

MODEL NUMBER	HHI50-12-365TC		
HORSEPOWER	50		
RPM / POLES	1200 / 6		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	365TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1185 RPM		
SERVICE FACTOR	1.15 SF at 40° C / 1.0 SF at 65° C		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 230 / 460	120.4 / 60.2 A Usable On 208 V At 133 A		
LOCKED ROTOR CURRENT (% Full Load)	680 / 680 %		
NEMA CODE LETTER	H		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	94.1 %	82.0 %
	75 %	94.3 %	80.0 %
	50 %	94.0 %	73.5 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	220.0 lb.ft.	150 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	1500.593 lb.ft. ²	32.000 lb.ft. ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	72 dB(A)		
NUMBER OF STARTS (Hot / Cold)	2 Hot / 3 Cold		
MAX. AMBIENT TEMPERATURE	40° C at 1.15 SF / 65° C at 1.0 SF		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DRIVE-END BEARING	6314C3		
OPPOSITE DRIVE-END BEARING	6213C3		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	840 lbs.		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
INVERTER RATING	10:1 CT / 20:1 VT - Meets NEMA MG1 Part 31		
SPECIFICATION - In Accordance With	NEMA, CSA		

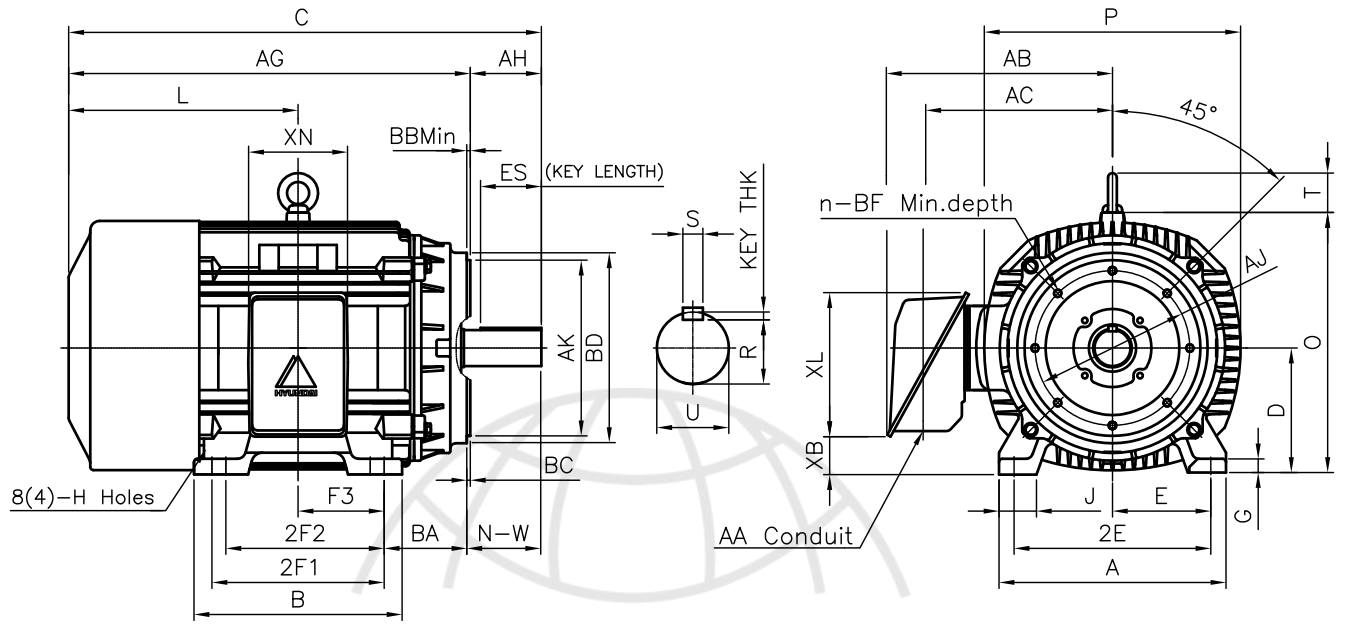


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		<h1>TEFC</h1>		<h2>TYPE</h2>		LP, JP	
		<h3>THREE PHASE INDUCTION MOTOR</h3>				Cast iron frame	

