NOV.30.2010

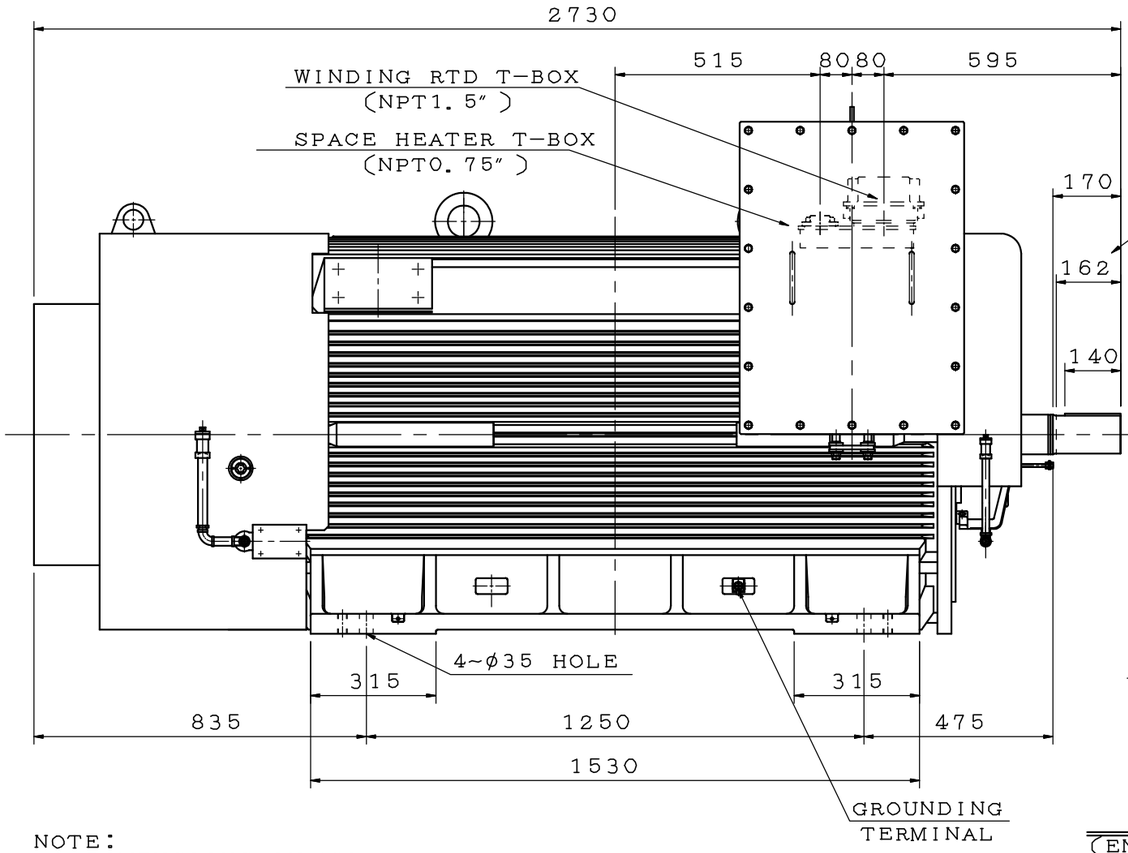
SPECIFICATION TABLE OF 3-PHASE SQUIRREL CAGE INDUCTION MOTOR				
	CUSTOMER	TWMC	USER	RR-S
	INQ. NO.		EQUIPMENT	
	JOB NO.	FD111031T1	MACHINE	
	TOTAL SETS	2	ITEM NO.	

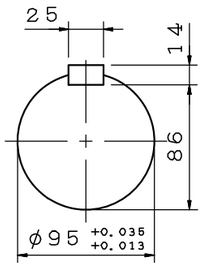
Item	Terms	Description			
1	Model	AFJH-S2			
2	Code or Standard	Dimensions	Frame Assignment	Performance	Test
		IEC	TWMC	NEMA	NEMA
3	Rating	1250 HP 2 Pole 2300/4160 Volt 3 Phase 60 Hz			
4	Service Duty	Continuous Rating , S.F. 1.15			
5	Starting Method	D.O.L.			
6	Rotation	Facing The Drive End : CCW			
7	Drive Method	Direct Coupling			
8	Environment	Amb. Temp. : -20 ~ 40 ℃			
		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# 4A040C549(REV.00)	Frame No ： 500CA		
13	Frame & Bracket	Frame : Cast Iron	Bracket : Steel Plate		
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 ： 485 Lb-ft^2	
21	Starting Performance	LRC ≦ 1970 Amp		LRT/FLT 85 %	
22	Operating Performance	Hz/V	60/2300		Break Down Torque
		%Load	100	75	50	240 %FLT
		Amp.	266	204	149	
		Eff.%	96.8	96.5	95.5	Temp. Rise Limit. (Res.)
		P.F.%	91.0	89.0	82.0	Stator 80 ℃
		R.P.M.	3586	3590	3593	at S.F.1.0
23	Approximate Weight	Motor ： 6400 Kgs			
24	Note	1.With Space Heater : 1φ 120V 400W 2.With Winding RTD : PT 100Ω/0℃ 6pcs			

APPD.	Ming	NOV. 30 2010	TECO Westinghouse	DWG NO. 3A057H186-51063
CHKD.	Sandy	NOV. 30 2010		REV.00 1/1
DWN.	CF.WENG	OCT. 29 2010		

