

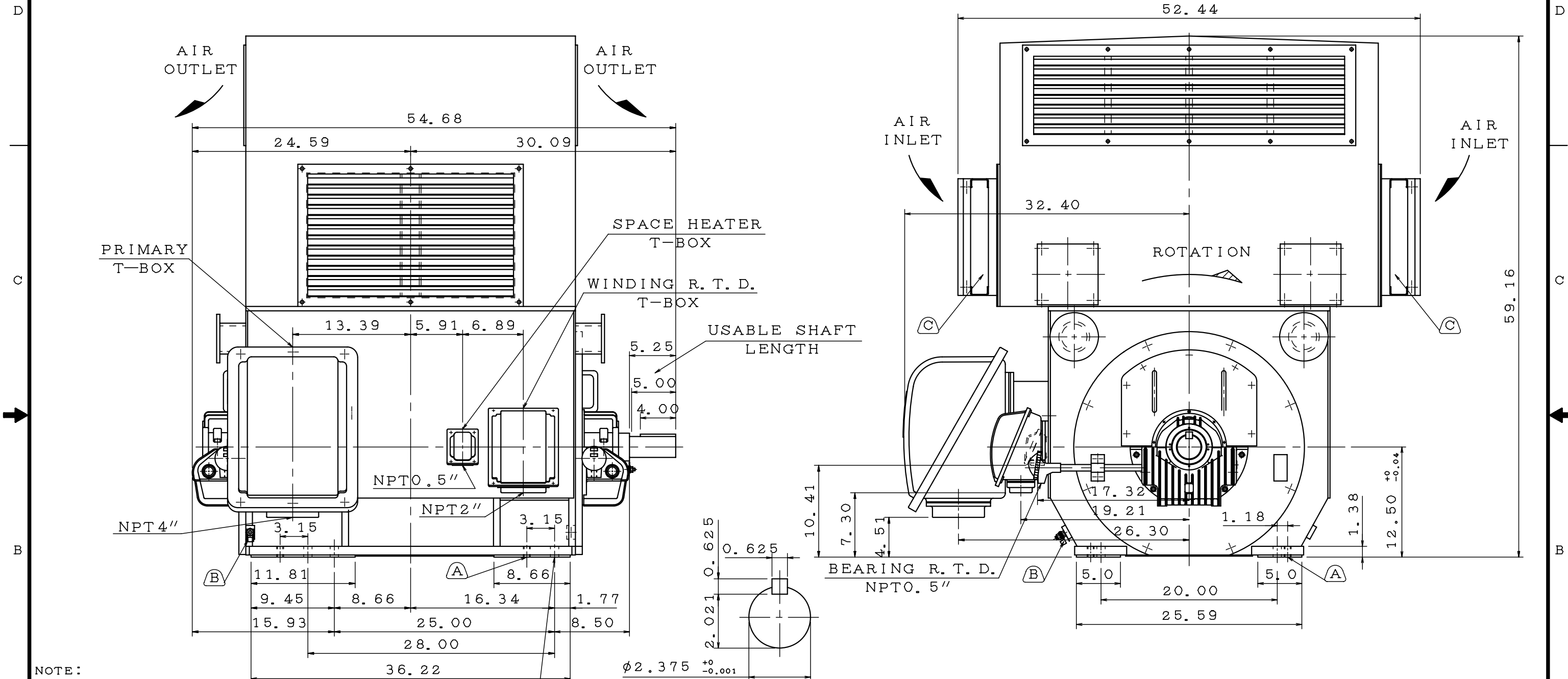
SPECIFICATION TABLE OF 3-PHASE SQUIRREL CAGE INDUCTION MOTOR	CUSTOMER	TWMC	USER	CB1584A
	INQ. NO.	TALCB017 01		
	JOB NO.	AD085234T1	MACHINE	
	TOTAL SETS	2	ITEM NO.	

Item	Terms	Description					
1	Model	ANCA-S2004					
2	Code or Standard	Dimensions	Frame Assignment	Performance	Test		
		NEMA	TWMC	NEMA	NEMA		
3	Rating	400	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 : CW					
7	Drive Method	Direct Coupling					
8	Environment	Amb. Temp.:	-10	~	40		
		Humidity : Less Than			80 %RH		
		Altitude : Up to			3300 FT		
9	Enclosure & Protection	WPII : NEMA Weather Protected Type II			Outdoor		
10	Cooling	IC01 : Self Ventilated Interior Cooling					
11	Mounting	IM1001 : HS, Foot					
12	Dimensions	Dr# 3W040L582(REV.00)	Frame No :	5008			
13	Frame & Bracket	Frame :	Steel Plate	Bracket :	Steel Plate		
14	Fan & Fan Cover	Fan :	---	Fan Cover :	---		
15	Terminal Box	Cast Iron					
16	Lead Terminals	TLK(35-10)X6					
17	Lubricant	Oil Viscosity : ISO VG32					
18	Painting	Color : MUNSELL 7.5B 3.5/0.5					
19	Stator Winding	Ins. Class	F				
20	Rotor Conductor	Cu-Alloy					
21	Starting Performance	CODE H	LRT/FLT		88 %		
22	Operating Performance	% Load	100	75	50	Break Down Torque	
		Amp.	50.2	39.3	29.4		280 %FLT
		At Rated 4160 Volt	Eff.%	94.8	94.6	94.0	Temp. Rise Limit. (Res.)
		P.F.%	87.0	83.5	75.0	Stator 80 °C	
		R.P.M.	3566	3570	3574	AT SF 1.0	
23	Note	1. With Space Heater : 1φ 120/240V 200W 2. With Winding RTD : PT 100Ω/0°C 6pcs 3. With Bearing RTD : PT 100Ω/0°C 2pcs 4. Approx Weight : 4000 LBS					

APPD.	T.Wu	MAR. 5 2008		DWG NO.
CHKD.	F.YANG	FEB. 22 2008		3W057H186-11923A
DWN.	Alei Hu	FEB. 22 2008		REV.00 1/1

TYPE	OUTPUT		POLE	TIME RATING	VOLTAGE V	HZ	SYN. SPEED R. P. M
	HP	kW					
ANCA-S2004	400		2	CONT.	2300/4160	60	3600

NEMA WEATHER PROTECTED TYPE II. SQUIRREL CAGE ROTOR.



