

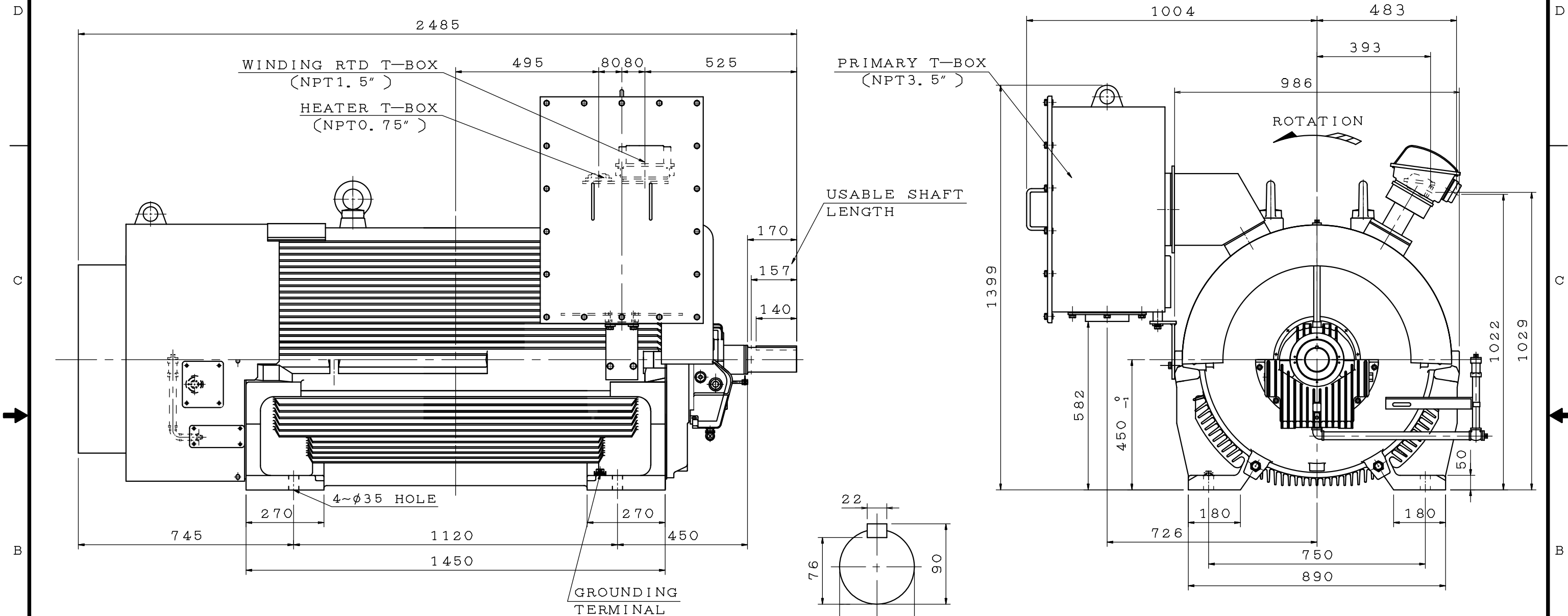
SPECIFICATION TABLE OF 3-PHASE SQUIRREL CAGE INDUCTION MOTOR	CUSTOMER	TWMC	USER	RR-S
	INQ. NO.		EQUIPMENT	
	JOB NO.	FD111030T1	MACHINE	
	TOTAL SETS	2	ITEM NO.	

Item	Terms	Description				
1	Model	AFJH-S2				
2	Code or Standard	Dimensions	Frame Assignment	Performance	Test	
		IEC	TWMC	NEMA	NEMA	
3	Rating	1000 HP 2 Pole 2300/4160 Volt 3 Phase 60 Hz				
4	Service Duty	Continuous Rating , S.F. 1.15				
5	Starting Method	D.O.L.				
6	Rotation	Facing The Drive End : CCW				
7	Drive Method	Direct Coupling				
8	Environment	Amb. Temp. : -20 ~ 40 °C				
		Humidity : Less Than 95 %RH				
		Altitude : Up to 2200 M				
9	Enclosure & Protection	IP54 : Totally Enclosed		Indoor		
10	Cooling	IC411 : Self External Fan, Surface Cooling				
11	Mounting	IM1001 : HS, Foot				
12	Dimensions	Dr# 4A040C506(REV.00)		Frame No : 450CA		
13	Frame & Bracket	Frame : Cast Iron		Bracket : Cast Iron		
14	Fan & Fan Cover	Fan :Reinforced Plastic		Fan Cover :Steel Plate		
15	Terminal Box	Steel Plate				
16	Lead Terminals	(TLK70-10)X6				
17	Lubrication	Oil Viscosity : ISO VG32 (Sleeve Bearings)				
18	Painting	Color : MUNSELL 7.5B 3.5/0.5				
19	Stator Winding	Ins. Class F				
20	Rotor Conductor	Cu-Alloy		WR^2 : 478 Lb-ft^2		
21	Starting Performance	LRC ≤ 1634 Amp		LRT/FLT 90 %		
22	Operating Performance	Hz/V	60/2300			Break Down Torque 230 %FLT
		%Load	100	75	50	
		Amp.	215	168	123	
		Eff.%	96.6	96.2	95.5	Temp. Rise Limit. (Res.) Stator 80 °C at S.F.1.0
		P.F.%	90.0	87.0	80.0	
		R.P.M.	3585	3589	3593	
23	Approximate Weight	Motor : 4800 Kgs				
24	Note	1.With Space Heater : 1φ 120V 300W 2.With Winding RTD : PT 100Ω/0°C 6pcs				

