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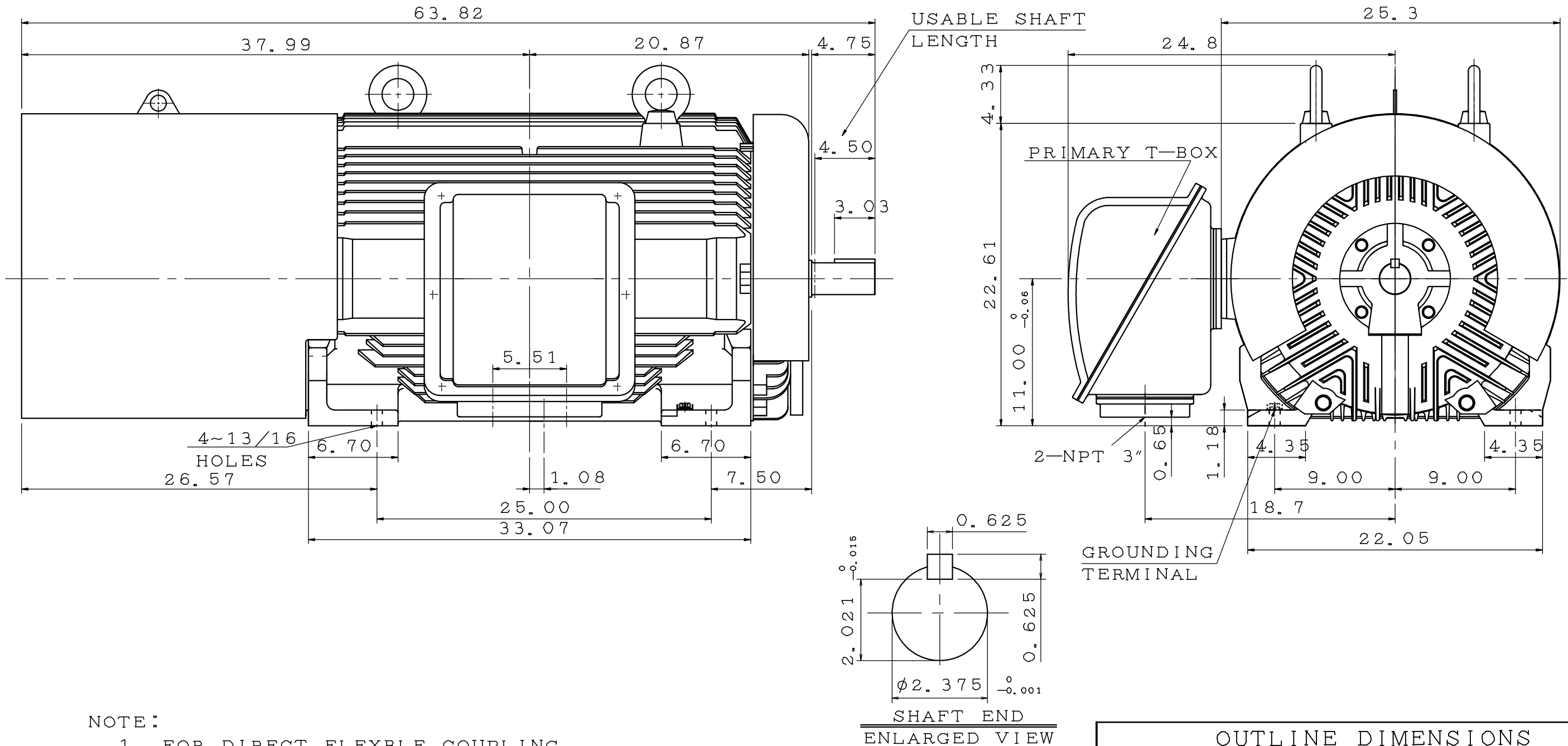
3

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POLE	HP	kW	Hz	VOLT	r/min(RPM)	INS	RATING	DIMENSION IN	APPROX WEIGHT	BEARINGS
2	400	.	60	460/(800)	3600	F	CONT.	INCH	3045 LB	DE:6314C3 NDE:6314C3

G  
F  
E  
D  
C  
B  
A  
第三角法



NOTE:

1. FOR DIRECT FLEXBLE COUPLING
2. ENCLOSURE: IP55 PROTECTION
3. NON-SPARKING FAN
4. DIRECTION OF ROTATION : C. C. W.  
(view from drive end)

OUTLINE DIMENSIONS  
3-PHASE INDUCTION MOTOR

MOTOR TYPE	AEHH8N-11-	FRAME NO.	449TS(X)
CUSTOMER	.	DATE	
ORDER NO.	E9205621T1	TRANS. SHEET	.