FRAME SIZE	OUTPUT(HP)	POLES	Hz	TIME RATING
365TC			60	CONT



DIMENSIONS

M O U N T I N G									C O N D U I T B O X					APPROX. WGT.(LB)	
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
16.14	14.92	14.00	12.25	(11.25)	6.122	0.98	2.72	0.66	3.00	17.13	13.82	2.70	10.24	7.09	820

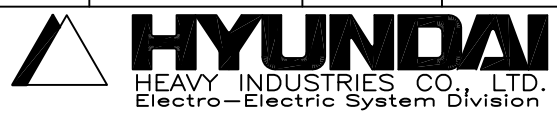
O V E R A L L									S H A F T				KEY	BEARING	
BA	C	D	L	O	P	T	AG	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
										R	ES	S			
5.88	34.01	9.00	16.13	18.50	17.75	2.80	28.13	2.375	5.88	2.021	4.28	0.625	0.625	6314C3	6213C3

C - F A C E								
AJ	AK	BB Min	BC	BD	BF	BF depth	n	AH
11.00	12.50	0.25	0.25	13.38	5/8-11	0.94	8	5.62

NOTE

- 1.Dimension "D" tolerance : +0.00inch ~ -0.03inch (143TC-365TC) : +0.000inch ~ -0.06inch (404TC-449TC)
- 2.Dimension "U" tolerance : +0.000inch ~ -0.0005inch (143TC-215TC): +0.000inch ~ -0.001inch (254TC-449TC)
- 3.Dimension "R" tolerance : +0.000inch ~ - 0.015inch
- 4.Dimension "AK" tolerance : +0.000inch ~ -0.003inch (143TC-286TC): +0.000inch ~ -0.005inch (324TC-449TC)

APPD BY	K.J. KANG	UNIT	INCH	SUBJECT	365TC	CAD PROJ \ FILE	
CHKD BY		SCALE	N/S	TITLE	<h1>OUTLINE</h1>	MMSTDMTR\A1314AA	
CHKD BY		PROJEC'N	3rd Angle				
DSND BY	N.D.LEE	DATE	2011.02.09				