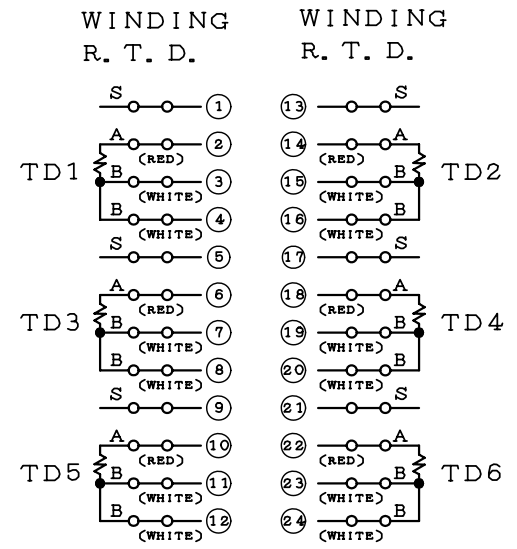
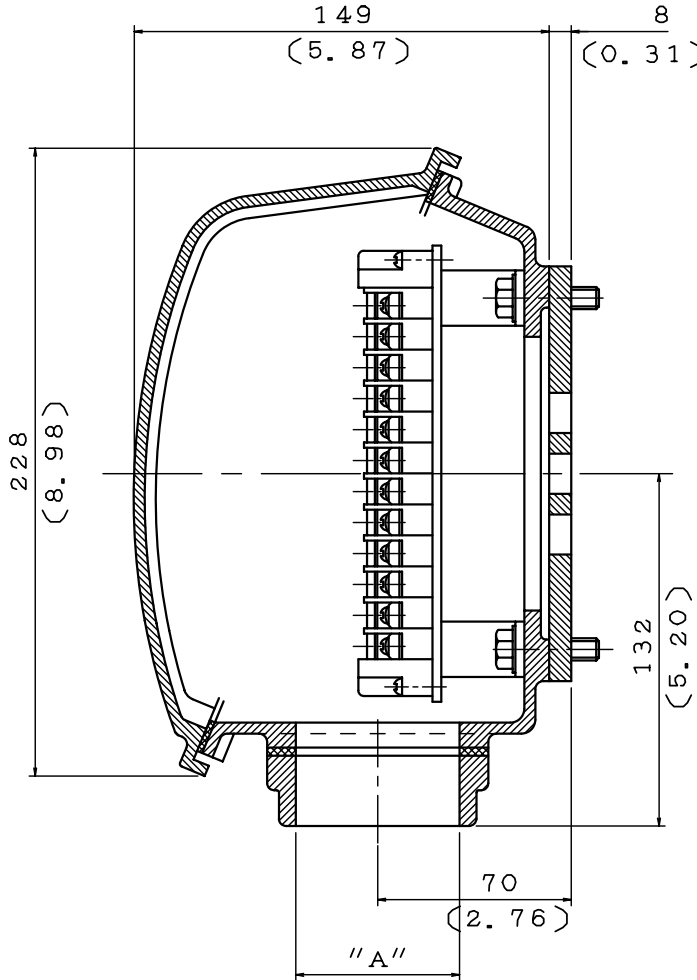
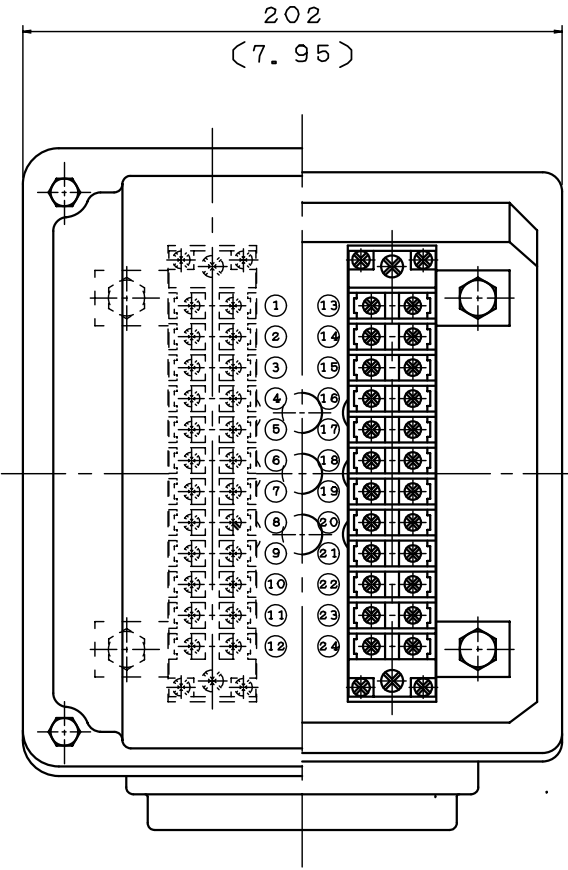
NOTE:

1. DIMENSIONS IN INCHES.
2. FRAME NO. 5008.
3. F CLASS INSULATION, S. F. 1. 15.
4. FOR DIRECT FLEXIBLE COUPLING.
5. SLEEVE TYPE BEARING, AXIAL THRUST LOAD NOT ALLOWED.
6. THE MOTOR ENDPLAY IS  $\pm 0.276$  INCH ( $\pm 7$ MM). A LIMITED END FLOAT TYPE COUPLING IS REQUIRED TO LIMIT ENDPLAY TO  $\pm 0.094$  INCH ( $\pm 2.4$ MM).
7. BEARING SIZE: DRIVE END: 7-65 (UNINSULATED)  
NON-DRIVE END: 7-65 (INSULATED)
8. 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.
9. BEARING LUBRICATION: SELF-LUBRICATION  
A. OIL VISCOSITY: ISO VG32 (140~160 SSU AT 100°F)  
B. OIL CAPACITY: 0.5 GAL (1.9L) FOR EACH BEARING