APPD.	Ming	NOV. 22 2010		DWG NO.	3A057H186-51029
CHKD.	Sandy	NOV. 22 2010		REV.00	
DWN.	CF.WENG	OCT. 28 2010		1/1	

TYPE	OUTPUT		POLE	TIME RATING	VOLTAGE V	Hz	SYN. SPEED R. P. M
	HP.	kW.					
AFJH-S2	1000		2	CONT.	2300/4160	60	3600

TOTALLY ENCLOSED FAN-COOLED TYPE. SQUIRREL-CAGE ROTOR



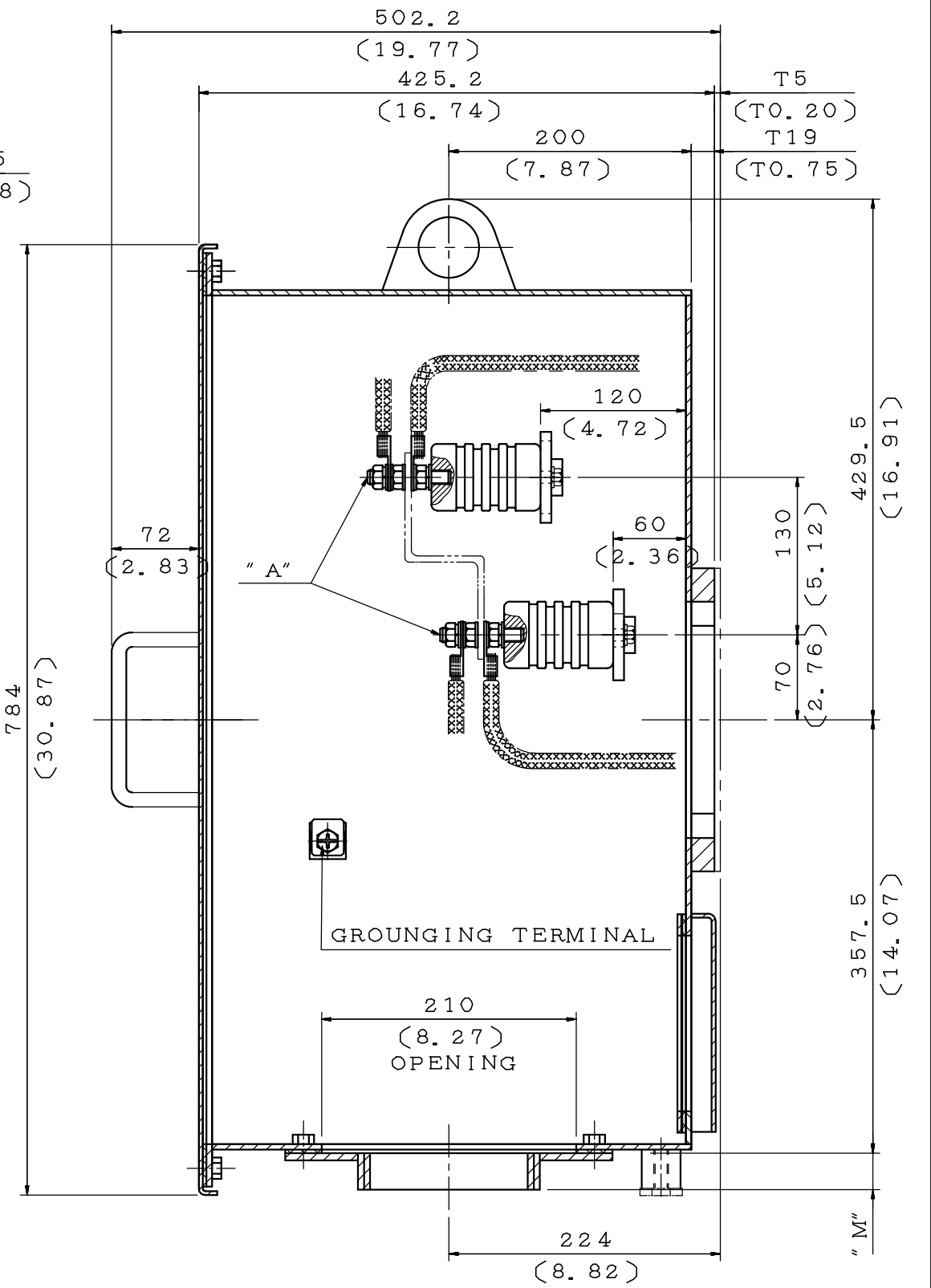
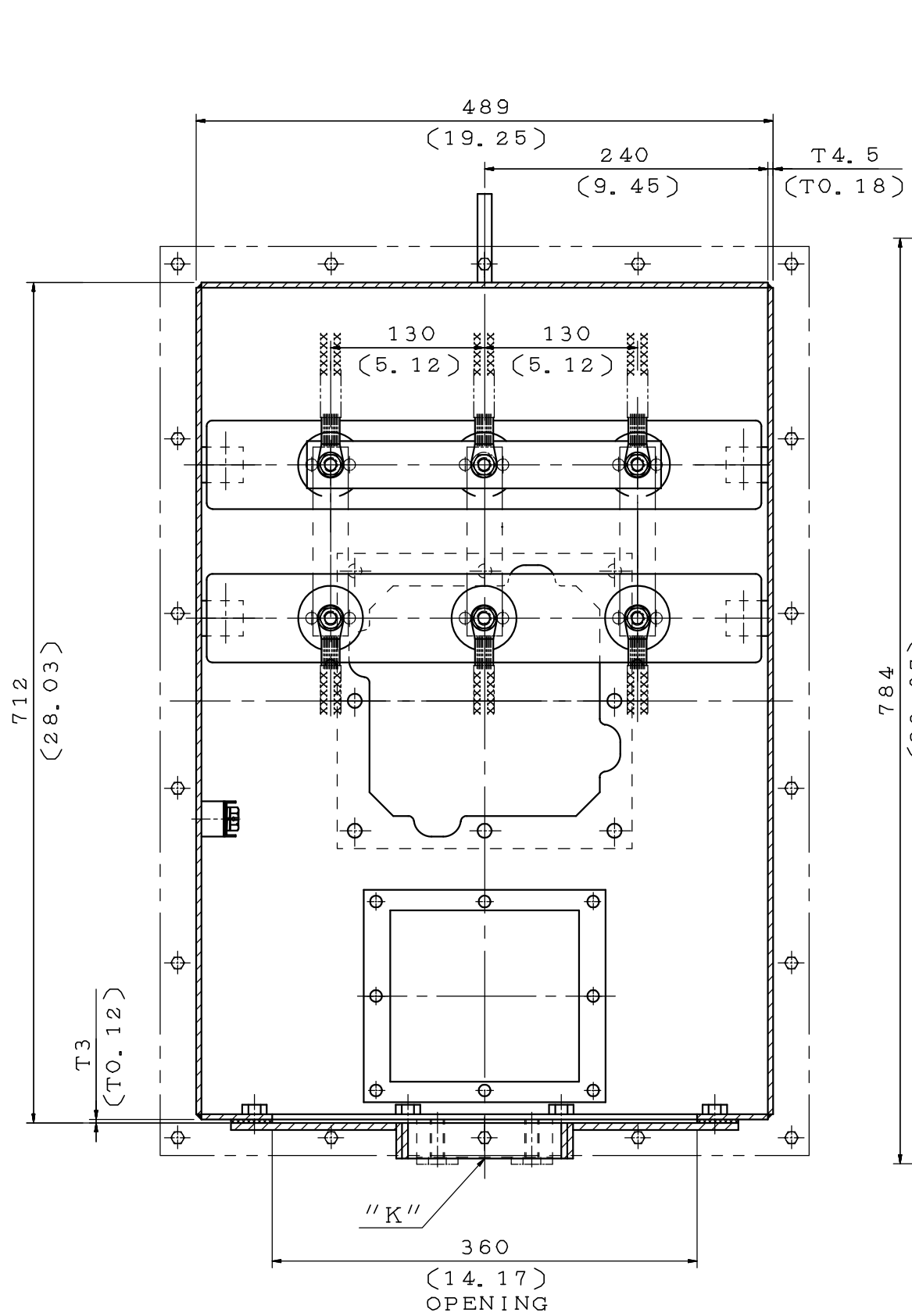
NOTE:

1. DIMENSIONS IN MM
2. FRAME NO. 450CA
3. F CLASS INSULATION, S. F. 1.15
4. ENCLOSURE: IP54
5. BEARING SIZE: DRIVE END: 9S-80 (UNINSULATED)
OPP. DRIVE END: 9S-80 (INSULATED)
6. THE NON-DRIVE END BEARING LINER (SHELL) IS INSULATED FROM THE HOUSING. METAL CONNECTIONS MADE TO THE BEARING SHELL MUST BE INSULATED TO PREVENT AN INSULATION SHORT CIRCUIT. METAL CONNECTIONS MADE TO THE HOUSING DO NOT NEED TO BE INSULATED.
7. BEARING LUBRICATION: SELF-LUBRICATION
A. OIL VISCOSITY: ISO VG32
B. OIL CAPACITY: 2.4L FOR EACH BEARING
8. SLEEVE TYPE BEARING, AXIAL THRUST LOAD NOT ALLOWED
9. THE MOTOR ENDPLAY IS ± 7 MM. A LIMITED END FLOAT TYPE COUPLING IS REQUIRED TO LIMIT ENDPLAY TO ± 2.4 MM
10. WITH SPACE HEATER: 1 ϕ 120V 300W
11. WITH WINDING RTD: PT 100 Ω /0 $^{\circ}$ C 6PCS
12. PROVISION FOR BEARING RTD
13. APPROX. WEIGHT: 4800KGS

