Windings	1	2	3	4	5	6	7	8	9	10
Groups	1	2	3							
Circuits	1	1	1							
Connection	1	1	1							
H/Voltag/A	1 833 0	1 110 0	1 600 0							
	. . .	. . .	. . .							
	. . .	. . .	. . .							
	. . .	. . .	. . .							
	. . .	. . .	. . .							
H/Curren/A	. . .	1 18 0	1 5 90							
	. . .	3 2.6 0	3 2.33 0							
	. . .	5 .51 0	5 .88 0							
	. . .	. . .	7 .1 0							
	. . .	. . .	0 . .							
Time1 min.	60	60	60							
Load1 *	1	1	1							
Time2 min.	0	60	60							
Load2 *	0	1	1							
Sectors	1	1	1							
Ser./Para.	1	1	1							
Wire file	0	0	0							
Cu/Al	1	1	1							
In/Layer µ	100	100	100							
Type/Tran.	10	10	10							
Typ/I/C mm	3 2 5	3 0.5 7	3 0.5 7							
Typ/I/C mm	1 2 5	1 0.5 15	1 0.5 15							
Typ/I/I mm	1 1 1	1 1 1	1 1 1							
Margin mm	12	12	12							
RacRdc	1.2	1.2	1.1							

				CHANGED IN TEST
Frequency Hz: 50	Core select. -: Selecte	Cooling medium : Air	Frequency Hz: 50
	Core file : LTCM_EI_1_L_	Amb. temperature °C: 40	Ambient temperature C: 40
Criterion : dT	Core name : EIL240/90	Convection outside *: 0.8	Convection outside *: 0.8
Ucc-voltage act. %: 1	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: 45		Airflow outside m/s: 0	Ventilation/outside m/s: 0
Max. Fe losses %: 1	Steel file : STEEL2.RDS	Airflow inside m/s: 0	Ventilation/channel m/s: 0
No-load factor %: 1	Steel name : 50A250 (1.04	Min.oil temp.rise °K: 0	Rth-Insulation *: 1
I^in/I^nom : 10	Induction T: 1.645		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 %: 10
HV-Test volta. kV: 4	f/fn-Factor *: 1	Varnish in windings %: 10	Varnish/gaps/stomack %: 10
LV-Test volta. kV:	Fill factor : 1	Varnish in gaps %: 10	Stomack mm: 1.00
HV-Nom.voltage kV: 0.4	Annealed -: Yes	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: 1	
		Gap mm: 0.1	
		Min.distance W-W mm: 0	
		Flange mm: 0	