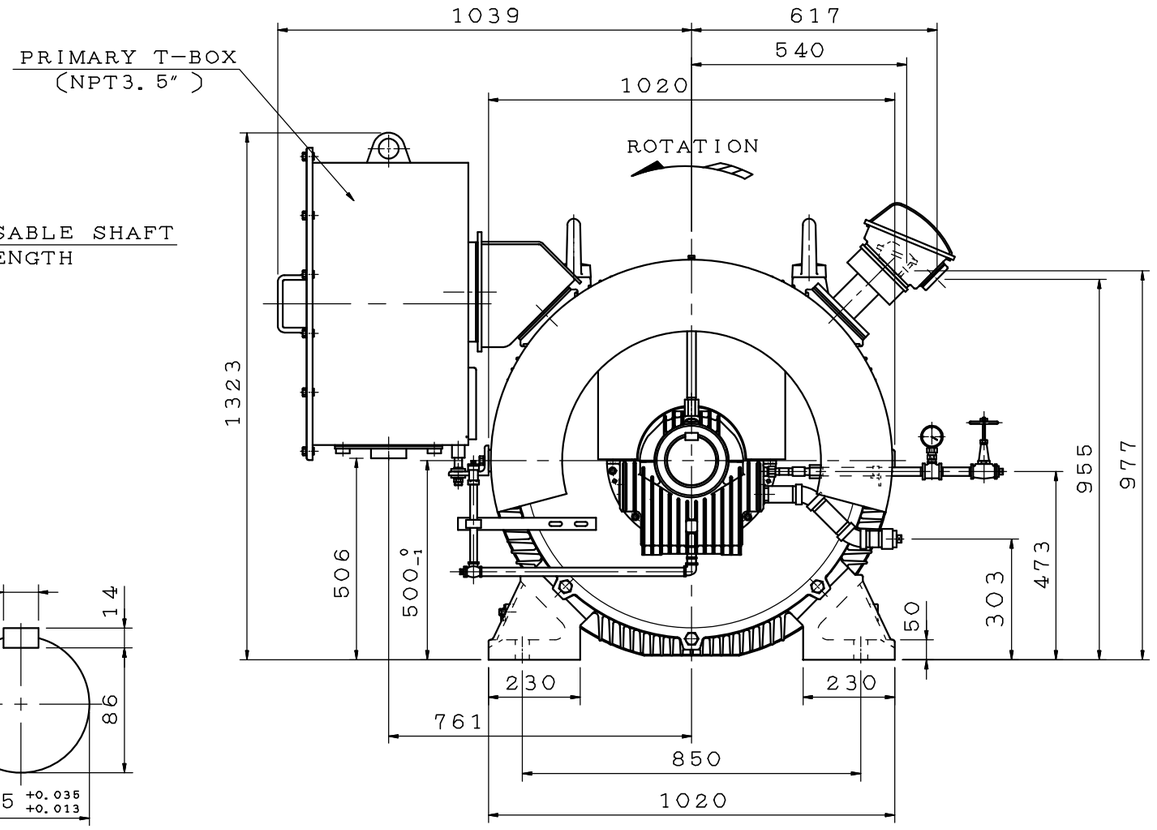
TYPE	OUTPUT		POLE	TIME RATING	VOLTAGE V	Hz	SYN. SPEED R. P. M
	HP.	kW.					
AFJH—S2	1250		2	CONT.	2300/4160	60	3600

TOTALLY ENCLOSED FAN-COOLED TYPE. SQUIRREL-CAGE ROTOR





SHAFT END
(ENLARGED VIEW)



NOTE:
1. DIMENSIONS IN MM
2. FRAME NO. 500CB
3. F CLASS INSULATION, S. F. 1. 15
4. FOR DIRECT FLEXIBLE COUPLING
5. ENCLOSURE: IP54
6. BEARING SIZE: DRIVE—END:9S—100(UNINSULATED)
   OPP. DRIVE—END:9S—100(INSULATED)
7. 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 CONNETIONS MADE TO THE HOUSING DO NOT NEED TO BE INSULATED.
8. BEARING LUBRICATION: SELF-LUBRICATION
   A. OIL VISCOSITY: ISO VG32(140~160SSU AT 100° F)
   B. OIL QUANTITY: 2. 4L FOR EACH BEARING
9. BEARING LUBRICATION: FORCE OIL LUBRICATION
   A. OIL VISCOSITY: ISO VG32(140~160SSU AT 100° F).
   B. OIL FLOW RATE: 1. 9L/MIN (TOTAL).
   C. OIL INLET PRESSURE: 1. 0 KG/CM².
   D. OIL INLET TEMPERATURE: 48° C, MAX.
   E. OIL INLET ORIFICE: 2. 0MM FOR EACH BEARING.
10. SLEEVE TYPE BEARING, AXIAL THRUST LOAD NOT ALLOWED
11. THE MOTOR ENDPLAY IS ±7MM. A LIMITED END FLOAT TYPE COUPLING IS REQUIRED TO LIMIT ENDPLAY TO ±2. 4MM.
12. WITH SPACE HEATER:1φ 120V 400W.
13. WITH WINDING RTD: PT 100Ω/0° C 6PCS.
14. PROVISION FOR BEARING RTD
15. APPROX. WEIGHT: 6400KGS