DWN.	C. WANG	NOV. 11. 2010
CHKD.	B. LIN	NOV. 18. 2010
APPD.	B. YANG	NOV. 18. 2010

DATE		OUTLINE DIMENSIONS	
		3-PHASE INDUCTION MOTOR	
		DWG NO.	REV:00
		4A040C506	

ITEM	A	K	M
01	M8	0	$\frac{6}{(0.24)}$
02	M10	0	$\frac{6}{(0.24)}$
03	M16	0	$\frac{6}{(0.24)}$
04	M8	NPT2.5"	$\frac{30}{(1.18)}$
05	M10	NPT2.5"	$\frac{30}{(1.18)}$
06	M16	NPT2.5"	$\frac{30}{(1.18)}$
07	M8	NPT3"	$\frac{30}{(1.18)}$
08	M10	NPT3"	$\frac{30}{(1.18)}$
09	M16	NPT3"	$\frac{30}{(1.18)}$
10	M8	NPT3.5"	$\frac{30}{(1.18)}$
11	M10	NPT3.5"	$\frac{30}{(1.18)}$
12	M16	NPT3.5"	$\frac{30}{(1.18)}$
13	M8	NPT4"	$\frac{30}{(1.18)}$
14	M10	NPT4"	$\frac{30}{(1.18)}$
15	M16	NPT4"	$\frac{30}{(1.18)}$



NOTE:
 1. DIMENSIONS IN MM(INCH)
 2. PRIMARY T-BOX
 3. ORDER NO. FD111030T1

DATE	NOV.22.2010	SCHEMATIC DRAWING	
		TERMINAL BOX	
DWG NO.	3B040Q448	REV:03	

DWN.	E. HSU	APR.07.2008
CHKD.	H. HUANG	APR.07.2008
APPD.	C. WANG	APR.07.2008



6

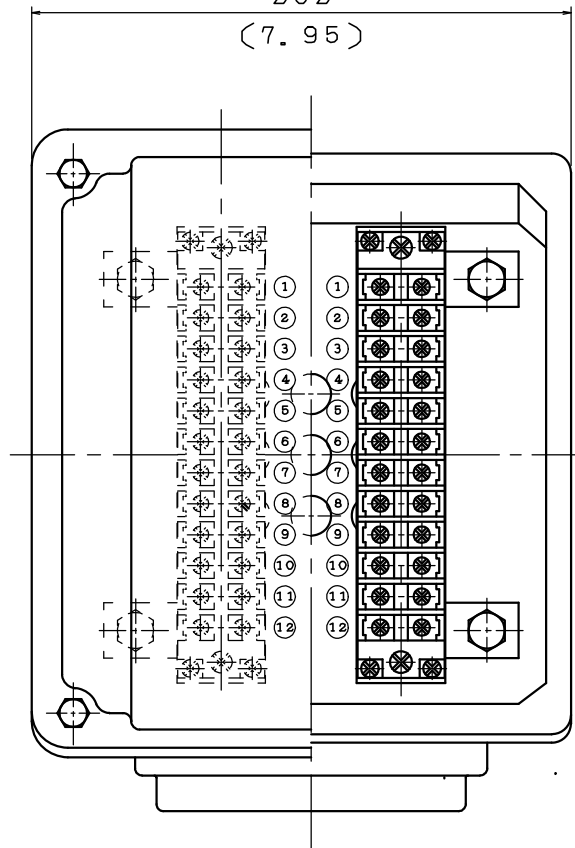
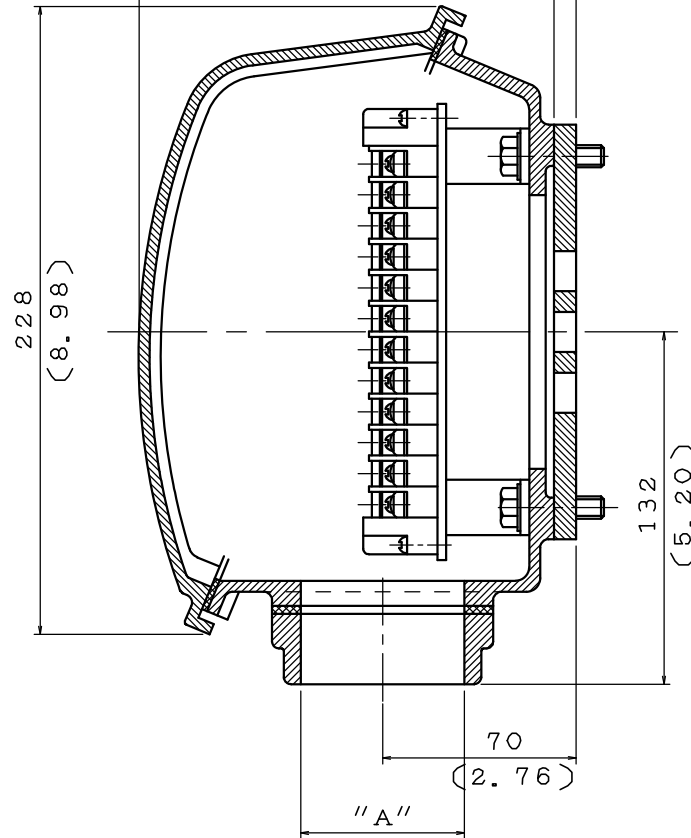
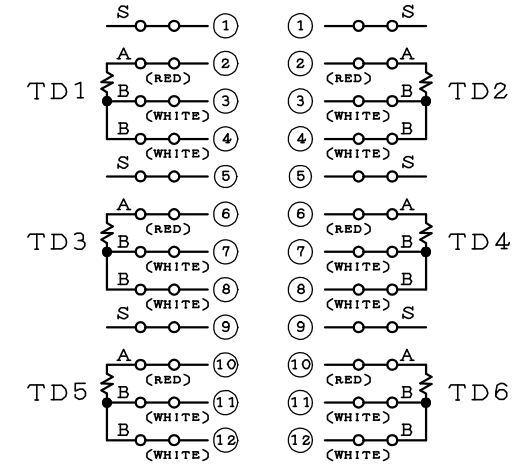
5

4

3

2

1

202
(7.95)149
(5.87) 8
(0.31)WINDING
R. T. D.WINDING
R. T. D.