APPD.	M. C. JENG	10.05.20
CHKD.	C. T. CHEN	10.05.20
DWG.	C. T. CHEN	09.28.20

**TECO** Westinghouse

DWG NO.  
31057C578670

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SPECIFICATION TABLE OF 3-PHASE SQUIRREL CAGE INDUCTION MOTOR	CUSTOMER		USER	
	INQ. NO.		EQUIPMENT	
	JOB NO.	E9205621T1	MACHINE	
	TOTAL SETS		ITEM NO.	

Item	Terms	Description				
1	Model	AEHH8N				
2	Code or Standard	Dimensions	Frame Assignment	Performance	Test	
		NEMA	TECO	NEMA	NEMA	
3	Rating	400 HP 2 Pole 460/(800) Volt 3 Phase 60 Hz (can be used in 50Hz 380V)				
4	Service Duty	Continuous Rating , Service Factor 1.15				
5	Starting Method	D.O.L(Direct On Line) or V.V.V.F(Variable Voltage Variable Frequency) or Y-Δ Starting				
6	Rotation	Facing The Drive End : CCW(Counter ClockWise)				
7	Drive Method	Direct Coupling				
8	Environment	Amb. Temp. : -15 ~ 40 °C				
		Humidity : Less Than 90 %RH				
		Altitude : Up to 3300 FT				
9	Enclosure & Protection	IP55 : Totally Enclosed		Indoor		
10	Cooling	TEFC: Totally Enclosed Fan Cooled				
11	Mounting	IM1001 : HS, Foot				
12	Dimensions	Dr# 31057C57867		Frame No : 449TS(X)		
13	Frame & Bracket	Frame : Cast Iron		Bracket : Cast Iron		
14	Fan & Fan Cover	Fan :Alumium		Fan Cover :Steel plate		
15	Terminal Box	Cast Iron				
16	Lead Terminals	[(R38-16)X2]X6				
17	Lubricant	ESSO Polyrex EM Grease				
18	Painting	Color : NO.700 MUNSELL N1.0				
19	Stator Winding	Ins. Class F				
20	Rotor Conductor	Al-Die Cast		WK^2 : 69.77 Lb-ft^2		
21	Starting Performance	LRC 60Hz 2600Amp / 50Hz 2600Amp		LRT 60Hz 160% / 50Hz 120% FLT		
22	Operating Performance	Hz/V	60/460	50/380	Break Down Torque 60Hz 300% FLT 50Hz 280% FLT	
		%Load	100	100		
		Amp.	438	536		
		*LRC=Lock Rotor Current	Eff.%	95.8	95.5	Temp. Rise Limit. (Resistance) Stator 115 °C 60Hz At S.F. 1.15
		*LRT/FLT=Lock Rotor Torque/Full Load Torque	P.F.%	88.5	88.0	
		*FLT=Full Load Torque	R.P.M.	3576	2965	
23	Approximate Weight					
24	Note	1.Tolerances according to NEMA MG1-12 & IEC60034-1 2.Ratings Data : VT 20:1 、 CT 3:1 、 CHP 1:1				

APPD.	Wanghy	Oct. 5 2020		DWG NO.	31057R001-32422
CHKD.	Wanghy	Oct. 5 2020		REV.01	
DWN.	robo8898	Oct. 5 2020		1/1	

# TECO Westinghouse

ISSUED <b>10/05/20</b>	<b>PERFORMANCE DATA</b>	ENCLOSURE
TYPE <b>AEHH8N</b>	<b>3-PHASE INDUCTION MOTOR</b>	CATALOG# <b>E9205621T1</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
<b>400</b>	<b>298</b>	<b>2</b>	<b>449TS(X)</b>	<b>460</b>	<b>60</b>	<b>40</b>	<b>F</b>	<b>B</b>	<b>CONT.</b>	<b>1.15</b>