10. WITH SPACE HEATER:  $1\phi$ , 120/240V, 200W.
11. WITH WINDING R. T. D.: PT 100 $\Omega$ /0°C, 6PCS.
12. WITH BEARING R. T. D.: PT 100 $\Omega$ /0°C, 2PCS.
13. OUTDOOR SERVICE.
14. MOTOR APPROX. WEIGHT: 4000LBS.  
ROTOR APPROX WEIGHT: 650 LBS.
15. LOAD INERTIA WK<sup>2</sup>: 349 LB-FT<sup>2</sup>.  
MOTOR INERTIA WK<sup>2</sup>: 55 LB-FT<sup>2</sup>.

- (A) M20 VERTICAL JACKING HOLE, ONE HOLE PER FOOT.
- (B) TWO M10 TAPPED GROUNDING PADS, DIAGONALLY OPPOSITE, WITH ONLY ONE GROUNDING STUD & TERMINAL LOCATED AS SHOWN.
- (C) FILTERS ARE NOT SUPPLIED, AND THE OPENING ARE CLOSED. RECOMMENDED FILTER SIZE: 275x302x45 MM<sup>3</sup>, 4PCS.

DATE	3-PHASE INDUCTION MOTOR	
DWN. T. WANG JAN. 30. 2008	DWG NO.	REV: 00
CHKD. S. WU JAN. 31. 2008	TECO Westinghouse	
APPD. T. WU JAN. 31. 2008	3W040L582	



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. DIMENSION IN MM(INCHES).
  2. TW-36
  3. WINDING R. T. D. T-BOX.
  4. TD1 & TD2 FOR U(A) PHASE  
TD3 & TD4 FOR V(B) PHASE  
TD5 & TD6 FOR W(C) PHASE.
  5. ORDER NO.
  6. ENCLOSURE: IP65(NEMA 4X)

DATE	SCHEMATIC DRAWING	
	TERMINAL BOX	
DWG NO.	REV:09	
3A040D418		

DWN.	S. WANG	MAR.26.1999
CHKD.	J. PENG	MAR.29.1999
APPD.	A. WU	MAR.29.1999



6

5

4

3

2

1

D

C

B

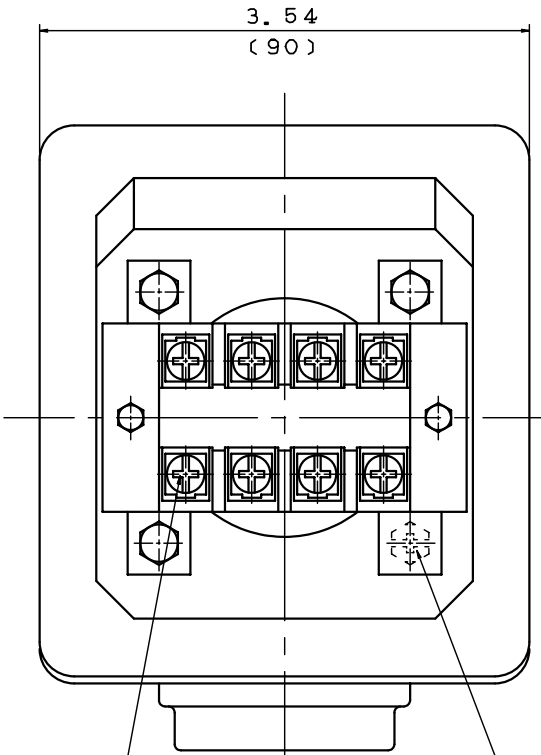
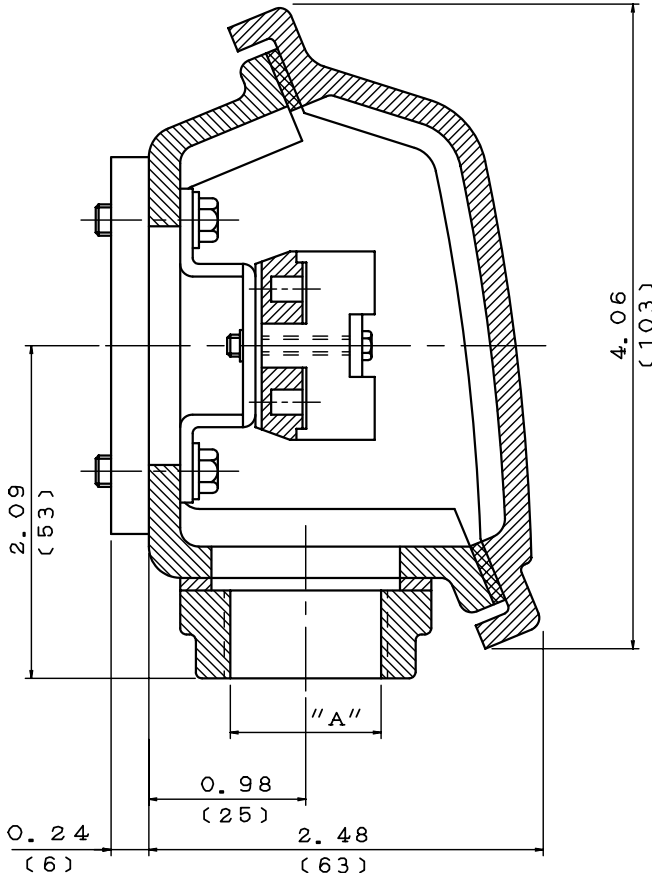
A

D

C

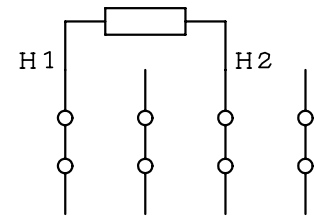
B

A



M4 SCREW FOR CONNECTION

M5 EARTH BOLT



ITEM	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.
  5. ENCLOSURE: IP55.