DWN.	C. WANG	NOV•24•2010
CHKD.	B. LIN	NOV•29•2010
APPD.	B. YANG	NOV•29•2010

DATE

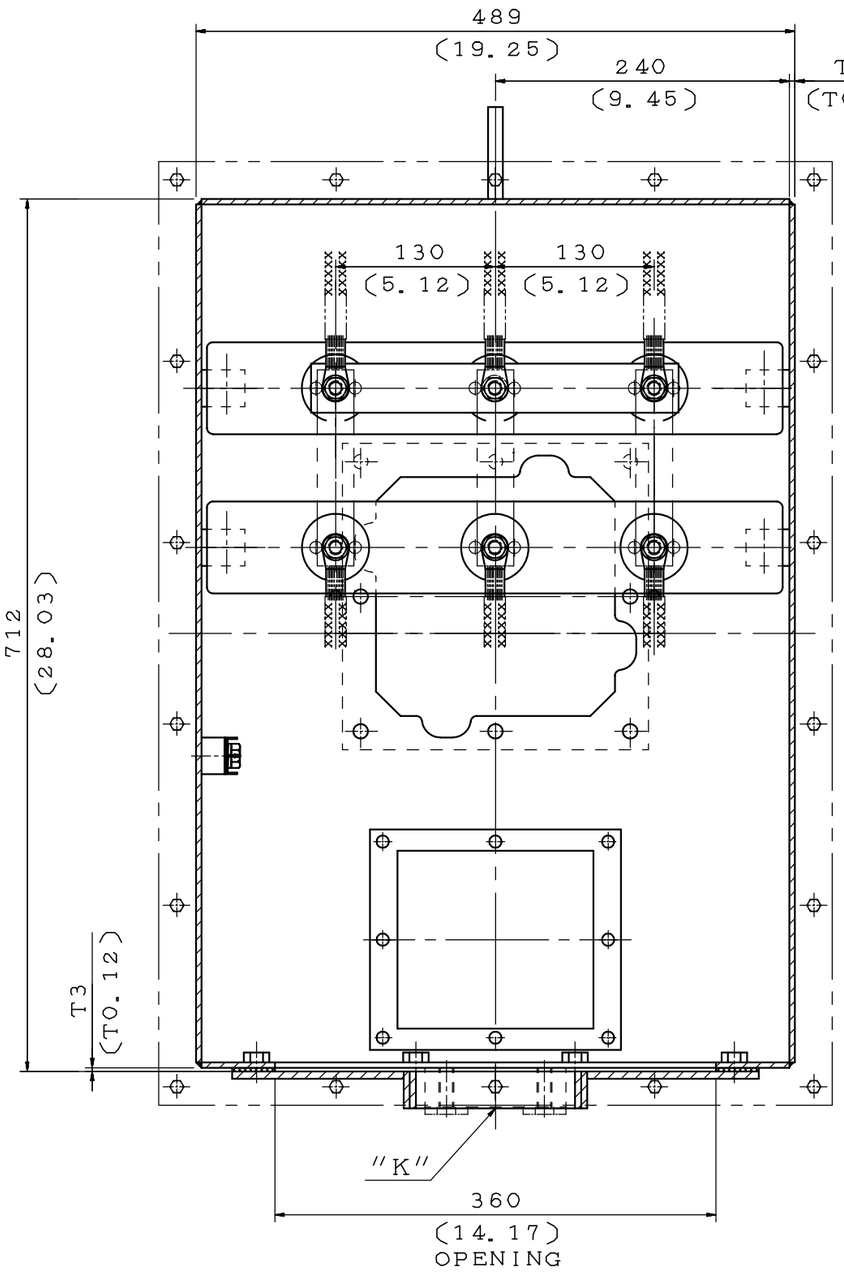
OUTLINE DIMENSIONS

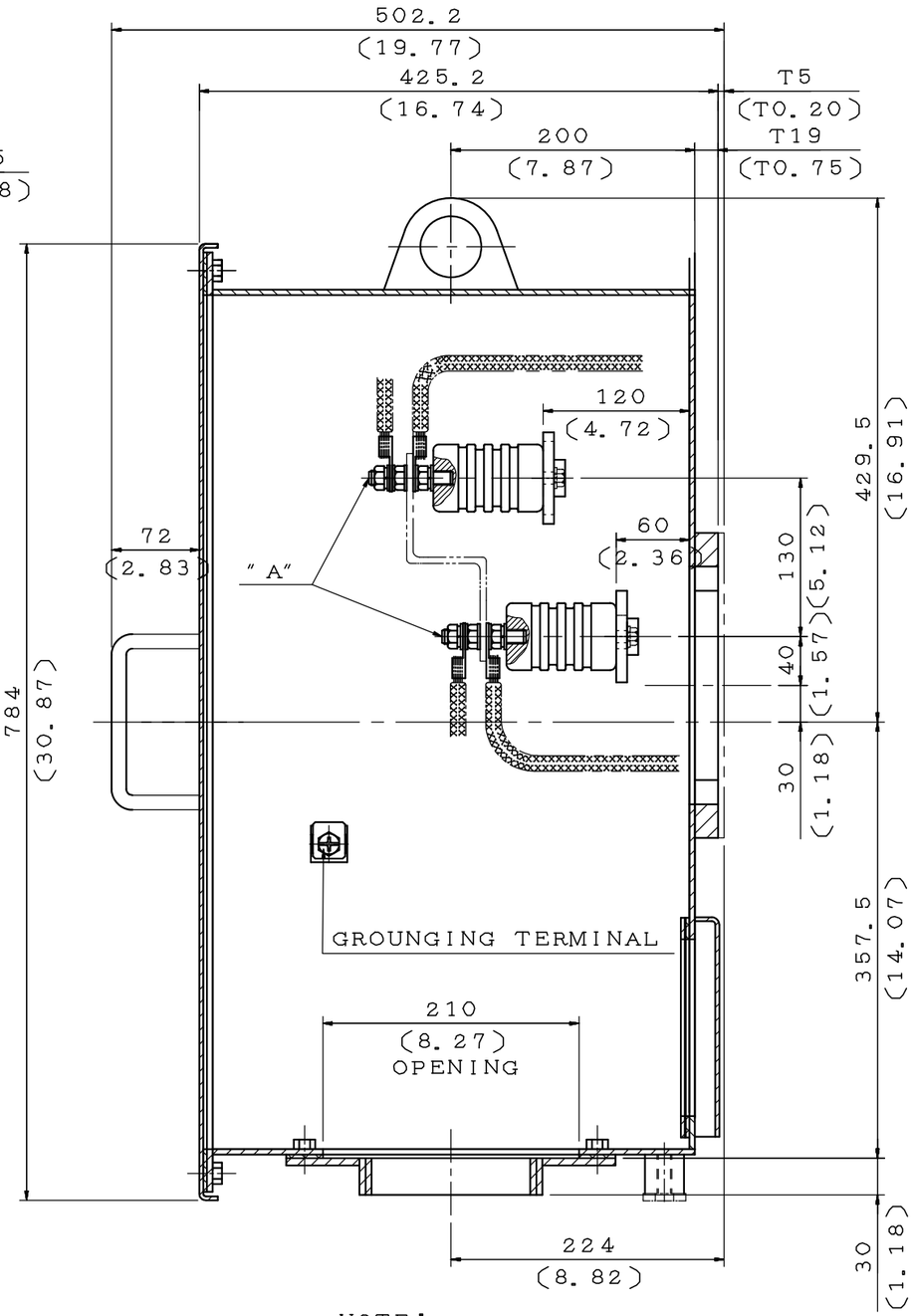
3—PHASE INDUCTION MOTOR

TECO Westinghouse

DWG NO. 4A040C549 REV:00

ITEM	A	K	M
01	M8	NPT2.5″	30 (1.18)
02	M10	NPT2.5″	30 (1.18)
03	M16	NPT2.5″	30 (1.18)
04	M8	NPT3″	30 (1.18)
05	M10	NPT3″	30 (1.18)
06	M16	NPT3″	30 (1.18)
07	M8	NPT3.5″	30 (1.18)
08	M10	NPT3.5″	30 (1.18)
09	M16	NPT3.5″	30 (1.18)
10	M8	NPT4″	30 (1.18)
11	M10	NPT4″	30 (1.18)
12	M16	NPT4″	30 (1.18)





