



**Three-phase Filter Reactor**

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

**Technical Data**

<b>No. of phases</b>		3
<b>Rated voltage</b>	Un/V	600
<b>Rated frequency</b>	fn/Hz	60
<b>Reactive power</b>	Nc/kVAr	108
<b>Capacitor (star connection)</b>	Cy/ $\mu$ F	736.8
<b>Reactance factor</b>	p/%	7
<b>Resonance frequency</b>	fr/Hz	226.78
<b>Rated inductivity</b>	Ln/mH	3 x 0.668
<b>Negative tolerance</b>	%	-2
<b>Positive tolerance</b>	%	+3
<b>RMS current</b>	Irms/A	115.2
<b>Limit of linearity</b>	Ilin/A	191
<b>Losses of fundamental</b>	Nv1/W	260
<b>Total losses</b>	Nvsum/W	370
<b>Mass /kg</b>	m/kg	49

**Current spectrum**

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n	f/Hz	I/A	U/UN /%	Voltage@reactor/V
1	60	109.68	106	27.6
3	180	3.9	0.5	2.9
5	300	32.08	5	40.4
7	420	13.86	5	24.4

# Datasheet **Vorläufige Daten/Preliminary Data**



Type number: 1047350

Customer part name: DTR-07-600-60-K100

## Operating conditions

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

## Standards

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

## Mechanical characteristics

<b>Winding material Cu/Al</b>	Al		
<b>Terminal 1</b>	Cu bar 20 x 3 mm <sup>2</sup> / 9mm		
<b>Terminal 2</b>	Cu bar 20 x 3 mm <sup>2</sup> / 9mm		

## Approximate dimensions

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zeichnungen/pre/CU2\_oPE\_mT\_1s\_verlaengert.JPG

Description	Value
A/mm	300
B/mm	295
C/mm	175
D/mm	224
E/mm	150
F/mm	100
G/mm	134
H/mm	162
d1/mm	10
d2/mm	11
d3/mm	11

