

Windings	1	2	3	4	5	6	7	8	9	10
Groups	2	1	3	4						
Circuits	4	4	4	4						
Connection	1	+1	1	1						
H/Voltg/A	1 148 0	1 82 0	1 54.4 0	1 54.4 0						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
	.	.	.	.						
H/Curren/A	1 750 0	.	1 388 15	1 388 345						
	5 40 0	.	5 77 75	5 77 285						
	7 28 180	.	7 55 105	7 55 255						
	11 67 180	.	11 35 165	11 35 195						
	13 57 180	.	13 30 195	13 30 165						
Time1 min.	60	60	60	60						
Load1 *	1	1	1	1						
Time2 min.	60	0	60	60						
Load2 *	1	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 12	2 1 12	1 1 12						
Typ/L/C mm	3 2 12	2 2 12	2 1 12	1 1 12						
Typ/L/I mm	1 1 1	1 1 1	1 1 1	1 1 1						
Margin mm	25	25	25	25						
RacRdc	1.05	1.1	1.1	1.1						

Frequency Hz: 50	Core select. -: Auto2	Cooling medium : Air	CHANGED IN TEST
Criterion : dT	Core file : LTCM_E10_3_L	Amb. temperature °C: 0	Frequency Hz: 50
Ucc-voltage act. %: 1	Core name : EI3P 230760x	Convection outside *: 0.8	Ambient temperature C: 0
Ucc-voltage tot. %: 5	Core assembly: (7) 4x45°+3x9	Convection inside *: 0.8	Convection outside *: 0.8
Temperat. rise °K: 100	With hole -: No	Emission *: 1	Convection/channels *: 0.8
Max. Fe losses %: 1	Steel file : STEEL2.RDS	Airflow outside m/s: 0	Emission *: 1
No-load factor %: 1	Steel name : 50A350 (1.42	Airflow inside m/s: 0	Ventilation/outside m/s: 0
I ⁱⁿ /I ^{nom} : 10	Induction T: 1.4	Min.oil temp.rise °K: 0	Ventilation/channel m/s: 0
Irms on/Irms nom : 10	W/kg *: 1		Rth-Insulation *: 1
Losses at temp.°C: 115	UAr/kg *: 1		Rth-Uarnish *: 1
HU-Test volta. kU: 4	Airgap *: 1	Channel fill factor %: 80	Rth-Compound *: 1
LU-Test volta. kU: 0.4	f/Fn-Factor *: 1	Uarnish in windings %: 10	Fillfactor/channels %: 80
HU-Mom.voltage kU: 0.4	Fill factor : 1	Uarnish in gaps %: 10	Uarnish in windings %: 10
LU-Testvoltage kU: 2	Annealed -: No	Uarnish/gaps/stomack %: 10	Stomack mm: 1.00
Cu Price per kg : 1		Rth-uarnish *: 1	Gap mm: 0.10
Al Price per kg : 1		Rth-compound *: 1	
Fe Price per kg : 1		Rth-insulation *: 1	
		Coil insulation mm: 0	
		Stomach mm: 1	
		Gap mm: 0.1	
		Min.distance W-W mm: 0	
		Flange mm: 0	

#*0

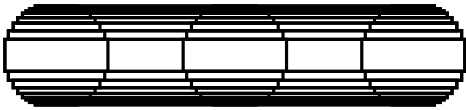
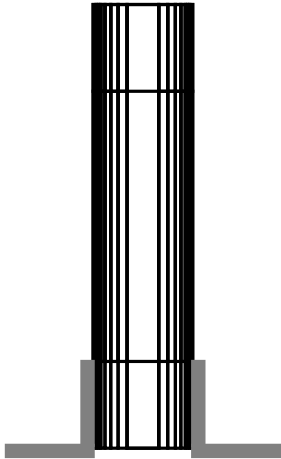
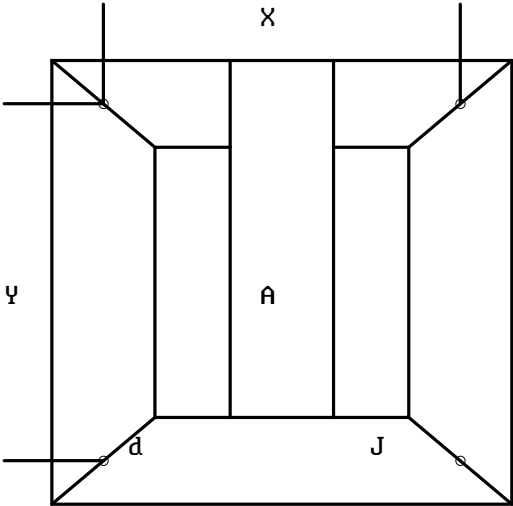
DIAGNOSIS