### TYPICAL PERFORMANCE

FULL LOAD RPM	EFFICIENCY				POWER FACTOR		
	FULL LOAD		3/4 LOAD	1/2 LOAD	F. L.	3/4 LOAD	1/2 LOAD
	NOM. %	MIN. %	%	%	%	%	%
<b>3576</b>	<b>95.8</b>	<b>95.0</b>	<b>96.4</b>	<b>96.0</b>	<b>88.5</b>	<b>87.5</b>	<b>83.0</b>

CURRENTS			NEMA KVA CODE LETTER
NO LOAD	FULL LOAD	LOCKED ROTOR	
<b>91.9</b>	<b>438</b>	<b>2600</b>	<b>G</b>

TORQUE				INERTIA			ACCEL TIME	
FULL LOAD lb-ft	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT	ROTOR WR <sup>2</sup> lb-ft <sup>2</sup>	NEMA LOAD WK <sup>2</sup> lb-ft <sup>2</sup>	MAX ALLOWABLE WK <sup>2</sup> lb-ft <sup>2</sup>	NEMA LOAD WK <sup>2</sup> Sec	MAX ALLOWABLE WK <sup>2</sup> Sec
<b>591</b>	<b>160</b>	<b>130</b>	<b>300</b>	<b>59.8</b>	<b>315</b>	—	<b>6</b>	—

SAFE STALL TIME IN SECONDS		ALLOWABLE STARTS PER HOUR		SOUND PRESSURE LEVEL @ 3 FT dB(A)
COLD	HOT	COLD	HOT	
<b>20</b>	<b>15</b>	<b>2</b>	<b>1</b>	—

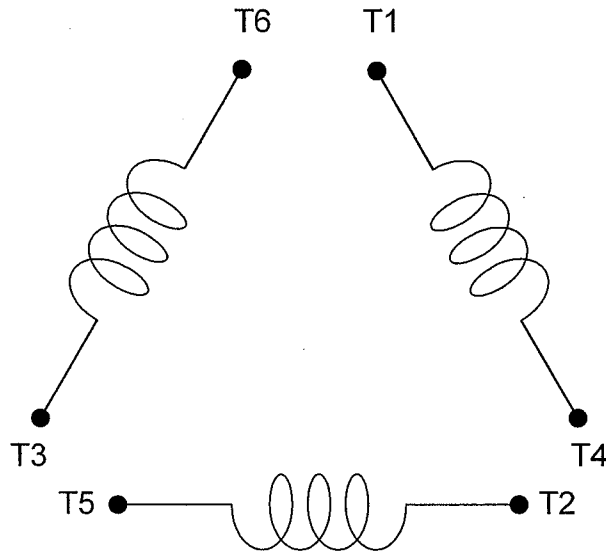
APPROVED:	<b>Wanghy</b>	DRAWING NO.	<b>P.J. HUANG</b>	REVISION <b>1</b>
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**TECO****CONNECTION DIAGRAM**

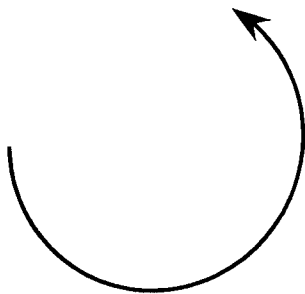
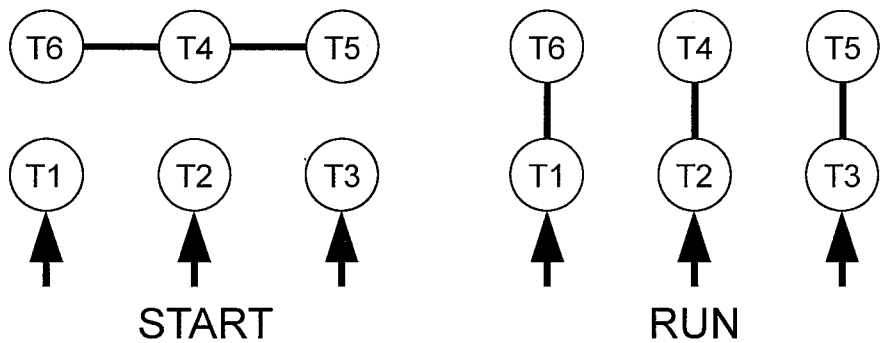
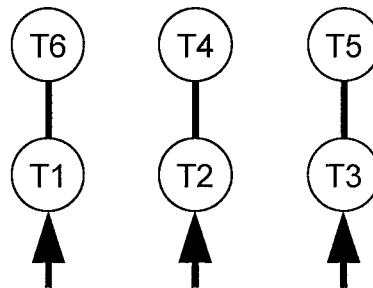
MODEL