NOTE:
1. DIMENSIONS IN MM(INCH)
2. PRIMARY T-BOX
3. ORDER NO. FD111031T1

DWN.	C. WANG	NOV•26•2010
CHKD.	B. LIN	NOV•29•2010
APPD.	B. YANG	NOV•29•2010

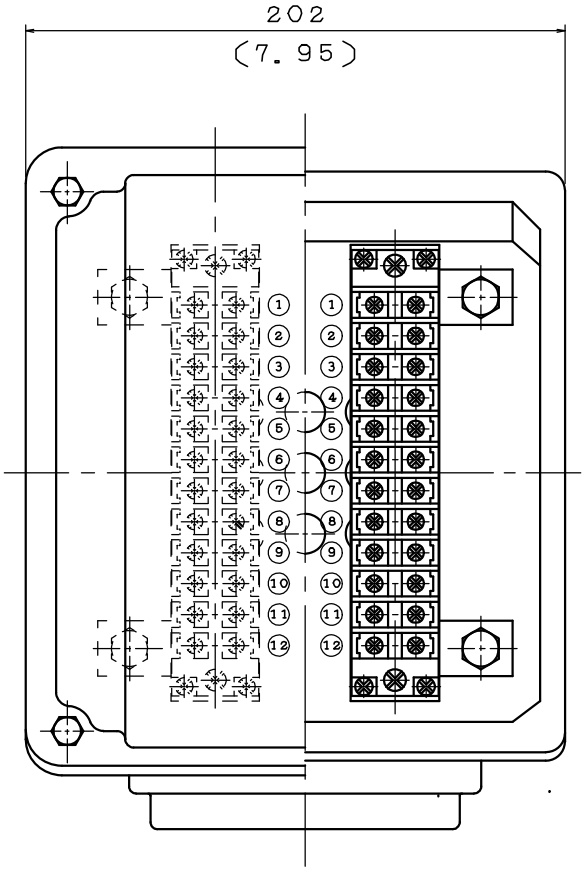
DATE NOV.30.2010

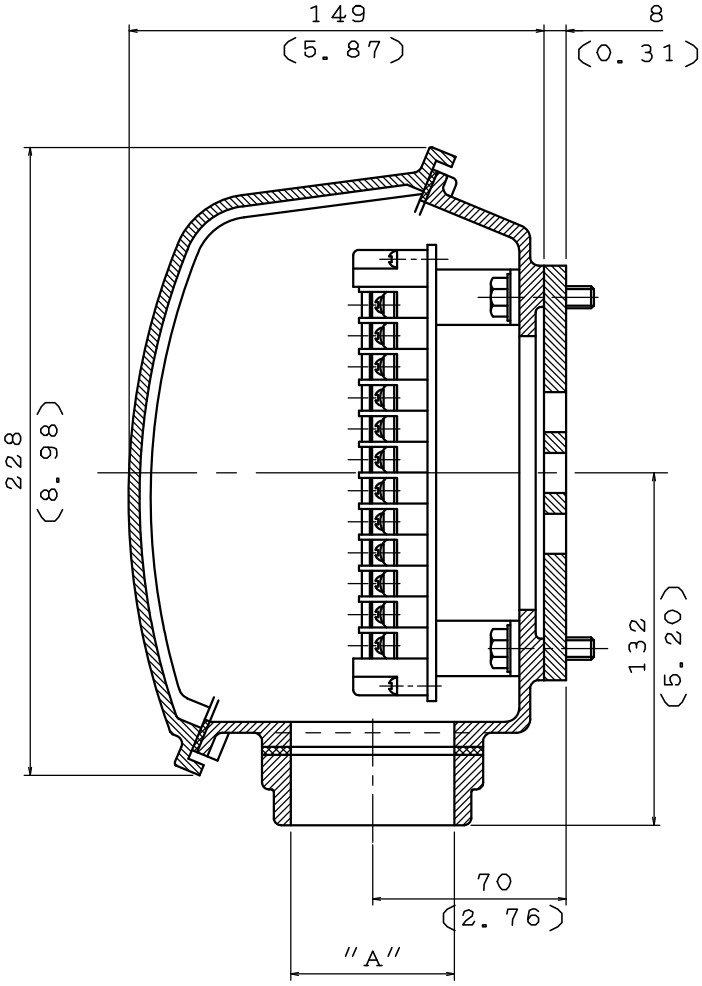
SCHEMATIC DRAWING

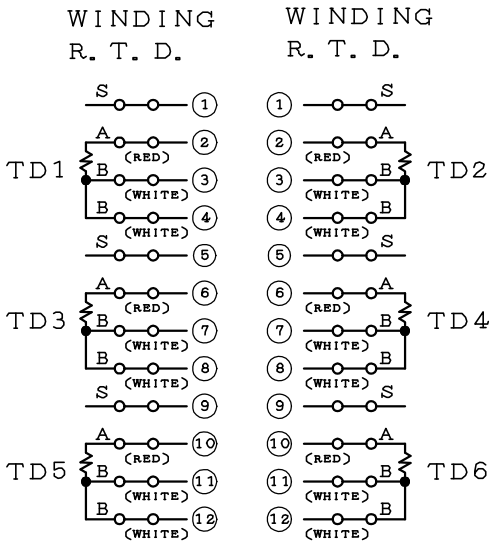
TERMINAL BOX

TECO Westinghouse

DWG NO. 4A040C564 REV:00







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:

1. DIMEMSION IN MM(INCHES).
2. TW—36
3. WINDING R.T.D. T—BOX.
4. TD1 & TD2 FOR U(T1) PHASE
   TD3 & TD4 FOR V(T2) PHASE
   TD5 & TD6 FOR W(T3) PHASE.
5. ORDER NO. FD111031T1.
6. ENCLOSURE:IP65(NEMA 4X)
7. MATERIAL: CAST IRON

