

Windings	1	2	3	4	5	6	7	8	9	10
Groups	1	2	2	1						
Circuits	5	4	4	5						
Connection	1	2	2	1						
H/Voltg/A	1 200 0	1 230 0	1 230 0	1 200 0						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
H/Curren/A	.	1 330 0	1 330 0	.						
	.	11 148 0	11 148 0	.						
	.	0	0	.						
	.	.	.	.						
	.	.	.	.						
Time1 min.	60	60	60	60						
Load1 *	1	1	1	1						
Time2 min.	0	60	60	0						
Load2 *	0	1	1	0						
Sectors	1	2	2	1						
Ser./Para.	1	3	3	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 20	2 1 20	2 1 20	2 2 20						
Typ/L/C mm	1 2 15	2 1 15	2 1 15	2 2 15						
Typ/L/I mm	1 1 1	1 10 1	1 10 1	1 1 1						
Margin mm	25	25	25	25						
RacRdc	1.3	1.3	1.3	1.1						

Frequency Hz: 50	Core select. -: Created	Cooling medium : Air	CHANGED IN TEST
Criterion : Ucca	Core file : LTCM_EI_3_L_	Amb. temperature °C: 60	Frequency Hz: 50
Ucc-voltage act. %: 1.2	Core name : Created 175/	Convection outside *: 0.8	Ambient temperature C: 60
Ucc-voltage tot. %: 4.5	Core assembly: (6) 45° S&tri	Convection inside *: 0.8	Convection outside *: 0.8
Temperat. rise °K: 80	With hole -: No	Emission *: 1	Convection/channels *: 0.8
Max. Fe losses %: 1	Steel file : STEEL1.RDS	Airflow outside m/s: 0	Emission *: 1
No-load factor %: 1	Steel name : M 165-35 =>M	Airflow inside m/s: 0	Ventilation/outside m/s: 0
I ⁱⁿ /I ^{nom} : 10	Induction T: 1.3	Min.oil temp.rise °K: 0	Ventilation/channel m/s: 0
I ^{rms} on/I ^{rms} nom : 10	W/kg *: 1		Rth-Insulation *: 1
Losses at temp.°C: 115	UAr/kg *: 1		Rth-Varnish *: 1
HU-Test volta. kU: 4	Airgap *: 1	Channel fill factor %: 80	Rth-Compound *: 1
LU-Test volta. kU:	f/Fn-Factor *: 1	Varnish in windings %: 10	Fillfactor/channels %: 80
HU-Mom.voltage kU: 0.4	Fill factor : 1	Varnish in gaps %: 10	Varnish in windings %: 10
LU-Testvoltage kU:	Annealed -: Yes	Rth-varnish *: 1	Varnish/gaps/stomack %: 10
Cu Price per kg : 2		Rth-compound *: 1	Stomack mm: 1.00
Al Price per kg : 1		Rth-insulation *: 1	Gap mm: 0.10
Fe Price per kg : 1		Coil insulation mm: 0	
		Stomach mm: 1	
		Gap mm: 0.1	
		Min.distance W-W mm: 20	
		Flange mm: 0	

#*0

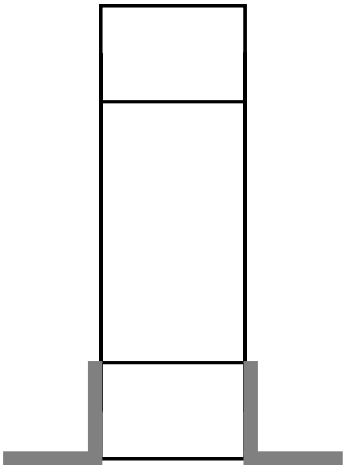
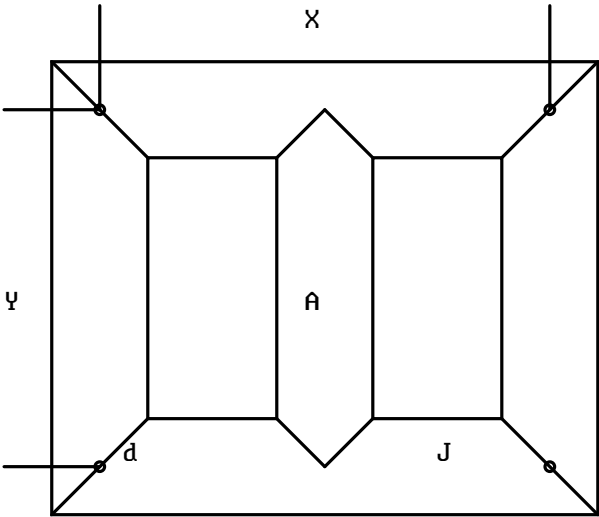
DIAGNOSIS