ITEM	A
01	PF-1"
02	PF-1.5"
03	PF-2"
04	NPT-1"
05	NPT-1.5"
06	NPT-2"
07	M25×1.5
08	M32×1.5
09	M50×1.5
10	NPT-0.75"
11	M20×1.5
12	

NOTE:

- DIMENSION IN MM(INCHES).
- TW-36
- WINDING R. T. D. T-BOX.
- TD1 & TD2 FOR U(T1) PHASE
TD3 & TD4 FOR V(T2) PHASE
TD5 & TD6 FOR W(T3) PHASE.
- ORDER NO. FD111030T1.
- ENCLOSURE: IP65(NEMA 4X)
- MATERIAL: CAST IRON

DATE

NOV.22.2010

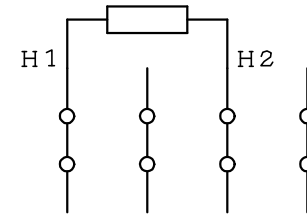
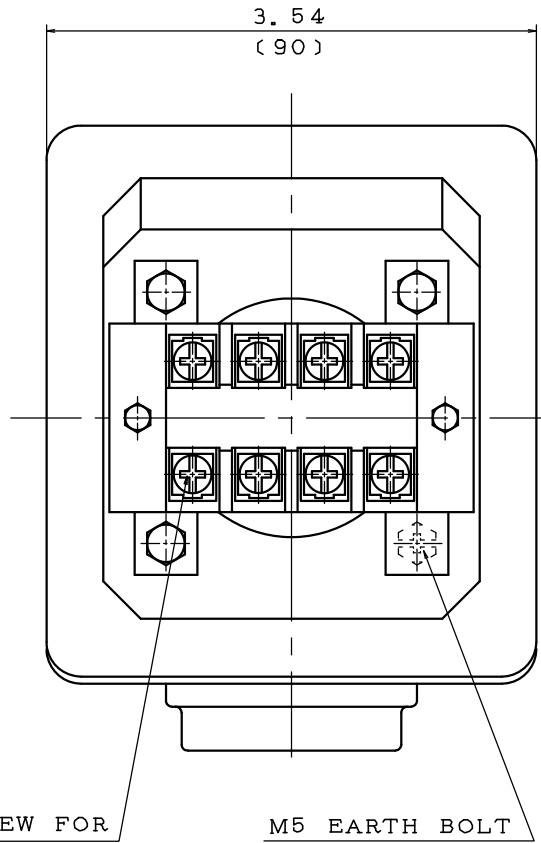
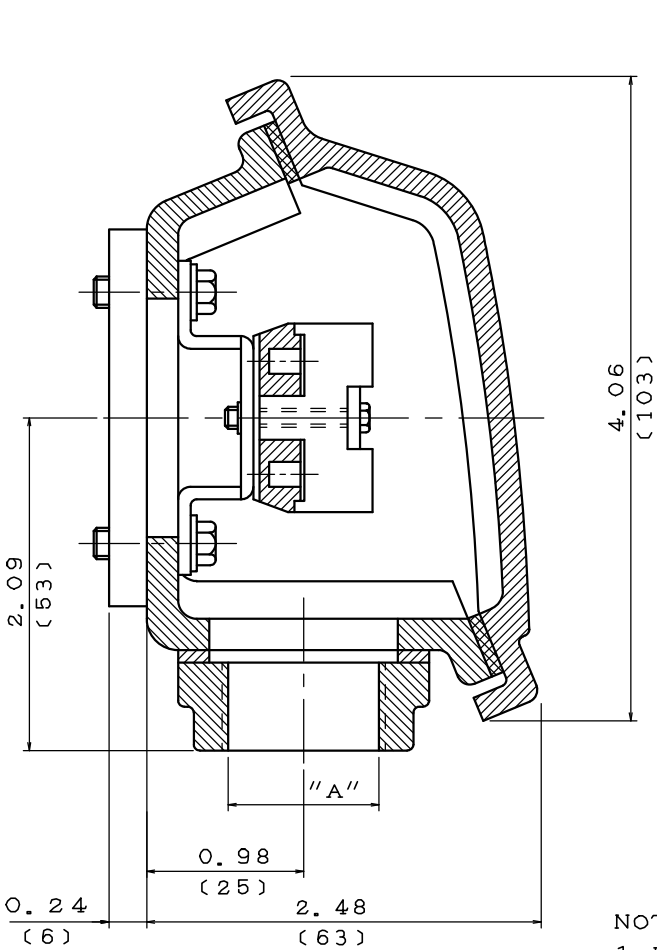
SCHEMATIC DRAWING

TERMINAL BOX

DWN.	S. WANG	MAR•26•1999
CHKD.	J. PENG	MAR•29•1999
APPD.	A. WU	MAR•29•1999

DWG NO. REV:12

3A040D418



項	A
01	M20×1.5
02	PF-0.5"
03	PF-0.75"
04	PT-0.5"
05	PT-0.75"
06	NPT-0.5"
07	NPT-0.75"
08	M25×1.5
09	PF1"
10	NPT1"
11	PG16