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

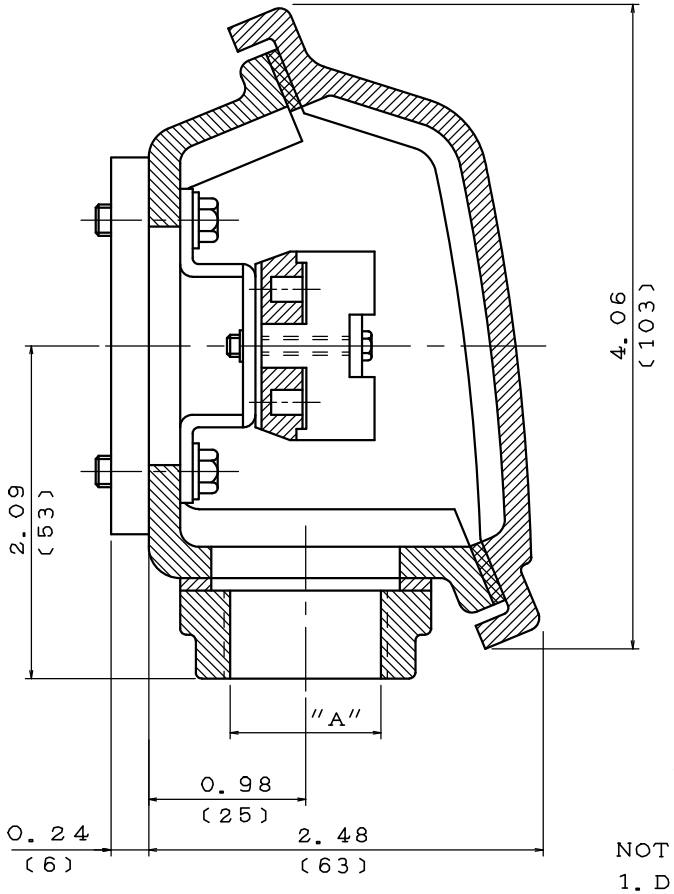
DATE NOV.30.2010

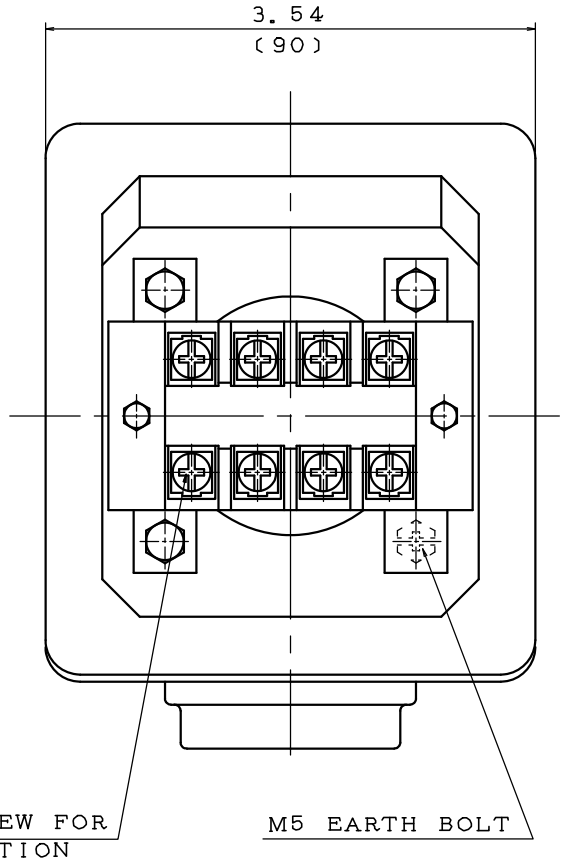
SCHEMATIC DRAWING

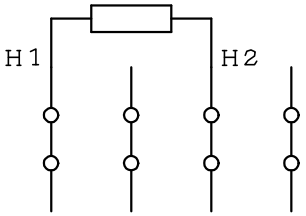
TERMINAL BOX

TECO Westinghouse

DWG NO. 3A040D418 REV:12







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. FD111031T1.
5. ENCLOSURE:IP55 (NEMA 4X)
6. MATERIAL: CAST IRON

DWN.	H. HUANG	JUL•19•2003
CHKD.	H. HUANG	JUL•19•2003
APPD.	C. WANG	JUL•19•2003

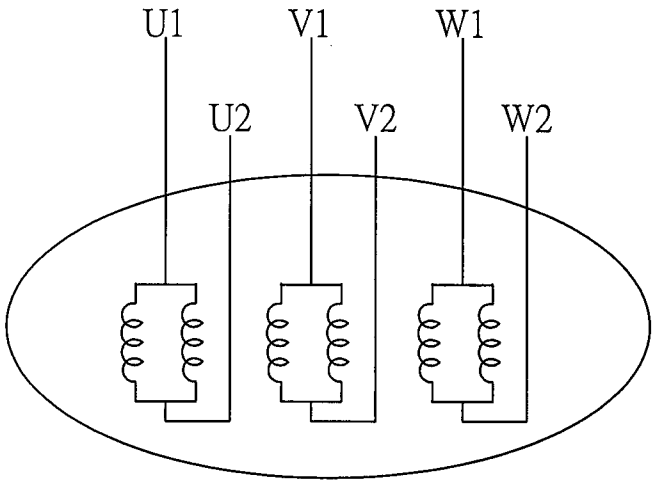
DATE NOV.30.2010

SCHEMATIC DRAWING
TERMINAL BOX

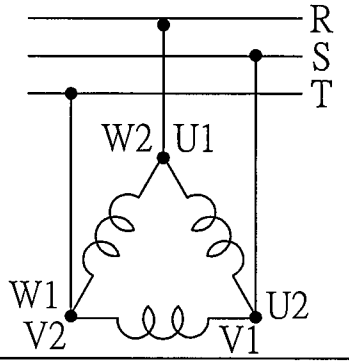
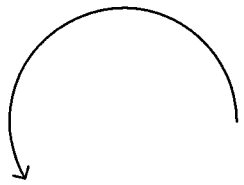
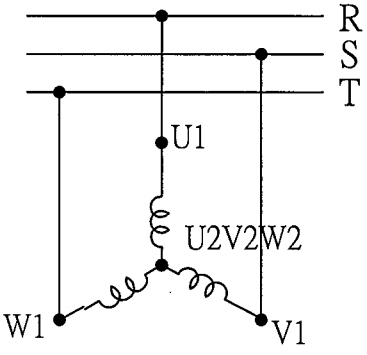
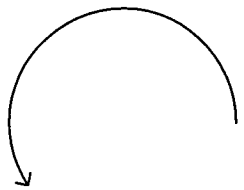
TECO Westinghouse