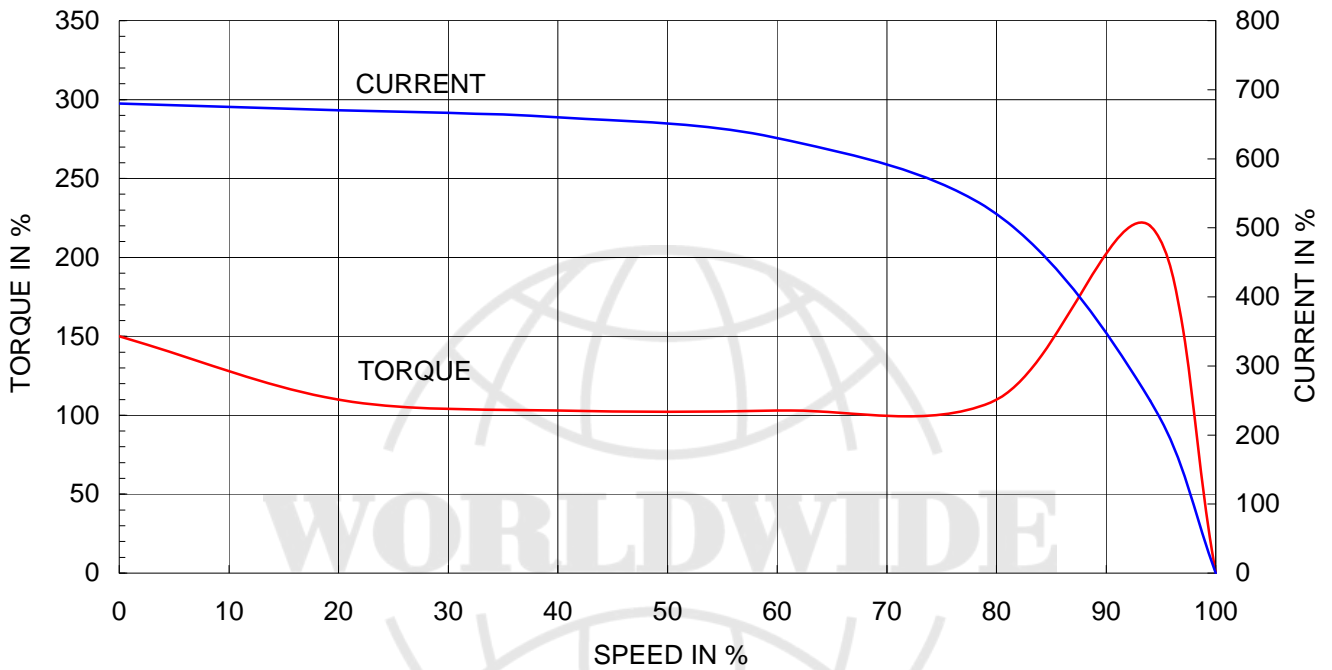


REF. NO	A1314AA	Sheet No.	of
DWG NO	350A1314AA	Revision No.	0

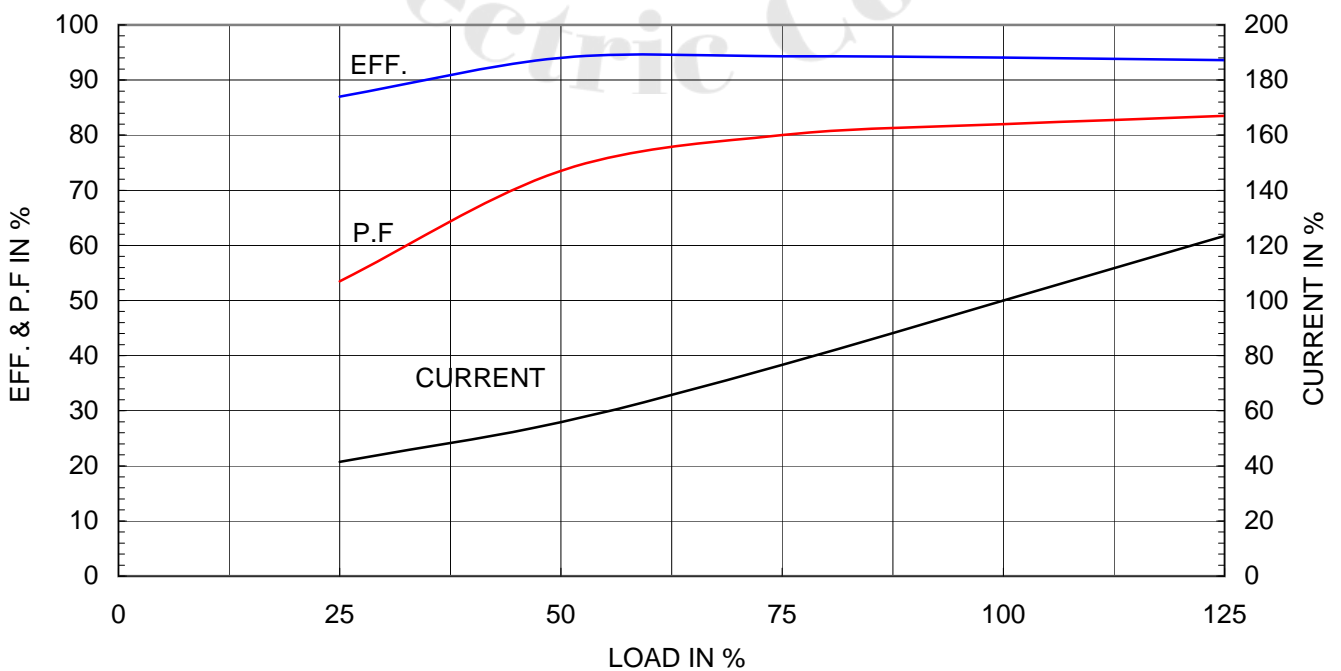
Type	: PLP
Full Load Torque	: 220.0 lb.ft
Motor moment of Inertia (J)	: 32.000 lb.ft ²
Load moment of Inertia (J)	: 1500.593 lb.ft ²

