	1	2	3	4	5	6	7	8	9	10
Windings	1	2	3	4						
Groups	2	1	1	3						
Circuits	4	5	5	4						
Connection	1	1	1	1						
H/Voltag/A	1 115 0	1 200 0	1 200 0	1 115 0						
H/Curren/A	1 300 0			1 300 0						
Time1 min.	60	60	60	60						
Load1 *	1	1	1	1						
Time2 min.	60	0	0	60						
Load2 *	1	0	0	1						
Sectors	1	1	1	1						
Ser./Para.	1	1	1	1						
Wire file	5	5	5	5						
Cu/Al	1	1	1	1						
In/Layer µ	100	100	100	100						
Type/Tran.	10	10	10	10						
Typ/I/C mm	1 2 15	1 1 15	5 1 20	1 1 15						
Typ/I/C mm	1 2 15	1 1 15	1 1 15	1 1 15						
Typ/I/I mm	1 1 1	1 1 1	1 1 1	1 1 1						
Margin mm	12	12	12	12						
RacRdc	1.2	1.2	1.2	1.2						

				CHANGED IN TEST
Frequency Hz: 50	Core select. -: Selecte	Cooling medium : Air	Frequency Hz: 50
	Core file : LTCM_EI_3_L_	Amb. temperature °C: 40	Ambient temperature C: 40
Criterion : Ucca	Core name : EI3P 500/100	Convection outside *: 0.8	Convection outside *: 0.8
Ucc-voltage act. %: 4	Core assembly-: (1) &Interlea	Convection inside *: 0.8	Convection/channels *: 0.8
Ucc-voltage tot. %: 5	With hole -: No	Emission *: 1	Emission *: 1
Temperat. rise °K: 80		Airflow outside m/s: 0	Ventilation/outside m/s: 0
Max. Fe losses %: 1	Steel file : STEEL1.RDS	Airflow inside m/s: 0	Ventilation/channel m/s: 0
No-load factor %: 1	Steel name : 35G155 (50Hz	Min.oil temp.rise °K: 0	Rth-Insulation *: 1
I^in/I^nom : 10	Induction T: 1.7		Rth-Varnish *: 1
Irms on/Irms nom : 10	W/kg *: 1		Rth-Compound *: 1
	VAr/kg *: 1	:	Fillfactor/channels %: 80
Losses at temp.°C: 115	Airgap *: 1	Channel fill factor %: 80	Varnish in windings %: 100
HV-Test volta. kV: 4	f/fn-Factor *: 1	Varnish in windings %: 100	Varnish/gaps/stomack %: 100
LV-Test volta. kV:	Fill factor : 1	Varnish in gaps %: 100	Stomack mm: 0.00
HV-Nom.voltage kV: 0.4	Annealed -: No	Rth-varnish *: 1	Gap mm: 0.10
LV-Testvoltage kV:		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: 0	
		Gap mm: 0.1	
		Min.distance W-W mm: 0	
		Flange mm: 0	

#*0 DIAGNOSIS Page 0

Name :EI3P 500/100
Steel :35G155 (50Hz 1.7T<1.55W/kg/800A/m<1.83T)
Number of phases -:3
Number of legs -:3