- NOTE:
1. DIMENSIONS IN INCHES (MM).
 2. TW-06
 3. SPACE HEATER T-BOX.
 4. ORDER NO. FD111030T1.
 5. ENCLOSURE: IP55 (NEMA 4X)
 6. MATERIAL: CAST IRON

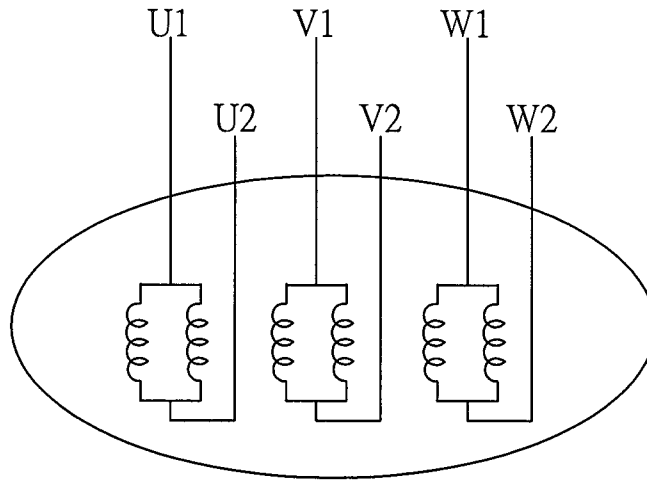
DATE	NOV.22.2010	SCHEMATIC DRAWING	
		TERMINAL BOX	
DWN.	H. HUANG	JUL.19.2003	DWG NO. REV:04 3A040U272
CHKD.	H. HUANG	JUL.19.2003	
APPD.	C. WANG	JUL.19.2003	

TECO® Westinghouse

DATE
NOV.22.2010

SCHEMATIC
6 LEADS

MODEL



SCHEMATIC DIAGRAM - 6 LEADS

VOLTAGE	CONNECTION	ROTATION (VIEWED FROM DRIVE END)
LOW	<p>Diagram showing a star (Y) connection. Three horizontal lines labeled R, S, and T represent the power supply. The motor windings are connected to these lines. The top terminals are U1 and W2. The bottom terminals are W1 and U2. The center point is V1. The bottom-most terminal is V2.</p>	<p>A curved arrow indicating clockwise rotation when viewed from the drive end.</p>
HIGH	<p>Diagram showing a delta (Δ) connection. Three horizontal lines labeled R, S, and T represent the power supply. The motor windings are connected in a triangle. The top terminal is U1. The bottom terminals are W1 and V1. The middle terminal is U2V2W2.</p>	<p>A curved arrow indicating clockwise rotation when viewed from the drive end.</p>

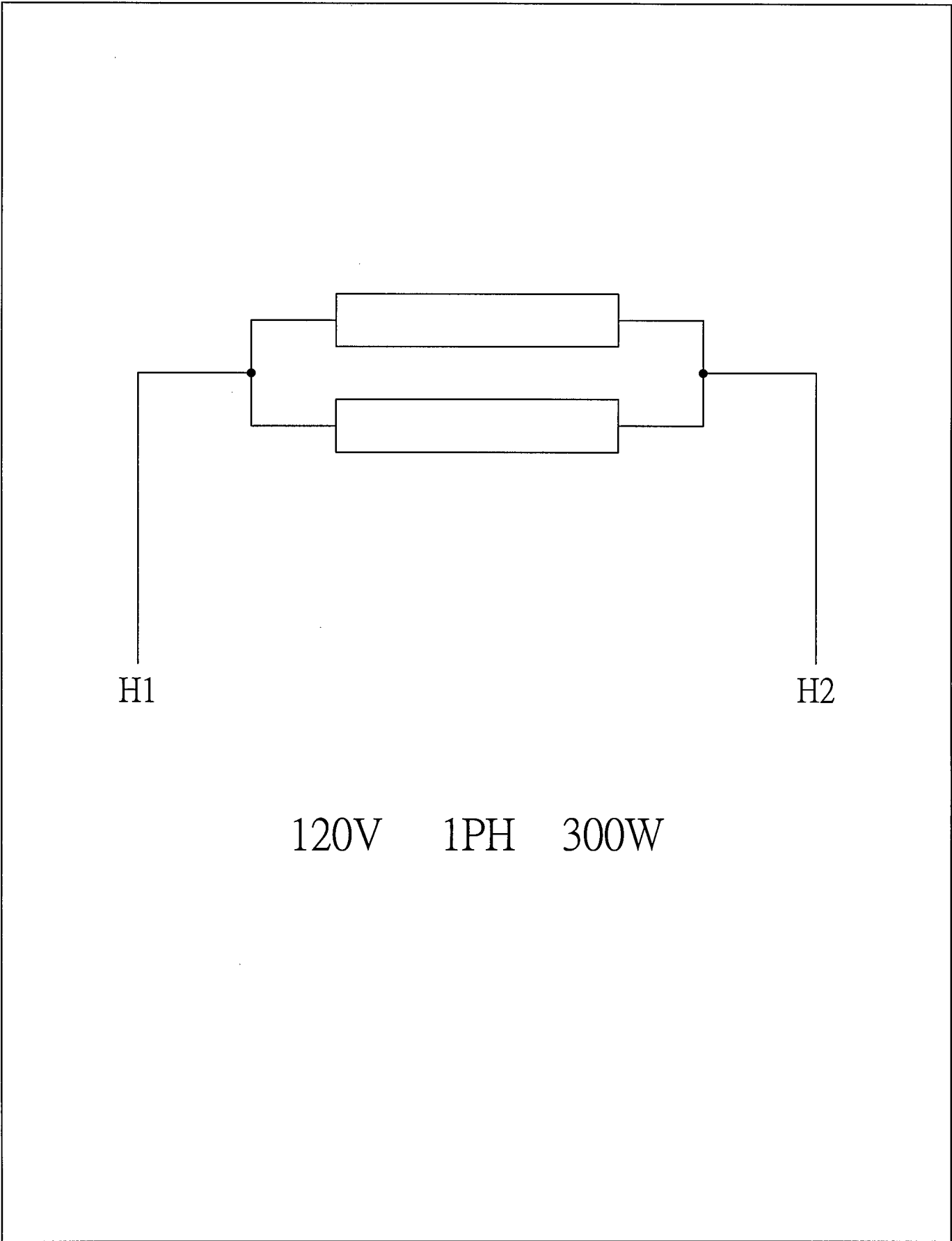
DWN.	S.HUANG	MAR · 03 · 2003
CHKD.	T.HSIAO	MAR · 03 · 2003
APPD.	T.HSIAO	MAR · 03 · 2003

