

Windings	1	2	3	4	5	6	7	8	9	10
Groups	2	1	1	3						
Circuits	5	62	61	4						
Connection	1	1	1	1						
H/Voltg/A	1 470 0	1 4600 0	1 910 0	1 270 0						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
H/Curren/A	1 416 0	.	.	1 800 0						
	5 90 0	.	.	5 155 180						
	7 60 180	.	.	7 110 0						
	11 45 180	.	.	11 70 180						
	13 35 0	.	.	13 60 0						
Time1 min.	60	120	120	60						
Load1 *	1	1	1	1						
Time2 min.	60	0	0	60						
Load2 *	1	0	0	1						
Sectors	1	2	2	1						
Ser./Para.	1	1	1	1						
Wire file	5	5	5	5						
Cu/Al	1	1	1	1						
In/Layer μ	0	100	100	0						
Type/Tran.	33	10	10	33						
Typ/L/C mm	3 2 12	6 2 15	2 2 15	6 2 13						
Typ/L/C mm	3 2 12	6 2 25	2 2 15	6 2 13						
Typ/L/I mm	2 1 0.1	2 10 0.1	2 10 0.1	2 1 0.1						
Margin mm	55	55	55	55						
RacRdc	1.2	1.2	1.2	1.2						

Frequency Hz: 50	Core select. -: Created	Cooling medium : Air	CHANGED IN TEST
Criterion : dT	Core file : LTCM_F10_3_L	Amb. temperature °C: 40	Frequency Hz: 50
Ucc-voltage act. %: 1.2	Core name : Created_290	Convection outside *: 0.8	Ambient temperature C: 40
Ucc-voltage tot. %: 6	Core assembly: (6) 45° Satri	Convection inside *: 0.8	Convection outside *: 0.8
Temperat. rise °K: 115	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 : 23P90 (50Hz	Airflow inside m/s: 0	Ventilation/outside m/s: 0
I ⁱⁿ /I ^{nom} : 10	Induction T: 1.55	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: 100	UAr/kg *: 1		Rth-Varnish *: 1
HU-Test volta. kU: 16	Airgap *: 1	Channel fill factor %: 70	Rth-Compound *: 1
LU-Test volta. kU: 6	f/Fn-Factor *: 1	Varnish in windings %: 100	Fillfactor/channels %: 70
HU-Mom.voltage kU: 6	Fill factor : 1	Varnish in gaps %: 100	Varnish in windings %: 100
LU-Testvoltage kU: 6	Annealed -: No	Rth-varnish *: 1	Varnish/gaps/stomack %: 100
Cu Price per kg : 2		Rth-compound *: 1	Stomack mm: 0.10
Al Price per kg : 1		Rth-insulation *: 1	Gap mm: 0.10
Fe Price per kg : 1		Coil insulation mm: 0	
		Stomach mm: 0.1	
		Gap mm: 0.1	
		Min.distance W-W mm: 0	
		Flange mm: 0	

#*0

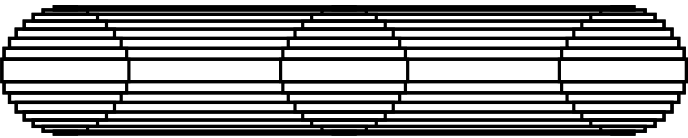
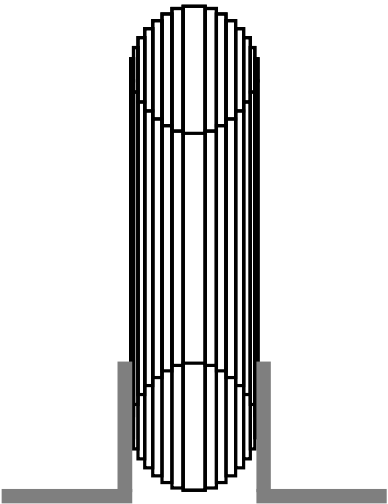
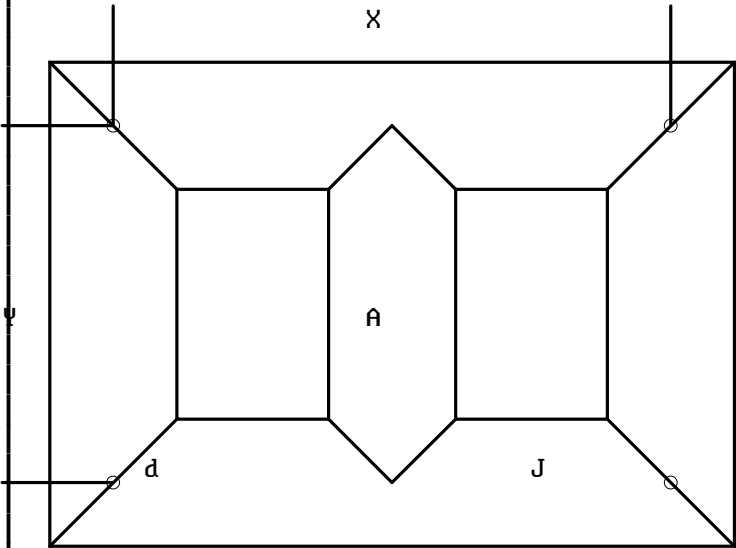
DIAGNOSIS