DWG NO. 3A040U272 REV:04

DATE NOV.30.2010	SCHEMATIC 6 LEADS	MODEL

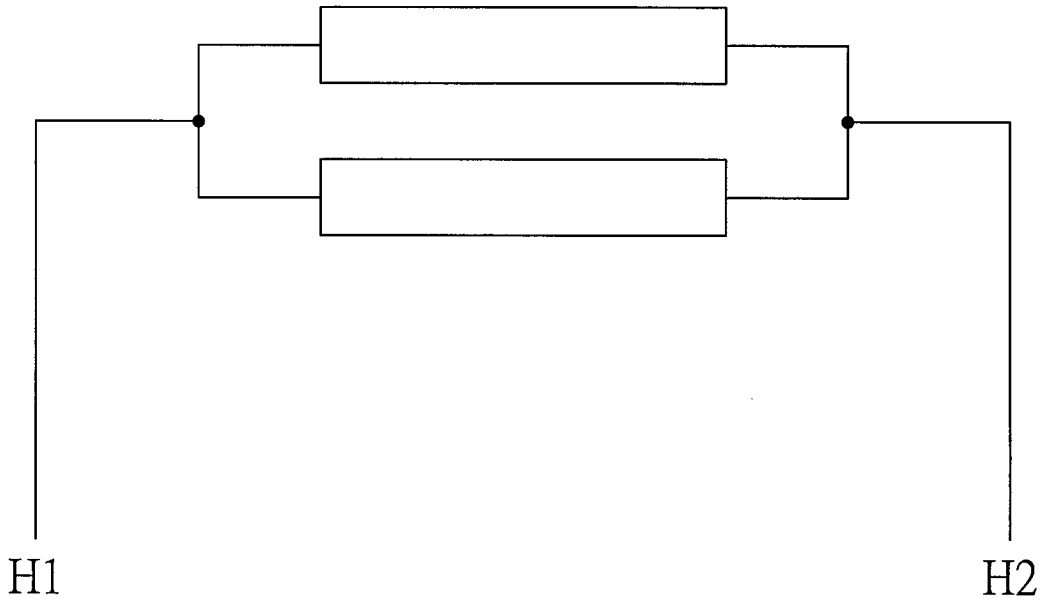


SCHEMATIC DIAGRAM - 6 LEADS

VOLTAGE	CONNECTION	ROTATION (VIEWED FROM DRIVE END)
LOW		
HIGH		

DWN.	S.HUANG	MAR・03・2003	TECO Westinghouse	DWG NO. REV: 00
CHKD.	T.HSIAO	MAR・03・2003		3A061H477
APPD.	T.HSIAO	MAR・03・2003		

DATE NOV.30.2010	SCHEMATIC SPACE HEATER	MODEL



120V 1PH 400W

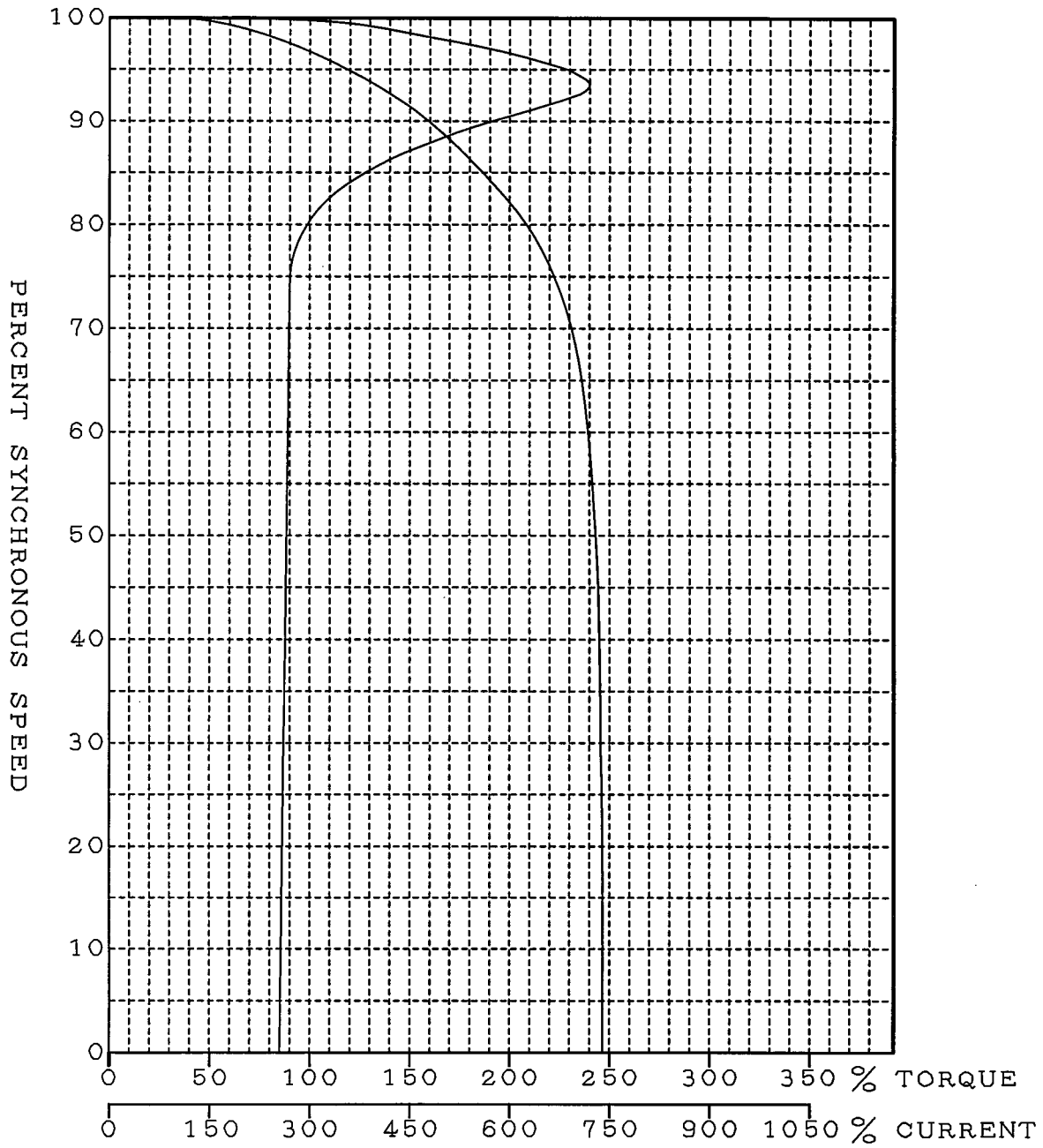
DWN.	S.HUANG	MAR・03・2003	TECO Westinghouse	DWG NO. REV: 00
CHKD.	T.HSIAO	MAR・03・2003		3A061H238
APPD.	T.HSIAO	MAR・03・2003		