TECO **Westinghouse**

DWG NO. REV: 00

3 A 0 6 1 H 4 7 7

DATE NOV.22.2010	SCHMATIC SPACE HEATER	MODEL

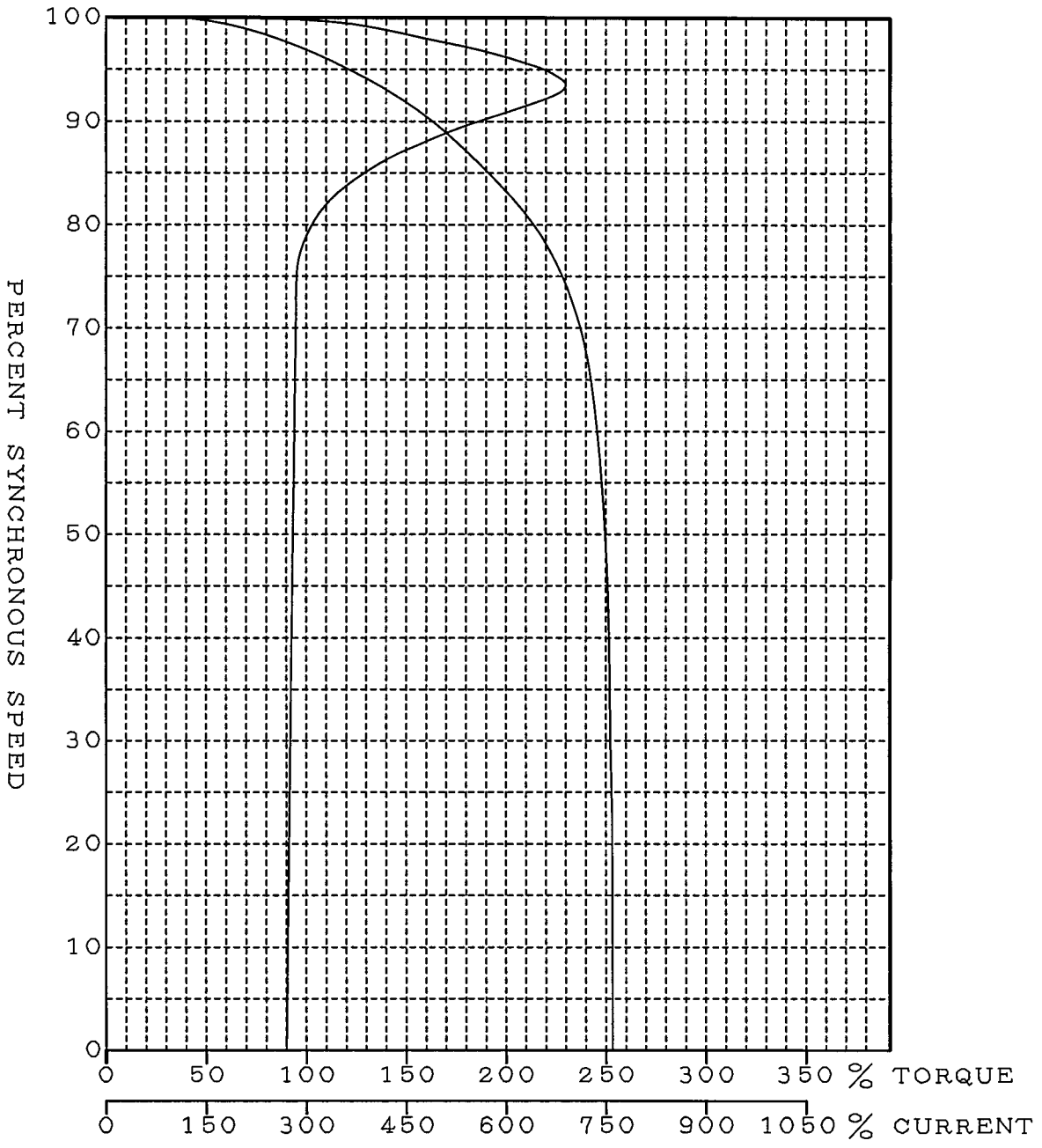


DWN.	S.HUANG	MAR · 03 · 2003	TECO  Westinghouse	DWG NO.	REV: 00
CHKD.	T.HSIAO	MAR · 03 · 2003		3 A 0 6 1 H 2 3 7	
APPD.	T.HSIAO	MAR · 03 · 2003			