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Name :Created_290
 Steel :23P90 (50Hz 1.7T<0.90W/kg/800A/m<1.88T)
 Number of phases -:3
 Number of legs -:3
 Wight total/Cu/Fe kg:2623.2 =535.2 +26088
 Max.build of windings %:92.3
 max.wires in parrallel :6 =2 X 3 /2
 Induction on load T:1.551
 No-load induction T:1.565
 Max. CuAl-dT on load °K:113.6
 Max. Fe-dT on load °K:38.3
 Regulation %:1.437
 Short-circuit voltage cold %:4.93 Ucx=4.76 Ucr=1.262
 Efficiency %:98.465
 Iinrush/Inom max/rms *: 3.63 / 2.69
 No-load current factor %: 0.1

Core file name	: LTCM_EI0_3_L_1.USR	Fe-File name	: STEEL1.RDS
Core name	: Created_290	Fe-Name	: 23P90 (50Hz 1.7T<0.90
Core type	: 3EI	Frequency	Hz: 50
Type of windings	: round	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: 28.93	Gap-Factor	*: 1
Window width	cm: 34	f/fn-Factor	*: 1
Window height	cm: 51.5	Fillfactor	*: 1
Stack	cm: 28.6	Annealed	-: No
Cross section	cm^2: 585.4		
Weight total	kg: 2088.		
With holes	-: Yes	Chassis	-:
Brackets	-: L-T&B	Vertical/Horizontal	-:

		Steps	1	2	3	4	5	6	7	8	9	10
X-Width	cm: 125	A-Leg	cm:28.5	27.5	25	22	18.5	14.5	10	5	0	0
Y-Height	cm: 80	J-Yoke	cm:28.5	27.5	25	22	18.5	14.5	10	5	0	0
d_Hole	cm: 2.85	R-Rearyoke	cm:0	0	0	0	0	0	0	0	0	0
h-Distance	cm: 2.85	S-Stack	cm:5	2.5	2.2	2.1	1.8	1.5	1	0.7	0	0
L-Laenght	cm: 28.5	Number lamin.	:									
Z-Width	cm: 0	Weight	kg:									



Windings	1	2	3	4	5	6	7	8	9	10
Groups-Circuits	2-D	1	1	3-Y						
Connection	ser.	ser.	ser.	ser.						
Turns per leg	23.0	228.0	45.0	13.0						
Build	%									
Weight per leg	kg									
WIRE										
Type	flat	flat	flat	flat						
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										
Cross section	mm^2									
SECTOR										
Number	1	2	2	1						
Serie/Parallel	ser.	ser.	ser.	ser.						
Turns	23	114	22.5	13						
Turns/Layer	23.16	8.834	22.83	13.43						
Layers	0.992	12.90	0.985	0.967						
Insul./Layer	µm									
Transposition	Rotat	None	None	Rotat						
Thicknes	mm									
Height	mm									
Heights Wind/Sect										
SPACES/CHANNELS/INS.										
C/I Outside	WICW	WCICW	WCW	WCICW						
Insulation	mm									
Channel	mm									
C/I Inside	WICW	WCICW	WCW	WCICW						
Insulation	mm									
Channel	mm									
C/I Horizontal	CC	CC	CC	CC						
Sector-Sector	mm									
Turn-Turn	mm									
Distance to yoke	mm									

Coil insulation mm: Diatancw coil to coil : 25.76
D1i/D1e: 317.3 331.9
D2i/D2e: 395.9 451.9
D3i/D3e: 481.9 488.4
D4i/D4e: 544.4 559.2
D5i/D5e: /
D6i/D6e: /
D7i/D7e: /
D8i/D8e: /