DATE :  
DEC.04.'02For  $\Delta/\Delta$  connection

DAC-1545-1

SCHEMATIC -  $\Delta/\Delta$  CONNECTION**ROTATION**

(VIEWED FROM DRIVE END)

**CONNECTION** $\Delta-\Delta$  START**ACROSS-THE-LINE**

承	認		
審	核	蔡	Dec.05.02
校	對	林	Dec.04.02
繪	製	林賢龍	DEC,04,'02

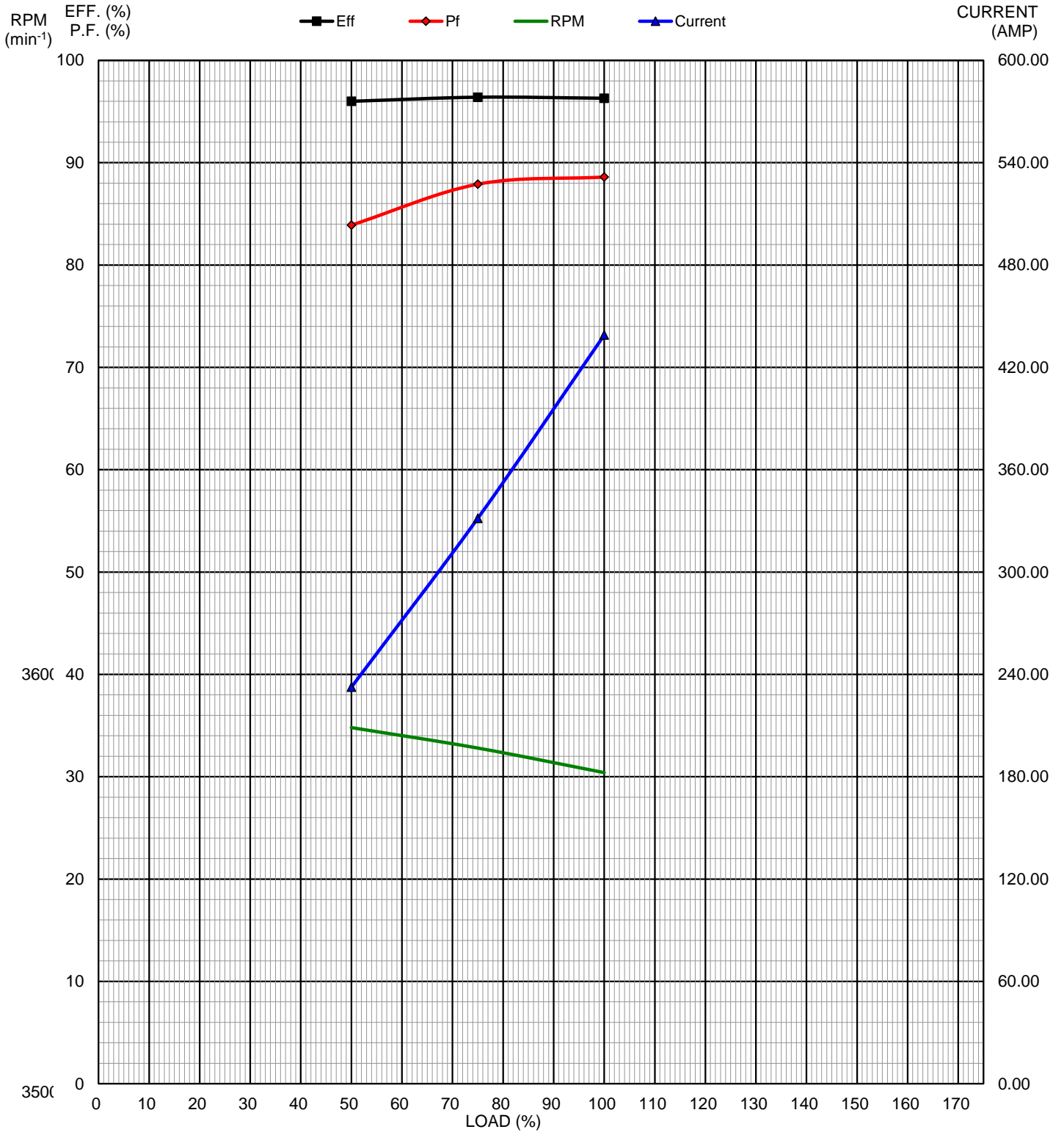
**東元電機股份有限公司**  
TECO ELECTRIC & MACHINERY CO., LTD.  
TAIWAN R.O.C.