INDUCTION MOTOR STARTING CHARACTERISTICS

T-N/I-N CURVE

TYPE:AFJH HP:1000 VOLTS:2300 ORDER NO:FD111030T1
 HZ:60 POLES:2 RPM(FLS):3585
 LOCK AMPS(%):760 LOCK TORQUE(%):90



DWG.	CF. WENG	20101110
APPD.	T. HSIAO	20101110



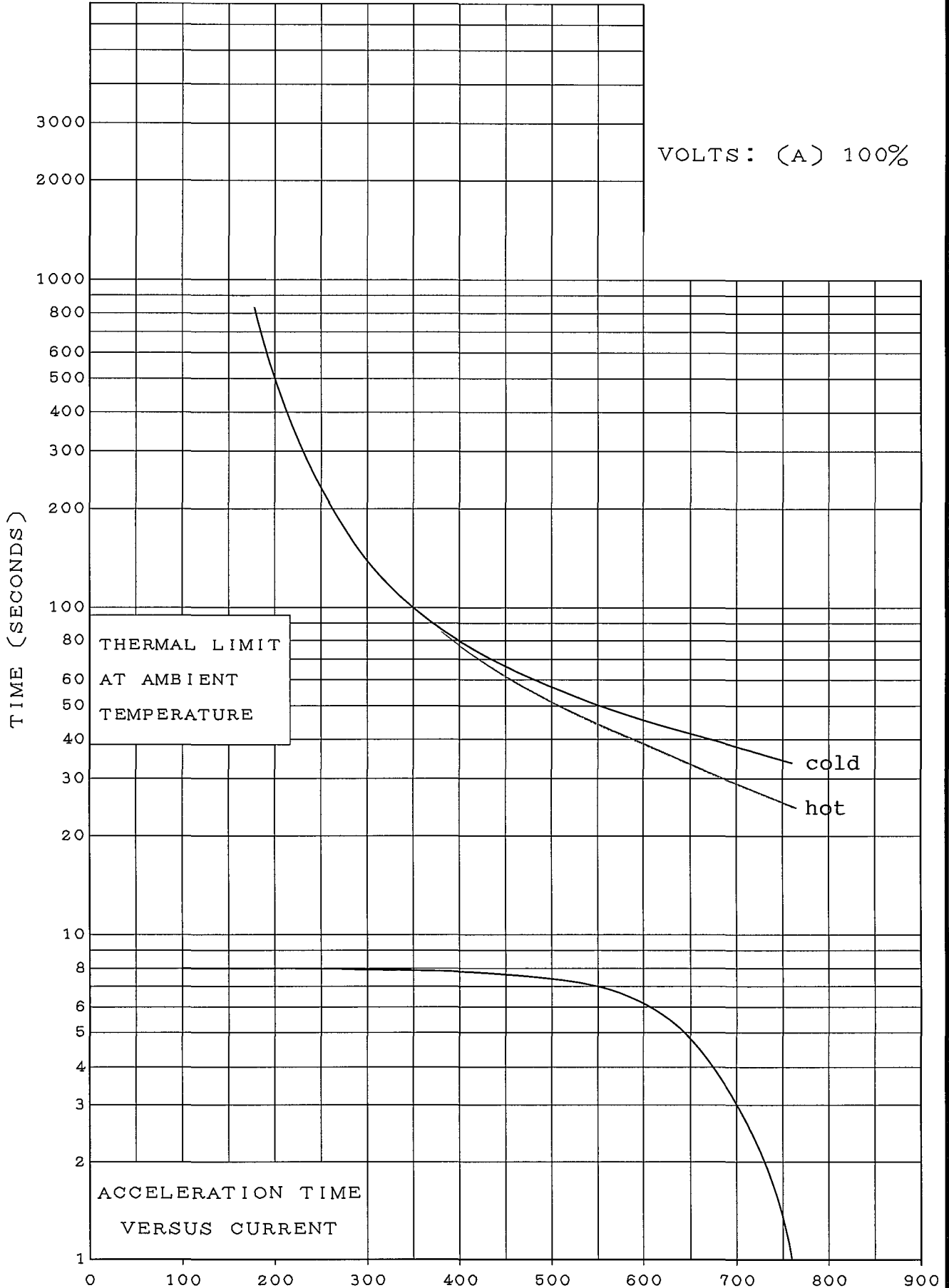
DWG NO. REV:00
 FD111030T1
 T-I-N

TIME — CURRENT AND THERMAL LIMIT CURVES

LOAD WK² (LB-FT²):668
 TYPE:AFJH POLE:2

MOTOR WK² (LB-FT²):478
 HP:1000 NO. : FD111030T1

VOLTS: (A) 100%



DWG.	CF. WENG	20101110
APPD.	T. HSIAO	20101110



DWG NO. REV:00
 FD111030T1
 TIME