Datasheet Vorläufige Daten/Preliminary Data

Type number: 1047872

Customer part name: DTR-07-600-60-K025

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 : u1=106% u3=0.5% u5=5% u7=5%

Technical Data

No. of phases		3
Rated voltage	Un/V	600
Rated frequency	fn/Hz	60
Reactive power	Nc/kVAr	26.9
Capacitor (star connection)	Cy/µF	184.2
Reactance factor	p/%	7
Resonance frequency	fr/Hz	226.78
Rated inductivity	Ln/mH	3 x 2.674
Negative tolerance	%	-2
Positive tolerance	%	+3
RMS current	Irms/A	28.8
Limit of linearity	Ilin/A	48
Losses of fundamental	Nv1/W	100
Total losses	Nvsum/W	150
Mass /kg	m/kg	22

Current spectrum

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n	f/Hz	I/A	U/UN /%	Voltage@reactor/V
1	60	27.42	106	27.6
3	180	0.98	0.5	2.9
5	300	8.02	5	40.4
7	420	3.47	5	24.4

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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	H
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 mm² / 9mm
Terminal 2	Cu bar 20 x 3 mm² / 9mm

Approximate dimensions

90157 zeichnungen/pre/CU1_oPE_mT_1s_verlaengert.JPG

Description	Value
A/mm	260
B/mm	185
C/mm	143
D/mm	200
E/mm	150
F/mm	88
G/mm	102
H/mm	132
d1/mm	10
d2/mm	11
d3/mm	11