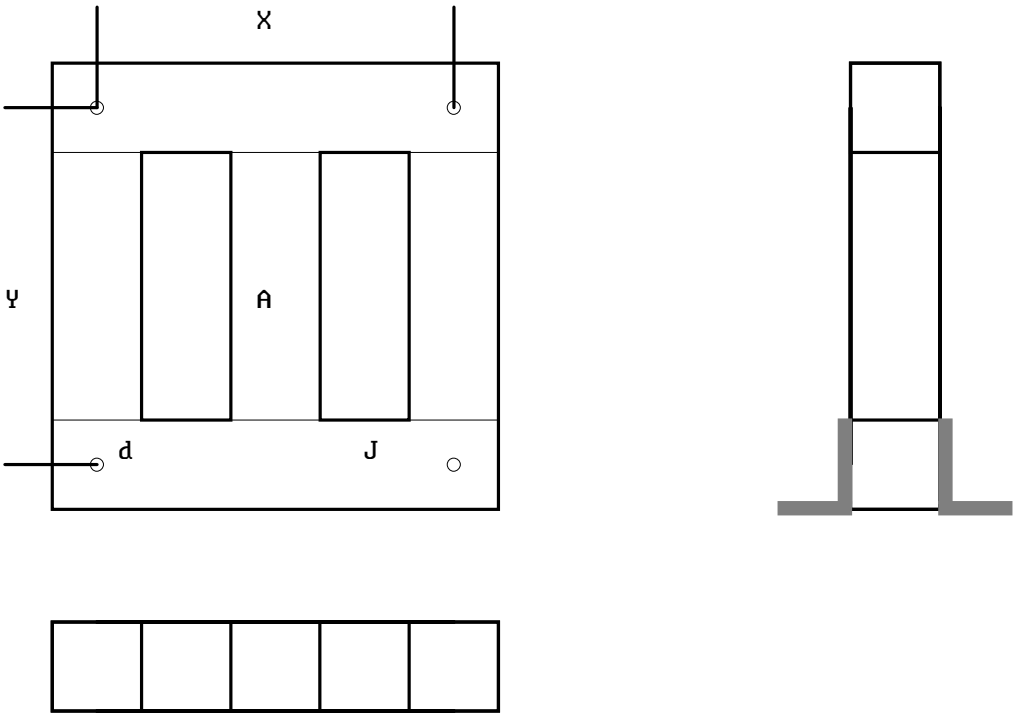
Wight total/Cu/Fe kg:243.7 =103.4 +140
Max.build of windings %:71.3
max.wires in parrallel :2 =2 X 1 /2

Induction on load T:1.696
No-load induction T:1.732

Max. CuAl-dT on load °K:90.8
Max. Fe-dT on load °K:80.4
Regulation %:4.969
Short-circuit voltage cold %:3.28 Ucx=1.33 Ucr=4.360
Efficiency %:95.562
Iinrush/Inom max/rms *: 5.63 / 4.15
No-load current factor %: 4.6

Core file name	: LTCM_EI_3_L_1_Gayrad.U	Fe-File name	: STEEL1.RDS
Core name	: EI3P 500/100	Fe-Name	: 35G155 (50Hz 1.7T<1.55
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	: (1) &Interlea	VAr/kg-Factor *:	1
Leg/Diameter cm	: 10	Gap-Factor *:	1
Window width cm	: 10	f/fn-Factor *:	1
Window height cm	: 30	Fillfactor *:	1
Stack cm	: 10	Annealed -:	No
Cross section cm^2	: 96.50		
Weight total kg	: 140.2		
With holes -:	Yes	Chassis -:	
Brackets -:	L-T&B	Vertical/Horizontal-:	

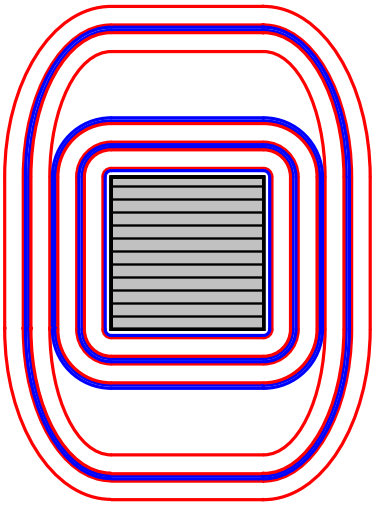
X-Width cm: 40	Stufen	1	2	3	4	5	6	7	8	9	10
Y-Height cm: 40	A-Leg cm:	10	0	0	0	0	0	0	0	0	0
d_Hole cm: 1.5	J-Yoke cm:	10	0	0	0	0	0	0	0	0	0
h-Distance cm: 0.5	R-Rearyoke cm:	0	0	0	0	0	0	0	0	0	0
L-Laenght cm: 8	S-Stack cm:	10	0	0	0	0	0	0	0	0	0
	Number lamin. :										
	Weight kg:										



