment

Technical Features

Electrical Features	Voltage	400 V				
	Frequency	50 Hz				
	Nominal Power	12.5 - 50 kvar 5.67%, 7%, 14% Copper ± 5 %				
	Value of p%					
	Conductor Type					
	Tolerance L					
	Linearity (5 % L)	1.6 × In 3 kV -10 +45 °C Class F (155 °C)				
	Isolation Voltage					
	Room Temperature					
	Internal Isolation					
Maximum Overload	Permanent	1.2 × In				
	Temporary (1 min)	2 × In				
Safety	Protection	Overtemperature protection switch				
	Degree of Protection	IP00				
	Installation	Indoor				



400 Vac, 50 Hz, f resonance = 210 Hz / p = 5.67%

Type	Freq. [Hz]	KVAR	L [mH]	In [A]	Weight [kg]
RDHC-12.5-400-5.67	50	12.5	2.36	18	9.0
RDHC-25-400-5.67	50	25	1.19	38	15.6
RDHC-50-400-5.67	50	50	0.59	75	27.1

400 Vac, 50 Hz, f resonance = 189 Hz / p = 7%

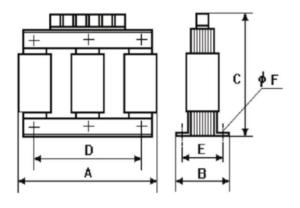
Туре	Freq. [Hz]	KVAR	L [mH]	In [A]	Weight [kg]
RDHC-12.5-400-7	50	12.5	3.06	18	11.5
RDHC-25-400-7	50	25	1.53	38	17.4
RDHC-50-400-7	50	50	0.77	75	31.8

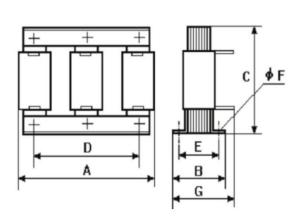
400 Vac, 50 Hz, f resonance = 134 Hz / p = 14%

Type	Freq. [Hz]	KVAR	L [mH]	In [A]	Weight [kg]
RDHC-12.5-400-14	50	12.5	6.4	18	17.0
RDHC-25-400-14	50	25	3.22	38	32.6
RDHC-50-400-14	50	50	1.59	75	54.9

Dimensions

Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]
RDHC-12.5-400-5.67	190	105	170	120	75.0	8	
RDHC-25-400-5.67	265	120	210	168	80.0	10	130
RDHC-50-400-5.67	310	135	250	200	95.0	10	150
RDHC-12.5-400-7	230	105	200	144	75.0	8	
RDHC-25-400-7	265	125	210	168	85.0	10	135
RDHC-50-400-7	310	145	250	200	105.0	10	160
RDHC-12.5-400-14	230	125	200	144	95.0	8	277
RDHC-25-400-14	310	145	250	200	105.0	10	155
RDHC-50-400-14	370	160	300	240	120.0	10	175





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