



Three-phase Filter Reactor

Design	Three-phase, iron-core with air gaps, PolyGap(R) core design
Impregnation	Complete unit vacuum-overpressure impregnated with varnish acc. to temperature class H and temperature hardened in furnace
Harmonic load design	Voltages distortion based on UN : $u_1=106\%$ $u_3=0.5\%$ $u_5=5\%$ $u_7=5\%$

Technical Data

No. of phases		3
Rated voltage	Un/V	600
Rated frequency	fn/Hz	60
Reactive power	Nc/kVAr	53.8
Capacitor (star connection)	Cy/ μ F	368.4
Reactance factor	p/%	7
Resonance frequency	fr/Hz	226.78
Rated inductivity	Ln/mH	3 x 1.337
Negative tolerance	%	-2
Positive tolerance	%	+3
RMS current	Irms/A	57.6
Limit of linearity	Ilin/A	96
Losses of fundamental	Nv1/W	170
Total losses	Nvsum/W	230
Mass /kg	m/kg	28

Current spectrum

88679

n	f/Hz	I/A	U/UN /%	Voltage@reactor/V
1	60	54.84	106	27.6
3	180	1.95	0.5	2.9
5	300	16.04	5	40.4
7	420	6.93	5	24.4



Type number: 1047348

Customer part name: DTR-07-600-60-K050

Operating conditions

Protection class		IP00, Indoor operation	
Operation mode		Continuous mode	
Duty cycle	%	100	
Maximum levitation	masl	1,000	
Type of cooling		AN	natural convection
Isolation class		T50/H	
Minimum ambient temperature	Tamin/°C	5	no condensing, no ice
Maximum ambient temperature	Tamax/°C	50	
Allowed temperature rise	dT/K	115	utilized acc. to isolation class
Temperature sensor		Yes	
Temperature sensor middle coil		T10/180 NC (H)	

Standards

IEC standards	IEC/EN60076-6 VDE0532-76-6		
UL approval	UL file E173113 class H		
Seperate source voltage	UAC/kV (1 min)	3	

Mechanical characteristics

Winding material Cu/Al	Al		
Terminal 1	Cu bar 20 x 3 mm ² / 9mm		
Terminal 2	Cu bar 20 x 3 mm ² / 9mm		

Approximate dimensions

88675

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Description	Value
A/mm	260
B/mm	240
C/mm	147
D/mm	200
E/mm	150
F/mm	88
G/mm	102
H/mm	132
d1/mm	10
d2/mm	11
d3/mm	11