Windings	1	2	3	4	5	6	7	8	9	10
Groups-Circuits	3-Y	3-Y	3-Y	3-Y	3-Y	3-Y	3-Y	3-Y	3-Y	3-Y
Connection	ser.	ser.	ser.	ser.	ser.	ser.	ser.	ser.	ser.	ser.
Turns per leg	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
Build %	71.27	71.27	71.27	71.27	71.27	71.27	71.27	71.27	71.27	71.27
Weight per leg kg	10.33	10.33	10.33	10.33	10.33	10.33	10.33	10.33	10.33	10.33
WIRE										
Type	flat	flat	flat	flat	flat	flat	flat	flat	flat	flat
Thicknes mm	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
Width mm	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
WG-thicknes	24	24	24	24	24	24	24	24	24	24
WG-width	11	11	11	11	11	11	11	11	11	11
Al/Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
STRAND/LITZ							7			
Thickne insula. mm	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46
Width insulata. mm	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
Parallel wires	2	2	2	2	2	2	2	2	2	2
side by side	2	2	2	2	2	2	2	2	2	2
one upon the other	1	1	1	1	1	1	1	1	1	1
Transposition	Cyl	Cyl	Cyl	Cyl	Cyl	Cyl	Cyl	Cyl	Cyl	Cyl
Cross section mm^2	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
SECTOR										
Number	1	1	1	1	1	1	1	1	1	1
Serie/Parallel	ser.	ser.	ser.	ser.	ser.	ser.	ser.	ser.	ser.	ser.
Turns	33	33	33	33	33	33	33	33	33	33
Turns/Layer	11.18	11.18	11.18	11.18	11.18	11.18	11.18	11.18	11.18	11.18
Layers	2.950	2.950	2.950	2.950	2.950	2.950	2.950	2.950	2.950	2.950
Insul./Layer µm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Transposition	None	None	None	None	None	None	None	None	None	None
Thicknes mm	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58
Height mm	276.00	276.00	276.00	276.00	276.00	276.00	276.00	276.00	276.00	276.00
Heights Wind/Sect	2.950	2.950	2.950	2.950	2.950	2.950	2.950	2.950	2.950	2.950
SPACES/CHANNELS/INS.										
C/I Outside	WIW	WIW	WIW	WIW	WIW	WIW	WIW	WIW	WIW	WIW
Insulation mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Channel mm	15.0	15.0	1.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
C/I Inside	WIW	WIW	WIW	WIW	WIW	WIW	WIW	WIW	WIW	WIW
Insulation mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Channel mm	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
C/I Horizontal	II	II	II	II	II	II	II	II	II	II
Sector-Sector mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Turn-Turn mm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Distance to yoke mm	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

Coil insulation mm: 0.00 Diatancw coil to coil : 28.72

D1i/D1e: 225.5 240.6
D2i/D2e: 225.5 240.6
D3i/D3e: 225.5 240.6
D4i/D4e: 225.5 240.6
D5i/D5e: 225.5 240.6
D6i/D6e: 225.5 240.6
D7i/D7e: 225.5 240.6
D8i/D8e: 225.5 240.6



Water Cooling
Cooling power W: 1361.
Coolertemper. gradC: 33.2
Watertemper. gradC: 50.
Pipe diameter mm: 15.0
Water speed. m/s: 1.00
Water t. rise gradK: 1.84
Pressure drop mBar: 14.00
Insul.thicknfs mm: 0.00
Insul. condu. W/Kmm: 0.15
Cooler position -: 3.0

Frequency	Hz: 50	Ventilation/outside	m/s: 0	Fillfactor/channels	%: 80
Ambient temperature	C: 40	Ventilation/channel	m/s: 0	Varnish in windings	%: 100
Convection outside	*: 0.8	Rth-Insulation	*: 1	Varnish/gaps/stomack	%: 100
Convection/channels	*: 0.8	Rth-Varnish	*: 1	Stomack	mm: 0.00
Emission	*: 1	Rth-Epoxy	*: 1	Gap	mm: 0.10