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Name	:EI3P 230760x760/8/1/0
Steel	:50A350 (1.42W/kg/3.16W/kg/1.1.59T/1.67T/1.79T
Number of phases	-:3
Number of legs	-:3
Wight total/Cu/Fe	kg:1326.2 =281.1 +1.045
Max.build of windings	%:84.8
max.wires in parrallel	:1 =1 X 1 /6
Induction on load	T:1.402
No-load induction	T:1.407
Max. CuAl-dT on load	°K:104.4
Max. Fe-dT on load	°K:86.7
Regulation	%:2.052
Short-circuit voltage cold	%:1.52 Ucx=1.10 Ucr=1.331
Efficiency	%:98.220
Iinrush/Inom max/rms	*: 7.95 / 5.60
No-load current factor	%: 1.8

Core file name	: LTCM_EI0_3_L_1.USR	Fe-File name	: STEEL2.RDS
Core name	: EI3P 230760x760/8/1/0	Fe-Name	: 50A350 (1.42W/kg/3.16W
Core type	: 3EI	Frequency	Hz: 50
Type of windings	: round	Remanence-Factor	*: 0.35
Number of legs	: 3	W/kg-Factor	*: 1
Core assembly	: (7) 4x45°+3x9	UAr/kg-Factor	*: 1
Leg/Diameter	cm: 23.02	Gap-Factor	*: 1
Window width	cm: 16	f/fn-Factor	*: 1
Window height	cm: 57.5	Fillfactor	*: 1
Stack	cm: 21.2	Annealed	-: No
Cross section	cm^2: 376.0		
Weight total	kg: 1045.		
With holes	-: Yes	Chassis	-:
Brackets	-: L-T&B	Vertical/Horizontal	-:

		Steps	1	2	3	4	5	6	7	8	9	10
X-Width	cm: 76	A-Leg	cm:22	20.5	18.5	16.5	14.5	13	11.5	9	0	0
Y-Height	cm: 76	J-Yoke	cm:18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	0	0
d_Hole	cm: 2	R-Rearyoke	cm:0	0	0	0	0	0	0	0	0	0
h-Distance	cm: 2	S-Stack	cm:6.8	1.9	1.6	1.2	0.9	0.5	0.5	0.6	0	0
L-Laenght	cm: 18.5	Number lamin.	:									
Z-Width	cm: 0	Weight	kg:									



Windings	1	2	3	4	5	6	7	8	9	10
Groups-Circuits	2-Y	1-Y	3-Y	4-Y						
Connection	ser.	ser.	ser.	ser.						
Turns per leg	13.0	7.0	5.0	5.0						
Build	% 29.11	64.78	82.14	84.81						
Weight per leg	kg 25.09	63.48	2.56	2.58						
WIRE										
Type	Foil	Foil	Foil	Foil						
Thicknes	mm 0.50	2.00	0.10	0.10						
Width	mm 525.00	525.00	525.00	525.00						
WG-thicknes	0	0	0	0						
WG-width	0	0	0	0						
Al/Cu	Cu	Cu	Cu	Cu						
STRAND/LITZ							7			
Thickne insula.	mm 0.50	2.00	0.10	0.10						
Width insulata.	mm 525.0	525.0	525.0	525.0						
Parallel wires	1	1	1	1						
side by side	1	1	1	1						
one upon the other	1	1	1	1						
Transposition	Cyl	Cyl	Cyl	Cyl						
Cross section	mm^2 262.5	1050.0	52.5	52.5						
SECTOR										
Number	1	1	1	1						
Serie/Parallel	ser.	ser.	ser.	ser.						
Turns	13	7	5	5						
Turns/Layer	1	1	1	1						
Layers	13	7	5	5						
Insul./Layer	µm 100.0	100.0	100.0	100.0						
Transposition	None	None	None	None						
Thicknes	mm 7.80	14.70	1.00	1.00						
Height	mm 525.00	525.00	525.00	525.00						
Heights Wind/Sect	13	7	5	5						
SPACES/CHANNELS/INS.										
C/I Outside	WICW	WCW	WCW	WIW						
Insulation	mm 2.0	2.0	1.0	1.0						
Channel	mm 12.0	12.0		12.0						
C/I Inside	WICW	WCW	WCW	WIW						
Insulation	mm 2.0	2.0	1.0	1.0						
Channel	mm 12.0	12.0	12.0	12.0						
C/I Horizontal	II	II	II	II						
Sector-Sector	mm 1.0	1.0	1.0	1.0						
Turn-Turn	mm 1.0	1.0	1.0	1.0						
Distance to yoke	mm 25.0	25.0	25.0	25.0						

Coil insulation mm: Diatancw coil to coil : 22.73

D1i/D1e: 258.2 273.8

D2i/D2e: 297.8 327.2

D3i/D3e: 351.2 353.2

D4i/D4e: 355.2 357.2

D5i/D5e: /

D6i/D6e: /

D7i/D7e: /

D8i/D8e: /

