Datasheet Vorläufige Daten/Preliminary Data

Type number: 1048219

Customer part name: DTR-07-480-60-K100

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	480
Rated frequency	fn/Hz	60
Reactive power	Nc/kVAr	108
Capacitor (star connection)	Cy/µF	1,151.3
Reactance factor	p/%	7
Resonance frequency	fr/Hz	226.78
Rated inductivity	Ln/mH	3 x 0.428
Negative tolerance	%	-2
Positive tolerance	%	+3
RMS current	Irms/A	144
Limit of linearity	Ilin/A	239
Losses of fundamental	Nv1/W	230
Total losses	Nvsum/W	330
Mass /kg	m/kg	50

Current spectrum

90902

n	f/Hz	I/A	U/UN /%	Voltage@reactor/V
1	60	137.1	106	22.1
3	180	4.88	0.5	2.4
5	300	40.09	5	32.3
7	420	17.32	5	19.6

Datasheet Vorläufige Daten/Preliminary Data

Type number: 1048219

Customer part name: DTR-07-480-60-K100

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

90898 zeichnungen/pre/CU2_oPE_mT_1s_verlaengert.JPG

Description	Value
A/mm	300
B/mm	265
C/mm	191
D/mm	224
E/mm	150
F/mm	100
G/mm	147
H/mm	175
d1/mm	10
d2/mm	11
d3/mm	11