DATE	SCHEMATIC DRAWING	
	TERMINAL BOX	
DWN. H. HUANG JUL.19.2003	<b>TECO®Westinghouse</b>	DWG NO. REV:02
CHKD. H. HUANG JUL.19.2003		3A040U272
APPD. C. WANG JUL.19.2003		

6

5

4

3

2

1

DWN. H. HUANG JUL.19.2003

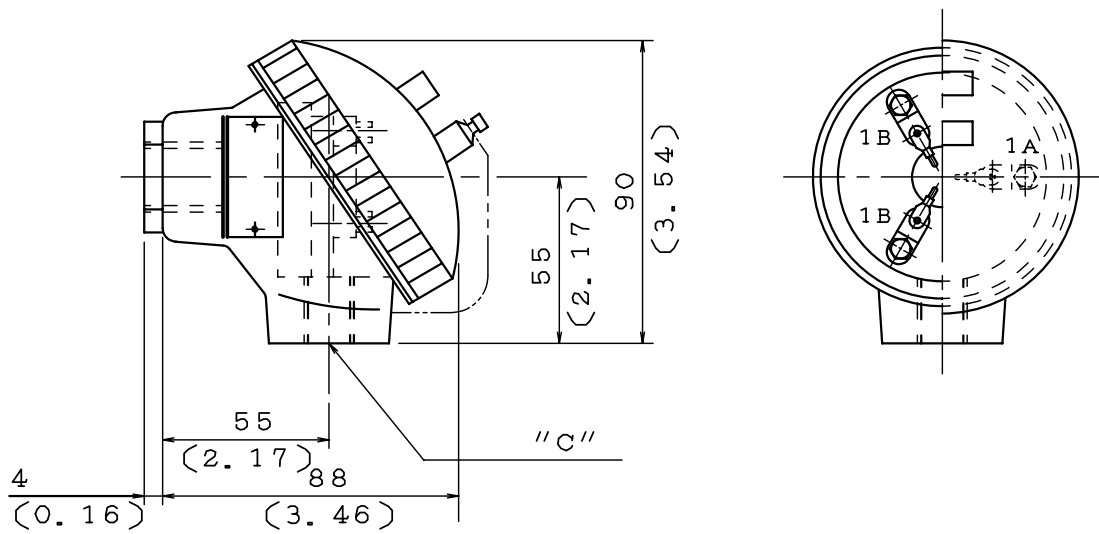
CHKD. H. HUANG JUL.19.2003

APPD. C. WANG JUL.19.2003

**TECO®Westinghouse**

DWG NO. REV:02  
3A040U272

DATE	SCHEMATIC DRAWING RTD T-BOX	MODEL



NOTE:

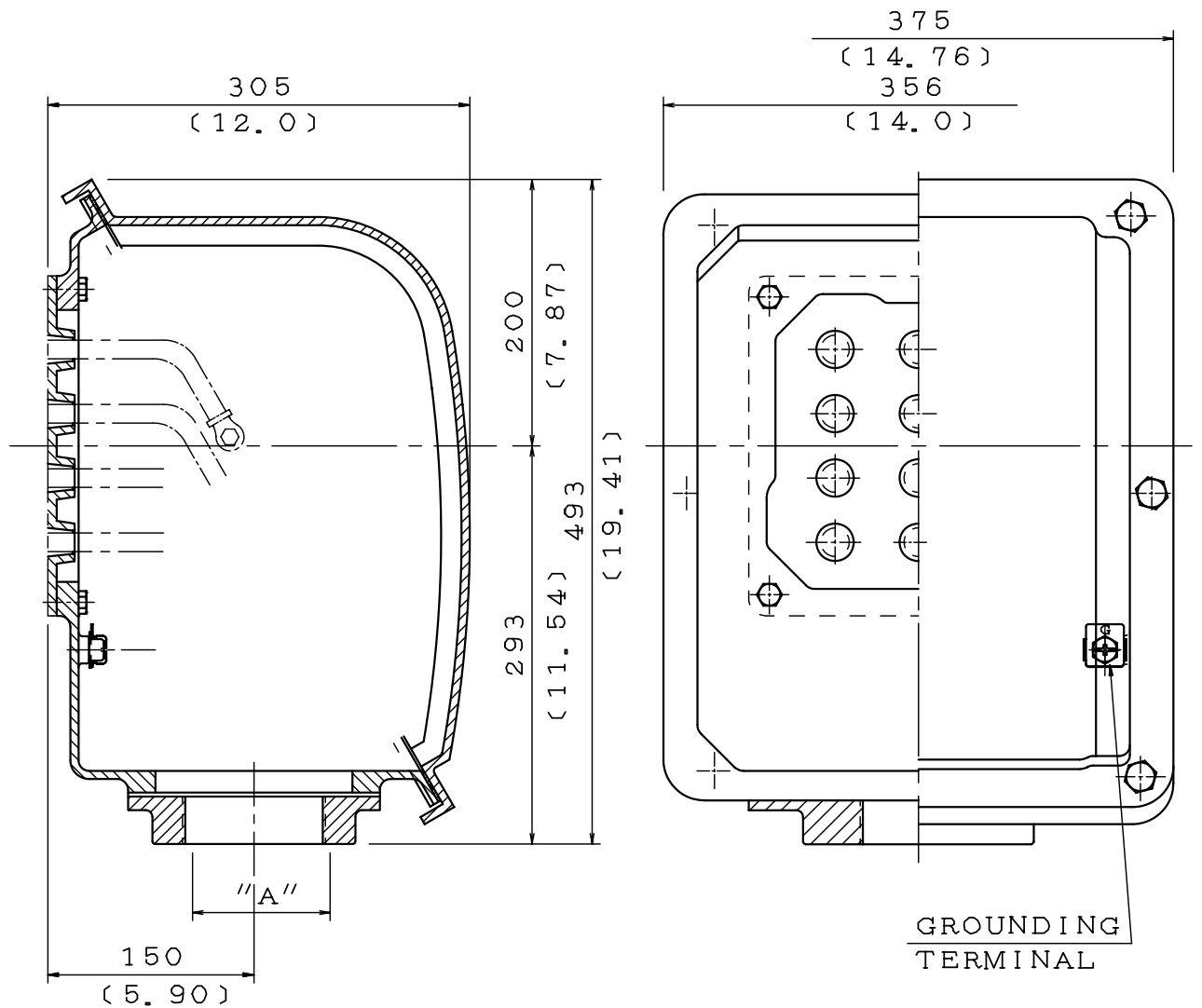
1. DIMENSION IN MM (INCHES).
2. BEARING R. T. D. T-BOX.
3. ORDER NO.