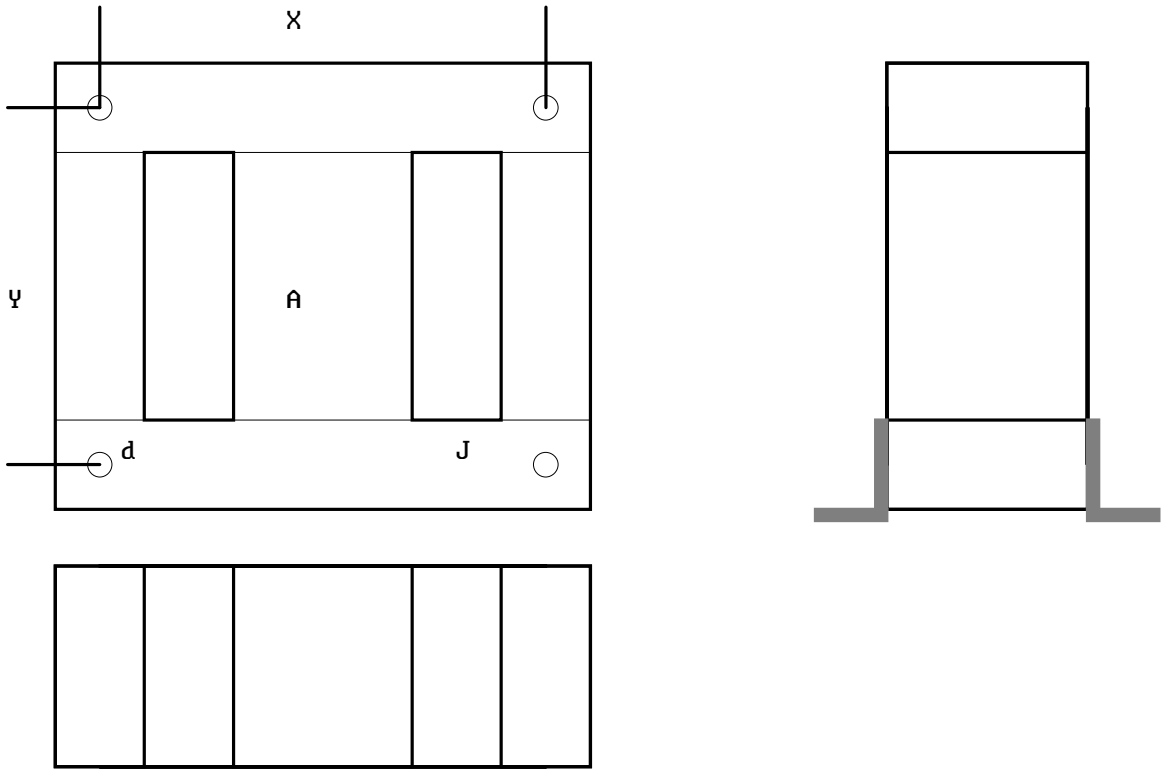
#*0 DIAGNOSIS Page 0

Name	:EIL240/90		
Steel	:50A250 (1.04W/kg/2.41W/kg/1.53T/1.63T/1.76T)		
Number of phases	-:1		
Number of legs	-:1		
Wight total/Cu/Fe	kg:32.0	=6.6	+25
Max.build of windings	%:72.5		
max.wires in parrallel	:1	=1 X 1	/0
Induction on load	T:1.641		
No-load induction	T:1.652		
Max. CuAl-dT on load	°K:38.9		
Max. Fe-dT on load	°K:37.0		
Regulation	%:0.358		
Short-circuit voltage cold	%:1.19	Ucx=0.78	Ucr=1.235
Efficiency	%:97.382		
Iinrush/Inom max/rms	*: 73.09	/ 50.06	
No-load current factor	%: 151.9		

Core file name	: LTCM_EI_1_L_1long.DIN	Fe-File name	: STEEL2.RDS
Core name	: EIL240/90	Fe-Name	: 50A250 (1.04W/kg/2.41W
Core type	: EI	Frequency	Hz: 50
Type of windings	: oval/rectangular	Remanence-Factor	*: 0.35
Number of legs	: 1	W/kg-Factor	*: 1
Core assembly	: (1) &Interlea	VAr/kg-Factor	*: 1
Leg/Diameter	cm: 8	Gap-Factor	*: 1
Window width	cm: 4	f/fn-Factor	*: 1
Window height	cm: 12	Fillfactor	*: 1
Stack	cm: 9	Annealed	-: Yes
Cross section	cm^2: 69.84		
Weight total	kg: 25.47		
With holes	-: Yes	Chassis	-:
Brackets	-: L-T&B	Vertical/Horizontal	-:

X-Width	cm: 20
Y-Height	cm: 16
d_Hole	cm: 1.1
h-Distance	cm: 0.5
L-Laenght	cm: 3.2
Z-Width	cm: 0

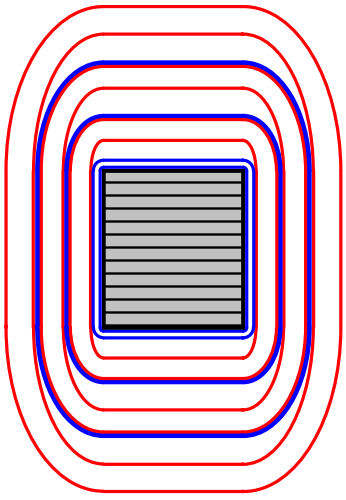
Steps		1	2	3	4	5	6	7	8	9	10
A-Leg	cm:	8	0	0	0	0	0	0	0	0	0
J-Yoke	cm:	4	0	0	0	0	0	0	0	0	0
R-Rearyoke	cm:	4	0	0	0	0	0	0	0	0	0
S-Stack	cm:	9	0	0	0	0	0	0	0	0	0
Number lamin.	:										
Weight	kg:										