圖 號：  
DAC-1545-1

# THREE PHASE INDUCTION MOTOR LOAD CHARACTERISTIC CURVE

NO. : TTALR20032001  
 POLE : 2  
 HZ : 60

TYPE : AEHH8N  
 HP : 400  
 VOLT. : 460



APPD.	Yang.Ben	20201005
CHKD.	Wang	20201005
DWN.	ROBOHUANG	20201005



DWG NO. Rev.01  
 TTALR20032001  
 E-P-C-S

# T-N CURVE

NO.: TTALR20032001

TYPE: AEHH8N

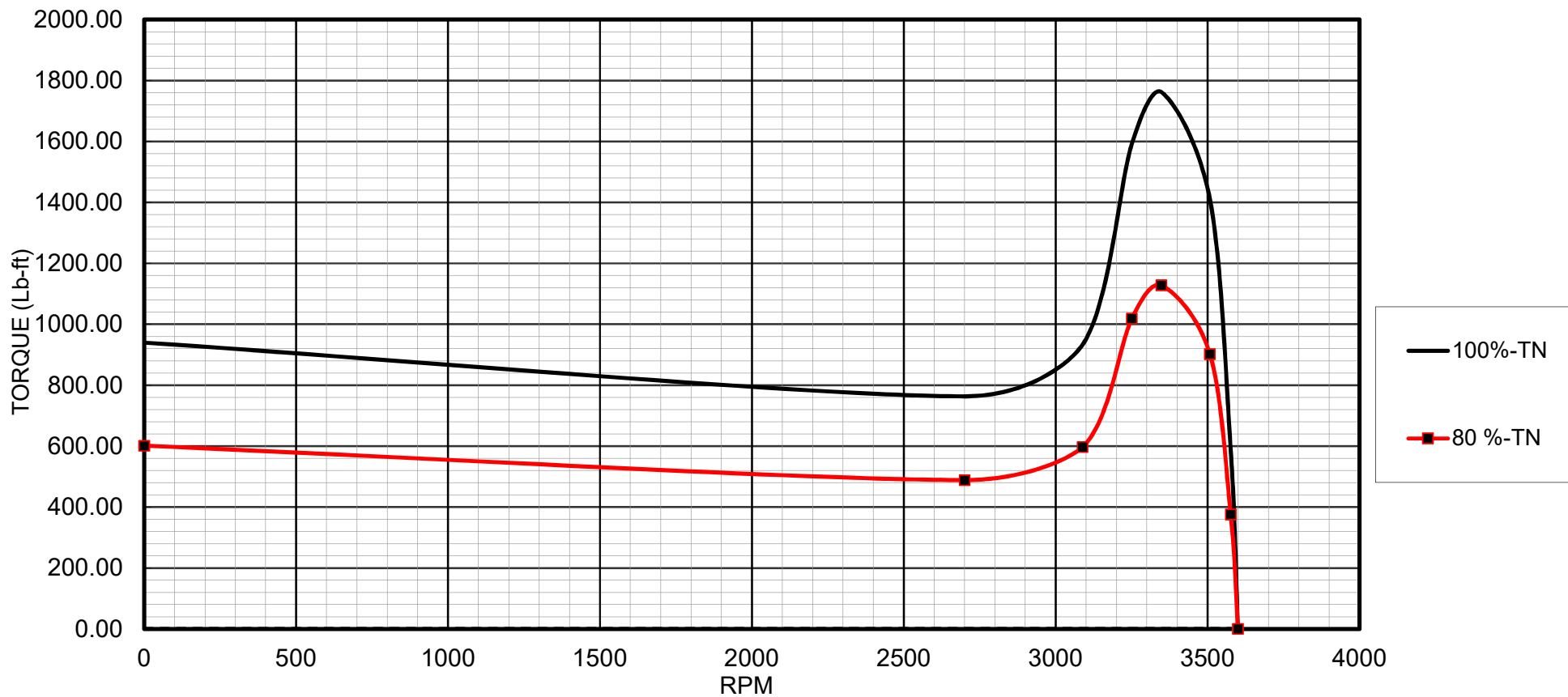
HZ: 60

POLE: 2

VOLT.: 460

HP : 400

Ts : 939.7 Lb-ft  
 Tmin. : 763.5 Lb-ft  
 Tmax. : 1761.9 Lb-ft  
 Tf : 587.3 Lb-ft