ITEM	C
01	P T0.5"
02	P T0.75"
03	N P T0.5"
04	N P T0.75"
05	P F0.5"
06	P F0.75"
07	M20X1.5

DWN.	H. LIOU	MAR 15 • 1999	<b>TECO</b>  <b>Westinghouse</b>	DWG NO.	REV: 02
CHKD.	J. PENG	MAR 15 • 1999		3A040D412	
APPD.	A. WU	MAR 15 • 1999			

R

DATE	SCHEMATIC DRAWING TERMINAL BOX	MODEL



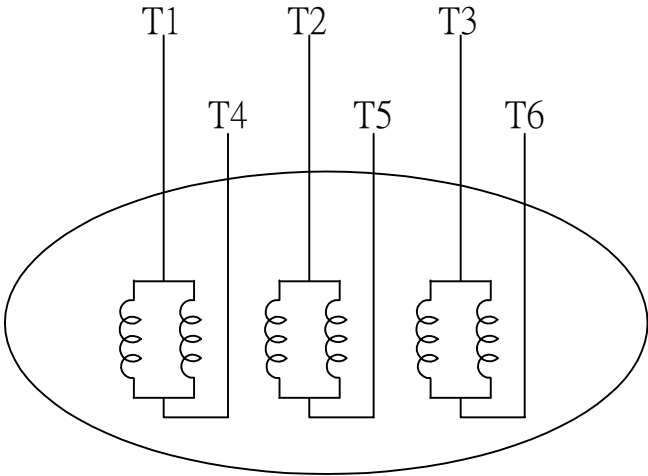
ITEM	A
01	NPT 2"
02	NPT 3"
03	NPT 3.5"
04	NPT 4"
05	NPT 5"
06	PF 2"
07	PF 3"
08	PF 3.5"
09	PF 4"
10	PF 5"

NOTE:

1. DIMENSIONS IN MM(INCHES)
2. TW-66C
3. PRIMARY T-BOX
4. ORDER NO.
5. THIS IS TYPICAL CONSTRUCTION DRAWING,  
SUITABLE FOR 3, 6, 9 AND 12 LEADS' OUTLET.

DWN.	C. LEONG	APR•20 • 2000	<b>TECO</b> ® <b>Westinghouse</b>	DWG NO.	REV:02
CHKD.	B. YANG	APR•22 • 2000		3A040D571	
APPD.	T. CHEN	APR•22 • 2000			

DATE	SCHEMATIC 6 LEADS	MODEL

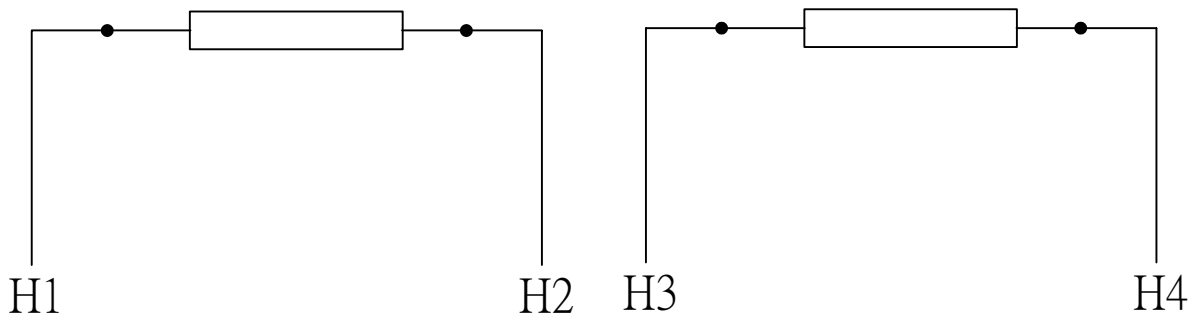


SCHEMATIC DIAGRAM - 6 LEADS

VOLTAGE	CONNECTION	ROTATION ( VIEWED FROM DRIVE END )
LOW		
HIGH		

DWN.	S.HUANG	MAR • 03 • 2003	 MOTOR COMPANY	DWG NO.	REV: 00
CHKD.	T.HSIAO	MAR • 03 • 2003		3 A 0 6 1 H 4 7 4	
APPD.	T.HSIAO	MAR • 03 • 2003			