NOV.30.2010

INDUCTION MOTOR STARTING CHARACTERISTICS

T—N/I—N CURVE

TYPE:AFJH HP:1250 VOLTS:2300 ORDER NO: FD111031T1
HZ:60 POLES:2 RPM(FLS):3586
LOCK AMPS(%):740 LOCK TORQUE(%):85



DWG.	CF. WENG	20101029
APPD.	T. HSIAO	20101029

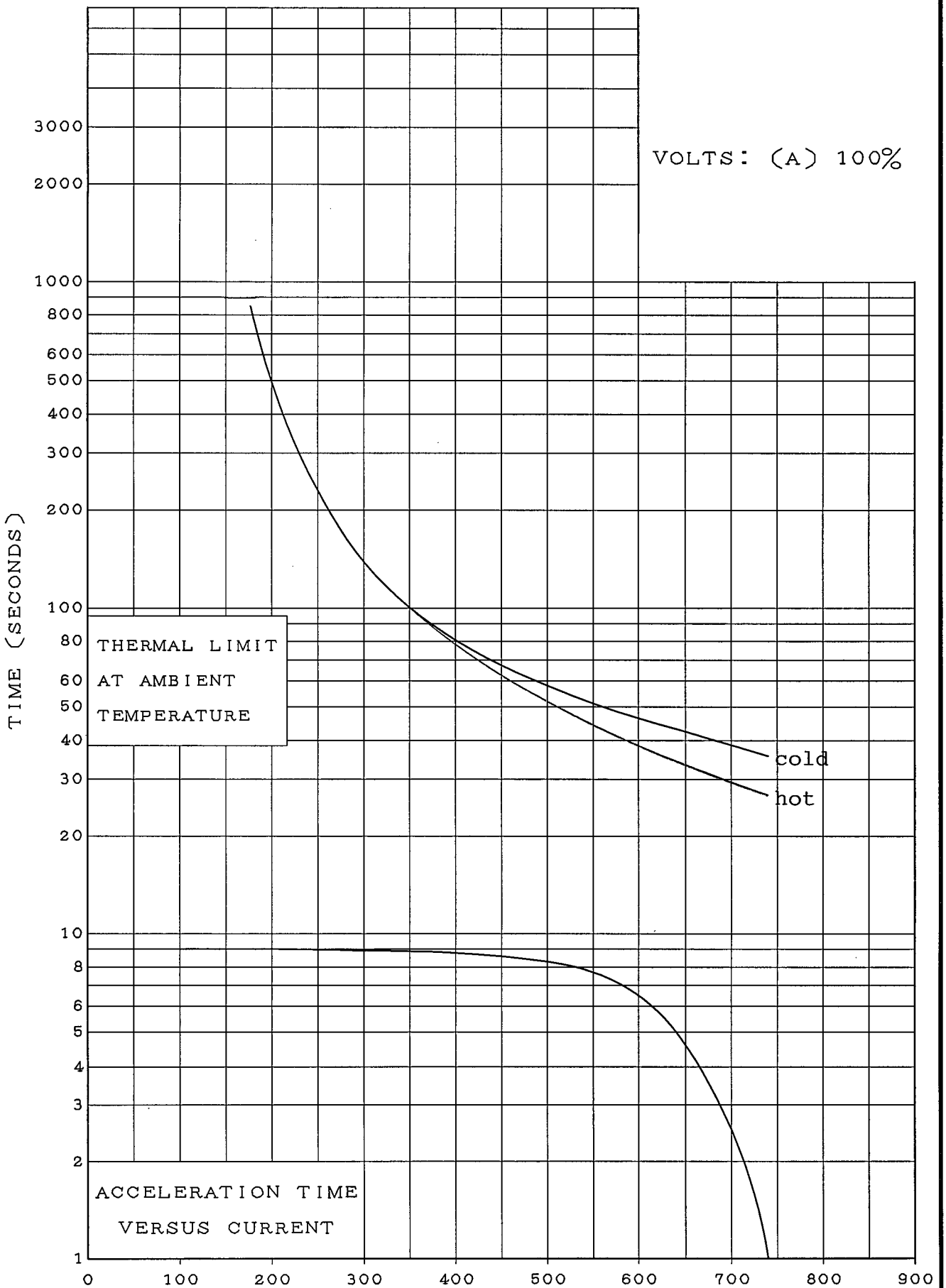
TECO Westinghouse

DWG NO. REV:00
FD111031T1
T—I—N

Input Ver:00

TIME — CURRENT AND THERMAL LIMIT CURVES

LOAD WK² (LB—FT²):790 MOTOR WK² (LB—FT²):485
TYPE:AFJH POLE:2 HP:1250 NO. :FD111031T1



DWG.	CF. WENG	20101029
APPD.	T. HSIAO	20101029

TECO Westinghouse

DWG NO. REV:00
FD111031T1
TIME

Input Ver:01