APPD.	Wang	20201005
CHKD.	Wang	20201005
DWN.	ROBOHUANG	20201005



DWG NO. Rev.01

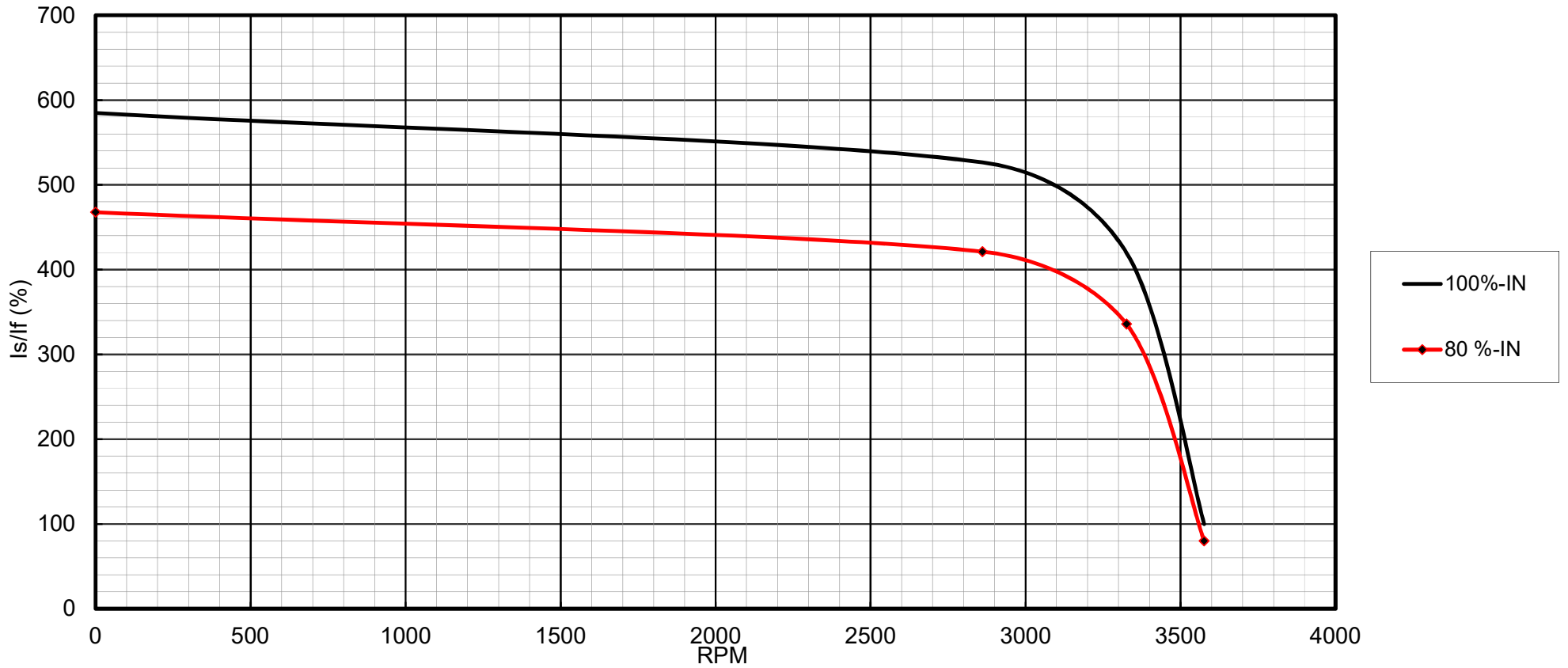
T-N

# I-N CURVE

NO. : TTALR20032001  
POLE : 2  
HZ : 60

TYPE : AEHH8N  
HP : 400  
VOLT. : 460

Full load current : 438 A  
Lock rotor current / Full load current : 584 %



APPD.	Wang	20201005
CHKD.	Wang	20201005
DWN.	ROBOHUANG	20201005