DATE	SCHEMATIC SPACE HEATER	MODEL



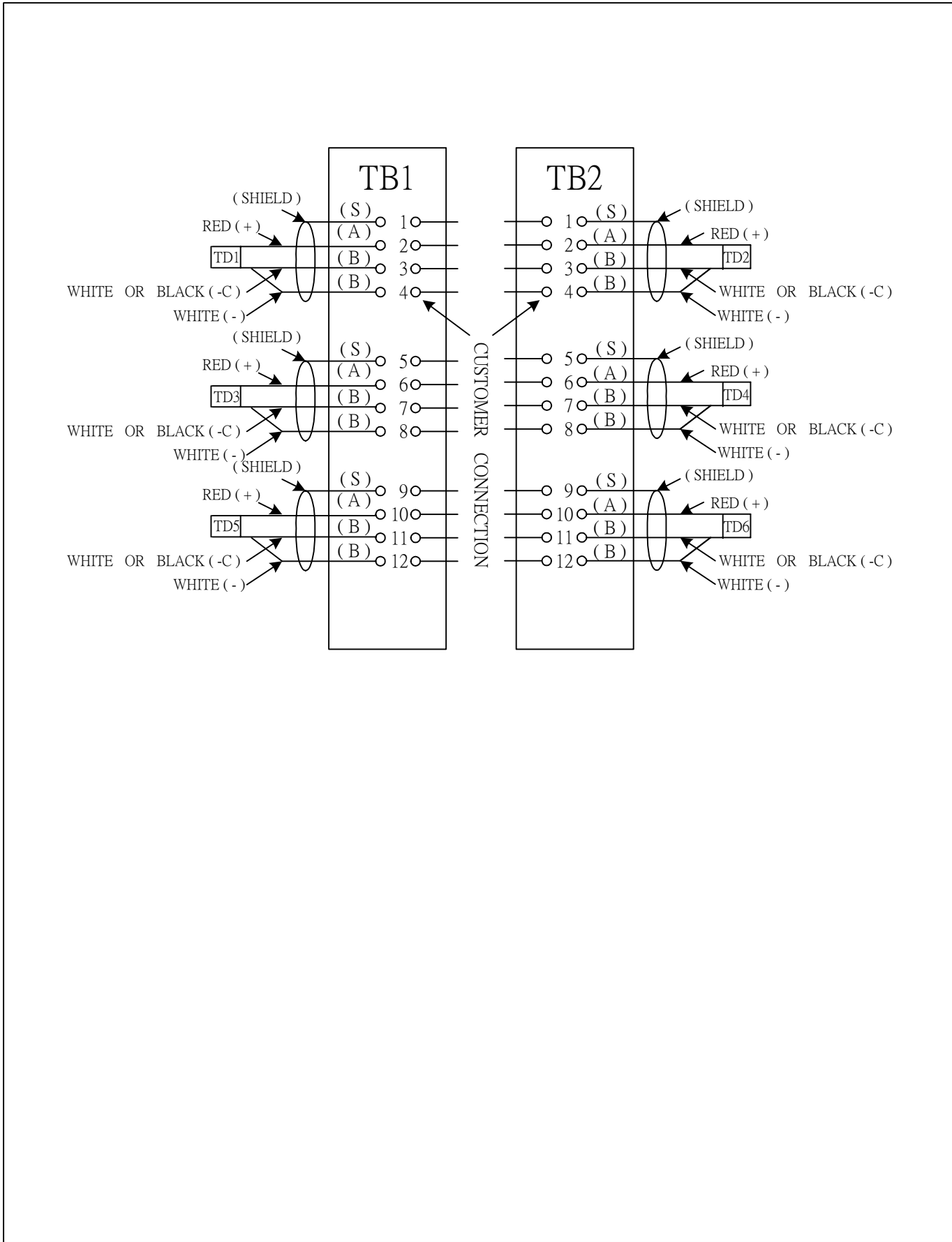
120V 1PH 100W

120V 1PH 100W

DWN.	S.HUANG	MAR · 03 · 2003	 <b>TECO</b> -Westinghouse 	DWG NO.	REV: 00
CHKD.	T.HSIAO	MAR · 03 · 2003		MOTOR COMPANY	3 A 0 6 1 H 3 4 1
APPD.	T.HSIAO	MAR · 03 · 2003			



DATE	<h1>WIRING DIAGRAM</h1>	MODEL



DWN.	S.HUANG	MAR • 03 • 2003	 <b>MOTOR COMPANY</b>	DWG NO.	REV: 00
CHKD.	T.HSIAO	MAR • 03 • 2003		<h2>3A061H512</h2>	
APPD.	C.Y.HUANG	MAR • 03 • 2003			

