

Windings	1	2	3	4	5	6	7	8	9	10
Groups	1	1	2	3						
Circuits	4	4	4	4						
Connection	1	1	1	1						
H/Voltg/A	1 115 0	1 115 0	1 12.4 0	1 12.4 0						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
H/Curren/A	.	.	1 5850 0	1 5850 0						
	.	.	0 4980 0	0 4980 0						
	.	.	2 2880 0	2 2880 180						
	.	.	4 1590 180	4 1590 0						
	.	.	5 1170 0	5 1170 0						
Time1 min.	60	60	60	60						
Load1 *	1	1	1	1						
Time2 min.	0	0	60	60						
Load2 *	0	0	1	1						
Sectors	1	1	1	1						
Ser./Para.	1	1	1	1						
Wire file	6	6	6	6						
Cu/Al	1	1	1	1						
In/Layer μ	100	100	100	100						
Type/Tran.	10	10	10	10						
Typ/L/C mm	3 2 12	2 2 20	2 1 20	2 1 12						
Typ/L/C mm	3 2 12	2 2 20	2 1 20	2 1 12						
Typ/L/I mm	1 1 1	1 1 1	1 1 1	1 1 1						
Margin mm	20	20	20	20						
RacRdc	1.3	1.3	1.3	1.3						

Frequency Hz: 50		Core select. -: Created		Cooling medium : Air		CHANGED IN TEST		Frequency Hz: 50	
Criterion : Ucca		Core file : LTCM_F10_3_L		Amb. temperature °C: 40		Ambient temperature C: 40		Convection outside *: 0.8	
Ucc-voltage act. %: 1		Core name : Created 225/		Convection outside *: 0.8		Convection/channels *: 0.8		Emission *: 1	
Ucc-voltage tot. %: 8		Core assembly: (4) #Modul Co		Convection inside *: 0.8		Ventilation/outside m/s: 0		Ventilation/channel m/s: 0	
Temperat. rise °K: 100		With hole -: No		Emission *: 1		Rth-Insulation *: 1		Rth-Uarnish *: 1	
Max. Fe losses %: 1		Steel file : STEEL1.RDS		Airflow outside m/s: 0		Rth-Compound *: 1		Fillfactor/channels %: 80	
No-load factor %: 1		Steel name : M 165-35 =>M		Airflow inside m/s: 0		Uarnish in windings %: 10		Uarnish/gaps/stomack %: 10	
I ⁱⁿ /I ^{nom} : 10		Induction T: 1.55		Min.oil temp.rise °K: 0		Stomack mm: 1.00		Gap mm: 0.10	
I _{rms} on/I _{rms} nom : 10		W/kg *: 1							
Losses at temp.°C: 115		UAr/kg *: 1		Channel fill factor %: 80					
HU-Test volta. kU: 4		Airgap *: 1		Uarnish in windings %: 10					
LU-Test volta. kU: 4		f/Fn-Factor *: 1		Uarnish in gaps %: 10					
HU-Mom.voltage kU: 0.4		Fill factor : 1		Rth-uarnish *: 1					
LU-Testvoltage kU: 4		Annealed -: No		Rth-compound *: 1					
Cu Price per kg : 2				Rth-insulation *: 1					
Al Price per kg : 1				Coil insulation mm: 0					
Fe Price per kg : 1				Stomach mm: 1					
				Gap mm: 0.1					
				Min.distance W-W mm: 0					
				Flange mm: 0					

#*0

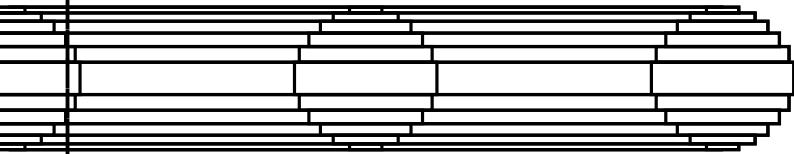
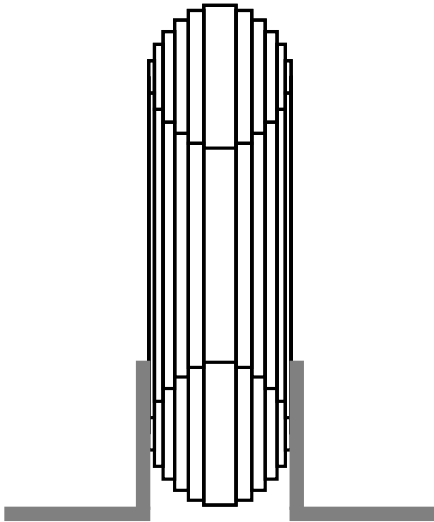
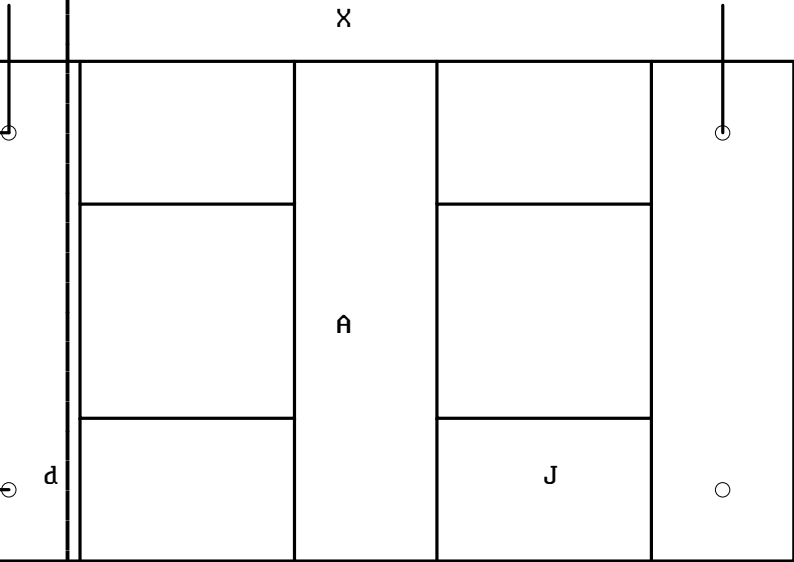
DIAGNOSIS