Output power	kVA: 206.0	Input power	kVA: 216.1	Core power	kVA: 211.1
Input current harm. 1	A: 180.1	Input current real	A: 179.9	Input current imag.	A: -9.1
harm. 0	A: 0.0	Input current real	A: 0.0	Input current imag.	A: 0.0
harm. 0	A: 0.0	Input current real	A: 0.0	Input current imag.	A: 0.0
harm. 0	A: 0.0	Input current real	A: 0.0	Input current imag.	A: 0.0
harm. 0	A: 0.0	Input current real	A: 0.0	Input current imag.	A: 0.0
Fe-Losses	VA: 8545	Fe-active losses	W: 388.3	Fe-reactive losses	VAr: 8536
No-load curren	%: 4.61	No load curr. active	%: 0.2	No load curr. react.	%: 4.6
I^in/I^nom-Factor	: 5.63	Iinrms/Inomrms-Factor	: 4.15	No load induction	T: 1.732
I^in	kA: 2.48	Iin rms	kA: 1.29	Induction	T: 1.696
Icc cold.input	kA: 5.48	Iccr active cold	kA: 5.01	Iccx reactive cold	kA: -2.23
Ucc cold.onput=100In/Icc	%: 3.28	Uccr active at 115°C	%: 4.360	Uccx inductive	%: -1.33
CuAl-losses	W: 9181.1	Efficiency	%: 95.562	Qnx leaking losses	VAr: 2821
Cu/Al temp.rise avarage	°K: 90.8	Max. dT Fe	°K: 80.4	Cu/Al temperature rise max	°K: 90.8
Oil temperature rise min.	°K: 0.0	Oil temperature rise ava.	°K: 0.0	Oil temperature rise max.	°K: 0.0

Windings	1	2	3	4	5	6	7	8	9	10
Groups-Circuits	2-Y	1-D	1-D	3-Y						
Connection	ser.	ser.	ser.	ser.						
Time1	60.0	60.0	60.0	60.0						
Load1	1.00	1.00	1.00	1.00						
Time2	60.0	0.0	0.0	60.0						
Load2	1.00	0.00	0.00	1.00						
Voltage rms in/out V	115.1	0	400	114.2						
Voltage rms V	115.1	199.2	200.7	114.2						
U-Phasen delay °	-0.69	0	0	-0.59						
No-load voltage V	119.7	199.8	200.1	119.9						
Regulation %	3.9	0.0	0.0	5.0						
Current rms in/out A	300.4	0	180.1	298.1						
Current rms A	300.48	180.12	180.12	298.11						
K-Factor	1.00	1.00	1.00	1.00						
Power kVA	34.61	35.89	36.15	34.06						
I-Phase delay °	0.0	-2.9	-2.9	0.0						
Resistance cold mOhm	4.773	14.578	18.466	7.372						
Losses warm W	613.9	654.0	844.1	948.2						
RacRdc (total)	1.00	1.01	1.01	1.00						
Icc.all cold kA	9.37	5.48	5.48	8.96						
Radial tension N/mm2	3.85	12.33	28.59	18.07						
dTcc after 1.0 s °K	150.3	146.0	146.0	148.8						
Icc.group cold kA	9.19	0.00	0.00	8.21						
Circ.losses W	0.01	0.01	0.02	0.01						
Cur.density A/mm^2	5.69	5.56	5.56	5.65						
SECTORS										
1 RacRdc	1.00	1.01	1.01	1.00						
Current A	300.4	180.1	180.1	298.1						
dT °K	85.3	73.0	79.3	90.8						
2 RacRdc										
Current A										
dT °K										
3 RacRdc										
Current A										
dT °K										
4 RacRdc										
Current A										
dT °K										
5 RacRdc										
Current A										
dT °K										
6 RacRdc										
Current A										
dT °K										
7 RacRdc										
Current A										
dT °K										
8 RacRdc										
Current A										
dT °K										