# INDUCTION MOTOR STARTING CHARACTERISTICS

I-N/T-N CURVE

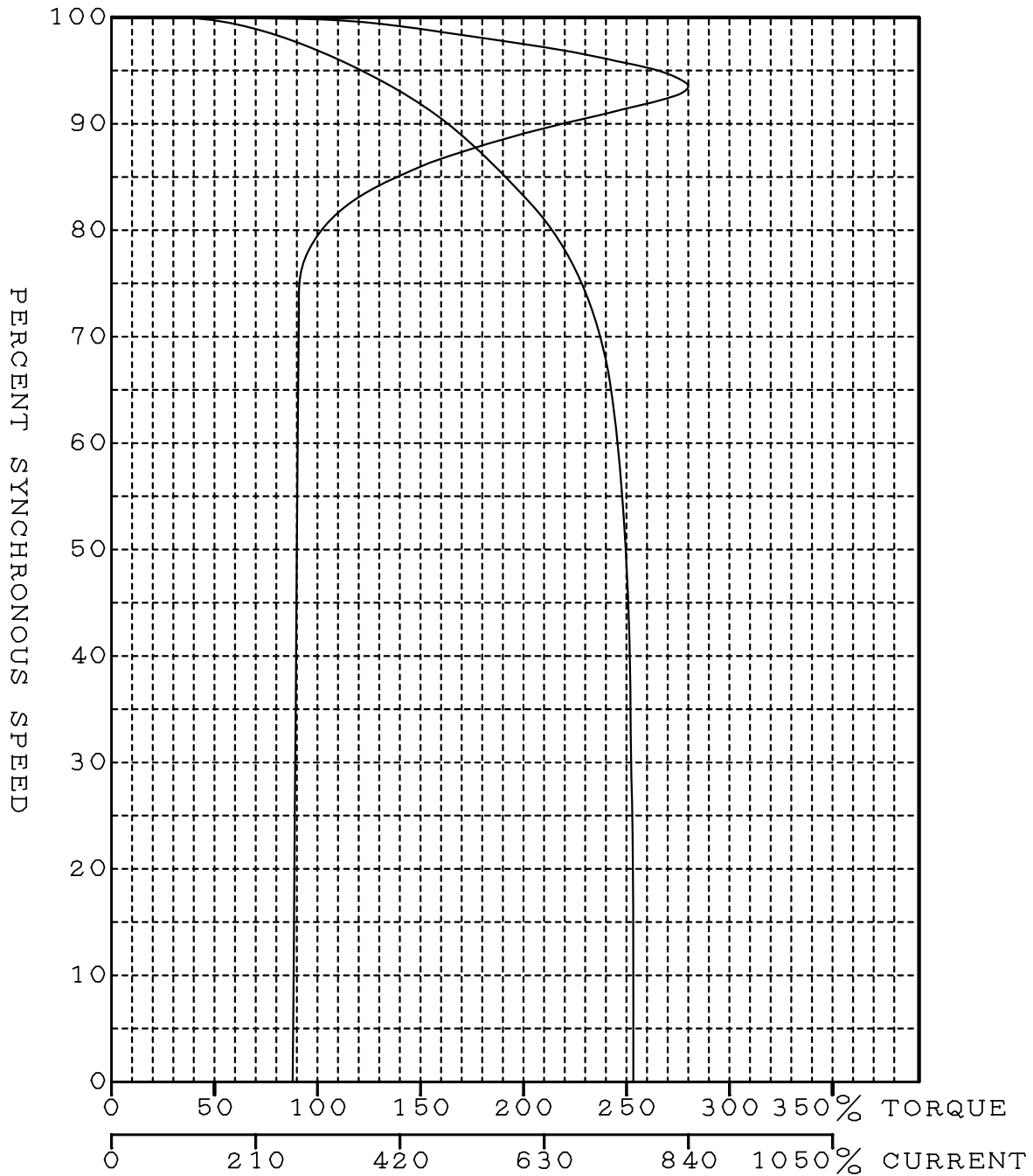
ORDER NO: AD085234T2

TYPE: ANCA

HP: 400 VOLTS: 4160

HZ: 60 POLES: 2

RPM(FLS): 3566



**TECO**  **Westinghouse**

CURVE NO.  
AD085234T2/0  
OI-T

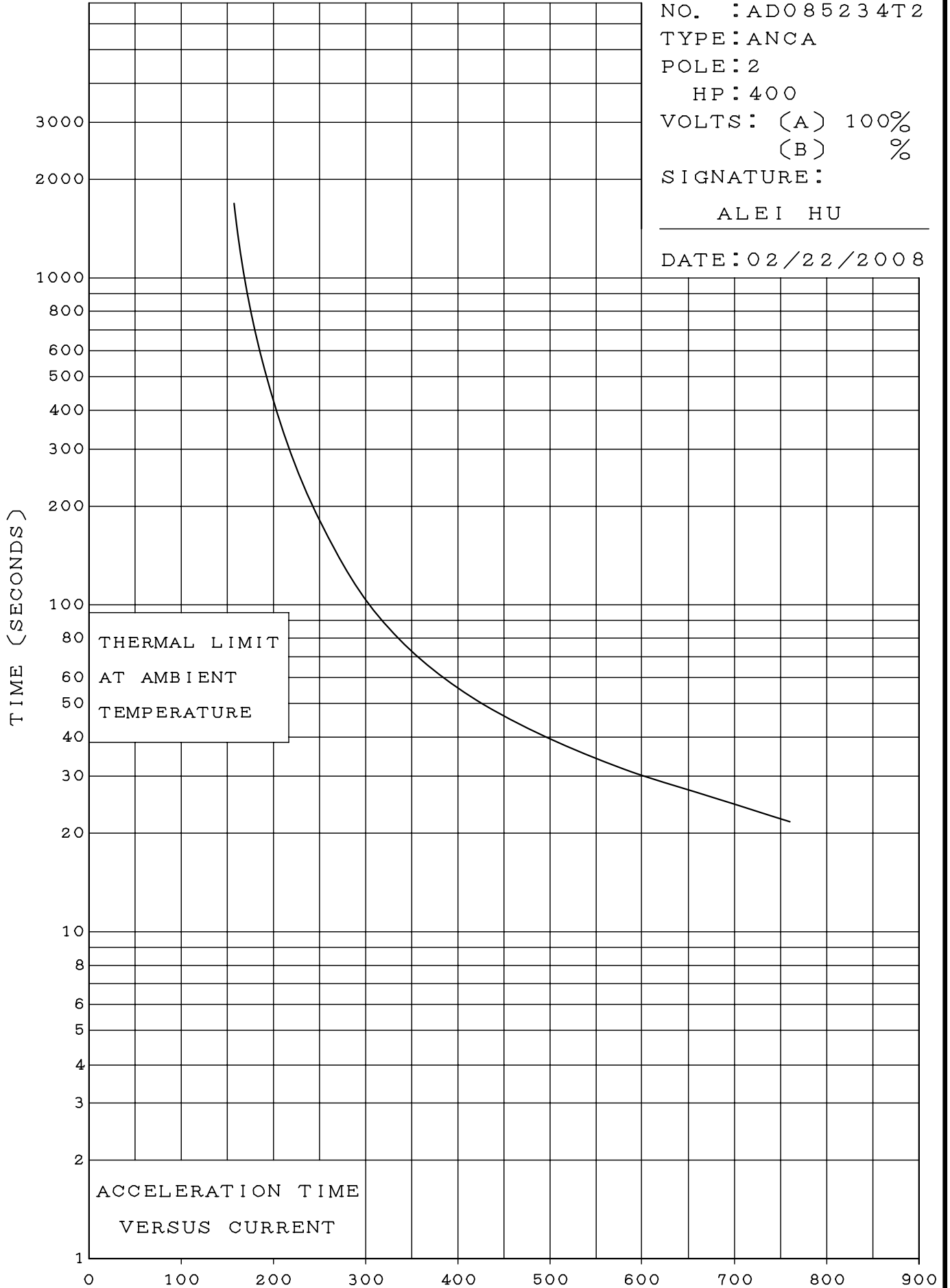
SIGNATURE: ALEI HU

DATE: 02/22/2008

# TIME — CURRENT AND THERMAL LIMIT CURVES

LOAD WK<sup>2</sup> (LB-FT<sup>2</sup>): 349    MOTOR WK<sup>2</sup> (LB-FT<sup>2</sup>): 55

NO. : ADO85234T2  
 TYPE: ANCA  
 POLE: 2  