Page 0

Name	:Created 225/1000x550			
Steel	:M 165-35 =>M6 0.014" 35G165			
Number of phases	-:3			
Number of legs	-:3			
Wight total/Cu/Fe	kg:1420.8	=426.6	+994	
Max.build of windings	%:71.5			
max.wires in parrallel	:3	=1	X 3	/6
Induction on load	T:1.622			
No-load induction	T:1.630			
Max. CuAl-dT on load	°K:94.4			
Max. Fe-dT on load	°K:50.5			
Regulation	%:1.067			
Short-circuit voltage cold	%:4.79	Ucx=4.73	Ucr=1.256	
Efficiency	%:98.536			
Iinrush/Inom max/rms	*: 7.26	/ 5.35		
No-load onrms current factor	%: 3.6			

Core file name	: LTCM_EI0_3_L_1.USR	Fe-File name	: STEEL1.RDS
Core name	: Created 225/1000x550	Fe-Name	: M 165-35 =>M6 0.014" 3
Core type	: 3EI	Frequency	Hz: 50
Type of windings	: round	Remanence-Factor	*: 0.35
Number of legs	: 3	W/kg-Factor	*: 1
Core assembly	: (4) &Modul Co	UAr/kg-Factor	*: 1
Leg/Diameter	cm: 22.56	Gap-Factor	*: 1
Window width	cm: 33	f/fn-Factor	*: 1
Window height	cm: 33	Fillfactor	*: 1
Stack	cm: 22	Annealed	-: No
Cross section	cm^2: 354.4		
Weight total	kg: 994.2		
With holes	-: Yes	Chassis	-:
Brackets	-: L-T&B	Vertical/Horizontal	-:

		Steps	1	2	3	4	5	6	7	8	9	10
X-Width	cm: 110	A-Leg	cm:22	20.5	17.5	14	10	5	0	0	0	0
Y-Height	cm: 55	J-Yoke	cm:22	20.5	17.5	14	10	5	0	0	0	0
d_Hole	cm: 2.2	R-Rearyoke	cm:0	0	0	0	0	0	0	0	0	0
h-Distance	cm: 2.2	S-Stack	cm:5	2.4	2.1	1.8	1.3	0.9	0	0	0	0
L-Laenght	cm: 22	Number lamin.	:									
Z-Width	cm: 0	Weight	kg:									



Windings	1	2	3	4	5	6	7	8	9	10
Groups-Circuits	1-Y	1-Y	2-Y	3-Y						
Connection	ser.	ser.	ser.	ser.						
Turns per leg	9.0	9.0	1.0	1.0						
Build	%									
Weight per leg	kg									
WIRE										
Type	Foil	Foil	Foil	Foil						
Thicknes	mm									
Width	mm									
WG-thicknes										
WG-width										
Al/Cu	Cu	Cu	Cu	Cu						
STRAND/LITZ							7			
Thickne insula.	mm									
Width insulata.	mm									
Parallel wires										
side by side										
one upon the other										
Transposition	Cyl	Cyl	Cyl	Cyl						
Cross section	mm^2									
SECTOR										
Number	1	1	1	1						
Serie/Parallel	ser.	ser.	ser.	ser.						
Turns	9	9	1	1						
Turns/Layer	1	1	1	1						
Layers	9	9	1	1						
Insul./Layer	µm									
Transposition	None	None	None	None						
Thicknes	mm									
Height	mm									
Heights Wind/Sect	9	9	1	1						
SPACES/CHANNELS/INS.										
C/I Outside	WICW	WCW	WCW	WCW						
Insulation	mm									
Channel	mm									
C/I Inside	WICW	WCW	WCW	WCW						
Insulation	mm									
Channel	mm									
C/I Horizontal	II	II	II	II						
Sector-Sector	mm									
Turn-Turn	mm									
Distance to yoke	mm									

Coil insulation mm: Diatancw coil to coil : 92.39

D1i/D1e: 253.6 273.4

D2i/D2e: 313.4 333.2

D3i/D3e: 373.2 403.4

D4i/D4e: 427.4 457.6

D5i/D5e: /

D6i/D6e: /

D7i/D7e: /

D8i/D8e: /