Page 0

Name	:Created 175/263
Steel	:M 165-35 =>M6 0.014" 35G165
Number of phases	-:3
Number of legs	-:3
Wight total/Cu/Fe	kg:1612.4 =452.1 +1160
Max.build of windings	%:76.8
max.wires in parrallel	:1 =1 X 1 /6
Induction on load	T:1.266
No-load induction	T:1.272
Max. CuAl-dT on load	°K:48.0
Max. Fe-dT on load	°K:40.0
Regulation	%:0.899
Short-circuit voltage cold	%:1.48 Ucx=1.35 Ucr=1.022
Efficiency	%:98.862
Iinrush/Inom max/rms	*: 5.20 / 3.63
No-load current factor	%: 0.2

Core file name	: LTCM_EI_3_L_1.USR	Fe-File name	: STEEL1.RDS
Core name	: Created 175/263	Fe-Name	: M 165-35 =>M6 0.014" 3
Core type	: 3EI	Frequency	Hz: 50
Type of windings	: oval/rectangular	Remanence-Factor	*: 0.35
Number of legs	: 3	W/kg-Factor	*: 1
Core assembly	: (6) 45° S&tri	UAr/kg-Factor	*: 1
Leg/Diameter	cm: 17.5	Gap-Factor	*: 1
Window width	cm: 23.5	f/fn-Factor	*: 1
Window height	cm: 47.5	Fillfactor	*: 1
Stack	cm: 26.3	Annealed	-: Yes
Cross section	cm^2: 444.1		
Weight total	kg: 1160.		
With holes	-: Yes	Chassis	-:
Brackets	-: L-T&B	Vertical/Horizontal	-:

		Steps	1	2	3	4	5	6	7	8	9	10
X-Width	cm: 82	A-Leg	cm:17.5	0	0	0	0	0	0	0	0	0
Y-Height	cm: 65	J-Yoke	cm:17.5	0	0	0	0	0	0	0	0	0
d_Hole	cm: 1.75	R-Rearyoke	cm:0	0	0	0	0	0	0	0	0	0
h-Distance	cm: 1.75	S-Stack	cm:26.3	0	0	0	0	0	0	0	0	0
L-Laenght	cm: 17.5	Number lamin.	:									
Z-Width	cm: 0	Weight	kg:									



Windings	1	2	3	4	5	6	7	8	9	10
Groups-Circuits	1-D	2-Y	2-Y	1-D						
Connection	ser.	par.	par.	ser.						
Turns per leg	16.0	18.0	18.0	16.0						
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	2	2	1						
Serie/Parallel	ser.	mixed	mixed	ser.						
Turns	16	9	9	16						
Turns/Layer	1	1	1	1						
Layers	16	9	9	16						
Insul./Layer	µm									
Transposition	None	None	None	None						
Thicknes	mm									
Height	mm									
Heights Wind/Sect	16	9	9	16						
SPACES/CHANNELS/INS.										
C/I Outside	WICW	WCW	WCW	WCW						
Insulation	mm									
Channel	mm									
C/I Inside	WIW	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:
D1i/D1e: 324.9 347.3
D2i/D2e: 387.3 407.1
D3i/D3e: 447.1 466.9
D4i/D4e: 506.9 529.3
D5i/D5e: /
D6i/D6e: /
D7i/D7e: /
D8i/D8e: /

Diatancw coil to coil : 54.60