 HP: 400  
 VOLTS: (A) 100%  
           (B)     %  
 SIGNATURE:  
 \_\_\_\_\_  
 ALEI HU  
 \_\_\_\_\_  
 DATE: 02/22/2008



THERMAL LIMIT  
 AT AMBIENT  
 TEMPERATURE

ACCELERATION TIME  
 VERSUS CURRENT

# INDUCTION MOTOR STARTING CHARACTERISTICS

Efficiency & Power Factor Vs Load Curve

ORDER NO: AD085234T2

TYPE: ANCA

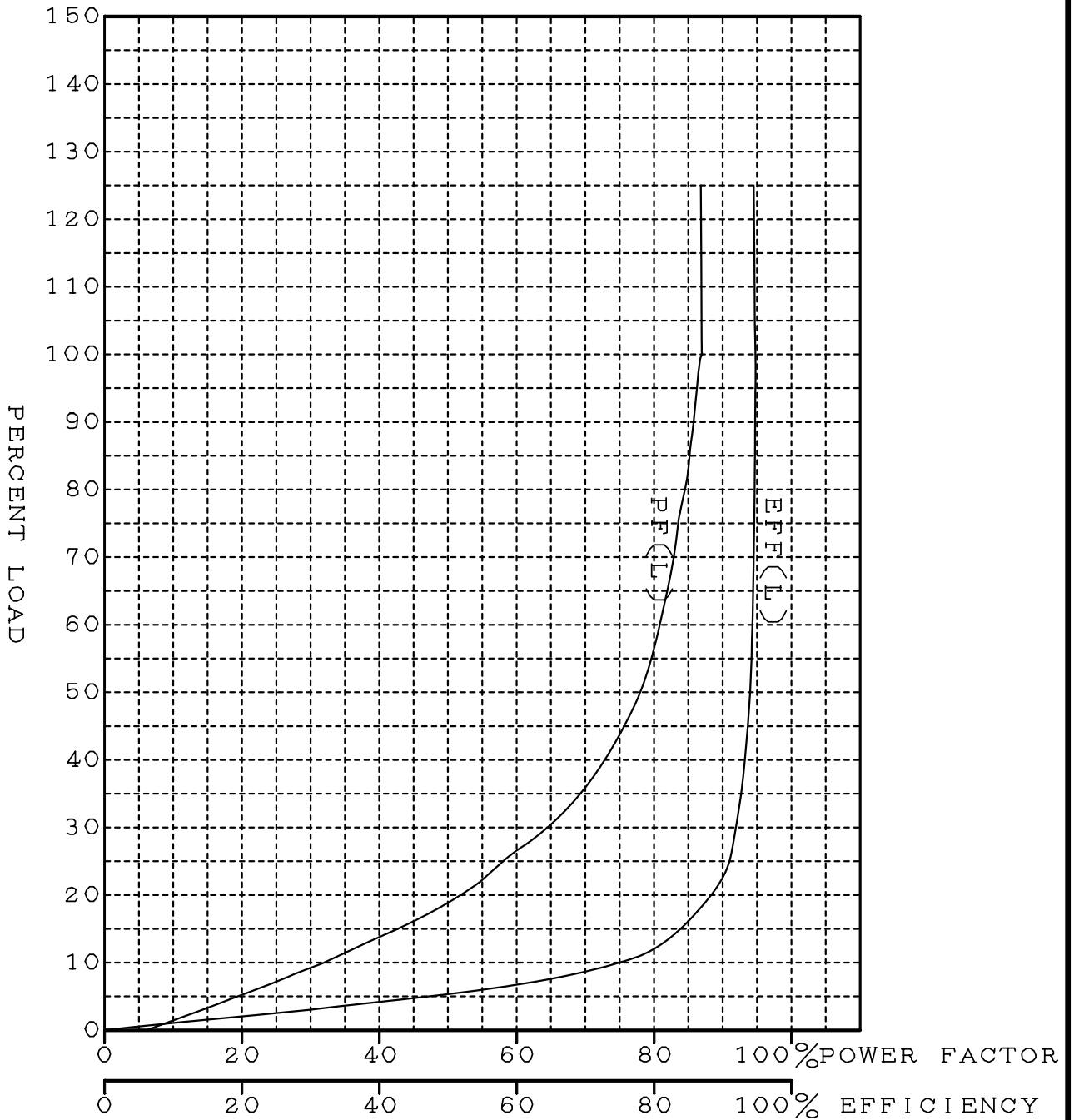
HP: 400

VOLTS: 4160

HZ: 60

POLES: 2

RPM(FLS): 3566



**TECO**  **Westinghouse**

CURVE NO.  
AD085234T2/0  
OP

SIGNATURE: ALEI HU

DATE: 02/22/2008