Windings	1	2	3	4	5	6	7	8	9	10
Groups-Circuits	1-I	2-I	3-I							
Connection	ser.	ser.	ser.							
Turns per leg	327.0	44.0	237.0							
Build %	25.87	46.72	72.47							
Weight per leg kg	1.56	2.03	2.96							
WIRE										
Type	round	round	round							
Thicknes mm	1.32	3.75	1.80							
Width mm	1.32	3.75	1.80							
WG-thicknes	87	105	92							
WG-width	87	15	92							
Al/Cu	Cu	Cu	Cu							
STRAND/LITZ							7			
Thickne insula. mm	1.39	3.87	1.88							
Width insulata. mm	1.4	3.9	1.9							
Parallel wires	1	1	1							
side by side	1	1	1							
one upon the other	1	1	1							
Transposition	Cyl	Cyl	Cyl							
Cross section mm^2	1.36	11.0	2.54							
SECTOR										
Number	1	1	1							
Serie/Parallel	ser.	ser.	ser.							
Turns	327	44	237							
Turns/Layer	66.68	23.31	49.04							
Layers	4.903	1.887	4.832							
Insul./Layer µm	100.0	100.0	100.0							
Transposition	None	None	None							
Thicknes mm	7.35	7.84	9.80							
Height mm	96.00	96.00	96.00							
Heights Wind/Sect	4.903	1.887	4.832							
SPACES/CHANNELS/INS.										
C/I Outside	WICW	WICW	WICW							
Insulation mm	2.0	0.5	0.5							
Channel mm	5.0	7.0	7.0							
C/I Inside	WIW	WIW	WIW							
Insulation mm	2.0	0.5	0.5							
Channel mm	5.0	15.0	15.0							
C/I Horizontal	II	II	II							
Sector-Sector mm	1.0	1.0	1.0							
Turn-Turn mm	1.0	1.0	1.0							
Distance to yoke mm	12.0	12.0	12.0							

Coil insulation mm: Diatancw coil to coil : 11.01

D1i/D1e: 124.2 138.9
D2i/D2e: 153.9 169.6
D3i/D3e: 184.6 204.2
D4i/D4e: /
D5i/D5e: /
D6i/D6e: /
D7i/D7e: /
D8i/D8e: /



Frequency	Hz: 50	Ventilation/outside	m/s: 0	Fillfactor/channels	%: 80
Ambient temperature	C: 40	Ventilation/channel	m/s: 0	Varnish in windings	%: 10
Convection outside	*: 0.8	Rth-Insulation	*: 1	Varnish/gaps/stomack	%: 10
Convection/channels	*: 0.8	Rth-Varnish	*: 1	Stomack	mm: 1.00
Emission	*: 1	Rth-Epoxy	*: 1	Gap	mm: 0.10

Output power	kVA: 5.0	Input power	kVA: 2.1	Core power	: 3.6
Input current harm. 1	A: 2.6	Input current real	A: 2.6	Input current imag.	A: 0.1
harm. 3	A: 0.0	Input current real	A: 0.0	Input current imag.	A: 0.0
harm. 5	A: 0.0	Input current real	A: 0.0	Input current imag.	A: 0.0
harm. 7	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: 2950	Fe-active losses	W: 79.2	Fe-reactive losses	VAr: 2949
No-load curren	%: 151.92	No load curr. active	%: 3.8	No load curr. react.	%: 151.9
I^in/I^nom-Factor	: 73.09	Iinrms/Inomrms-Factor	: 50.06	No load induction	T: 1.652
I^in	kA: 0.26	Iin rms	kA: 0.13	Induction	T: 1.641
Icc cold.input	kA: 0.22	Iccr active cold	kA: 0.16	Iccx reactive cold	kA: -0.14
Ucc cold.onput=100In/Icc	%: 1.19	Uccr active at 115°C	%: 1.235	Uccx inductive	%: -0.78
CuAl-losses	W: 55.3	Efficiency	%: 97.382	Qnx leaking losses	VAr: 14
Cu/Al temp.rise avarage	°K: 38.9	Max. dT Fe	°K: 37.0	Cu/Al temperature rise max	°K: 38.9
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	1-I	2-I	3-I							
Connection	ser.	ser.	ser.							
Time1	60.0	60.0	60.0							
Load1	1.00	1.00	1.00							
Time2	0.0	60.0	60.0							
Load2	0.00	1.00	1.00							
Voltage rms in/out V	833	110.6	599.9							
Voltage rms V	833	110.6	599.9							
U-Phasen delay °	0	0.187	-0.42							
No-load vo÷tage V	833	111.0	592.2							
Regulation %	0.0	0.4	-1.3							
Current rms in/out A	2.562	18.11	4.999							
Current rms A	2.5623	18.114	4.9998							
K-Factor	0.00	0.00	0.00							
Power kVA	2.134	2.005	2.999							
I-Phase delay °	2.0	0.0	90.0							
Resistance cold mOhm	1681.9	33.304	913.13							
Losses warm W	13.64	13.50	28.17							
RacRdc (total)	1.00	1.00	1.00							
Icc.all cold kA	0.22	1.10	0.13							
Radial tension N/mm2	7.72	11.23	4.16							
dTcc after 1.0 s °K	150.1	125.7	159.0							
Icc.group cold kA	0.00	1.53	0.21							
Circ.losses W	0.00	0.00	0.00							
Cur.density A/mm^2	1.88	1.65	1.97							
SECTORS										
1 RacRdc	1.00	1.00	1.00							
Current A	2.562	18.11	4.999							
dT °K	38.9	38.8	38.5							
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										