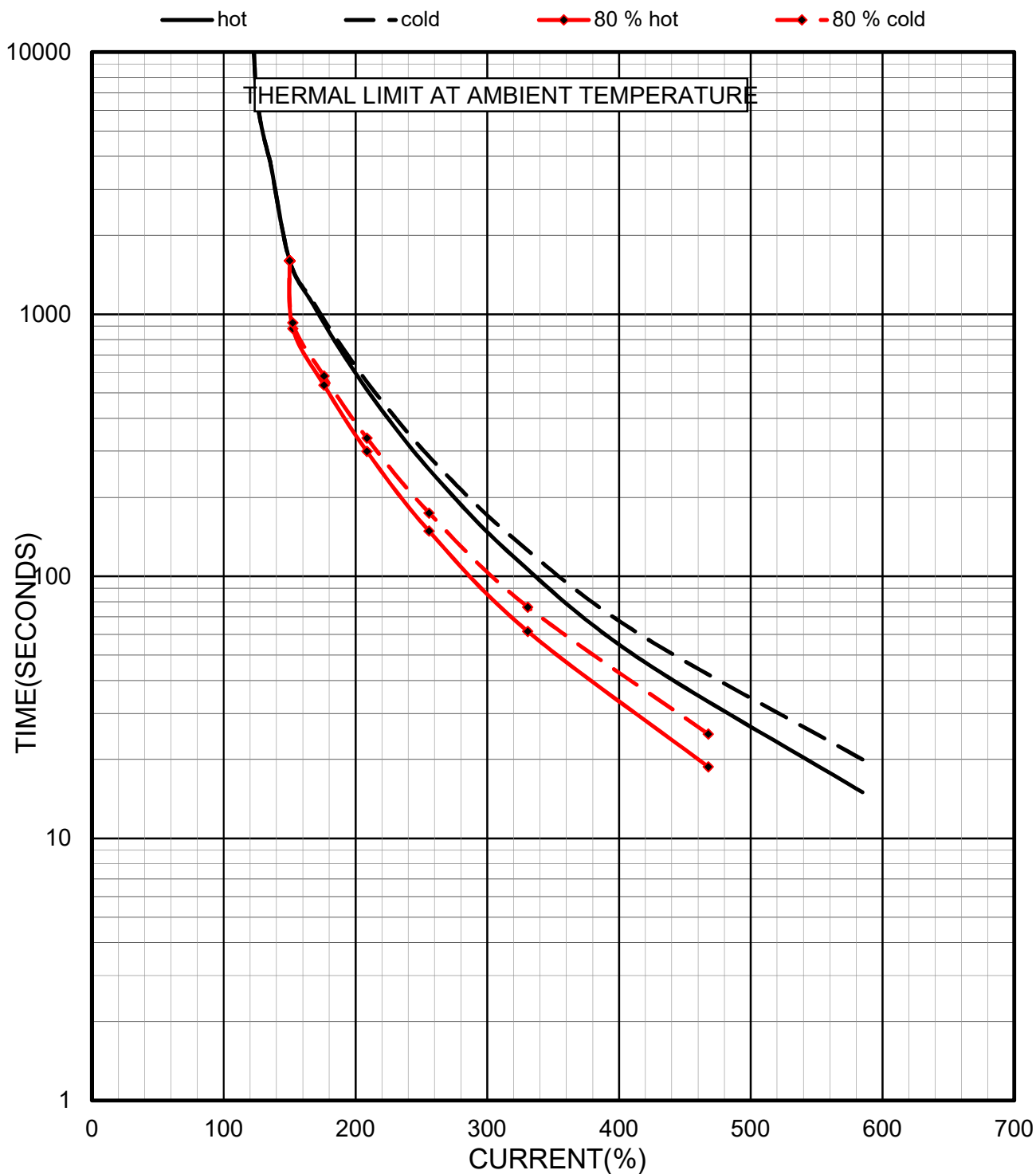
**TECO**   **Westinghouse**

DWG NO. Rev.01

I-N

# THERMAL LIMIT CURVES

NO. : TTALR20032001	TYPE : AEHH8N
POLE : 2	HP : 400
HZ : 60	VOLT. : 460
Load WK2 (LB-FT2) : 315	
Motor WK2 (LB-FT2) : 69.3	
Full load current : 438 A	



APPD.	Wang	20201005
CHKD.	Wang	20201005
DWN.	ROBOHUANG	20201005



DWG NO. Rev.01  
TIME