37 kW	50 HP	60 Hz
6 P	Rated Speed : 1185 RPM	
Rated Voltage	575V	460V
Full Load Current	48.1A	60.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



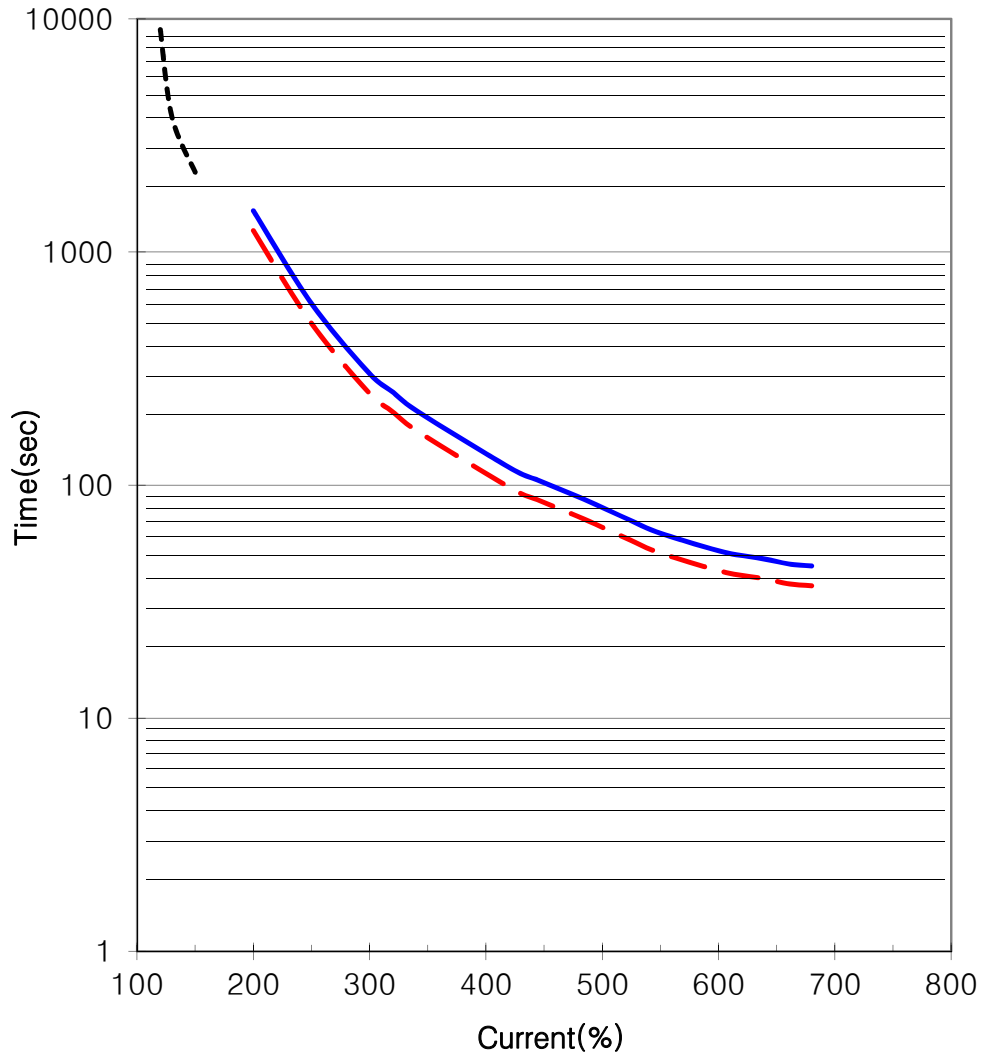


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP50-12-365TC

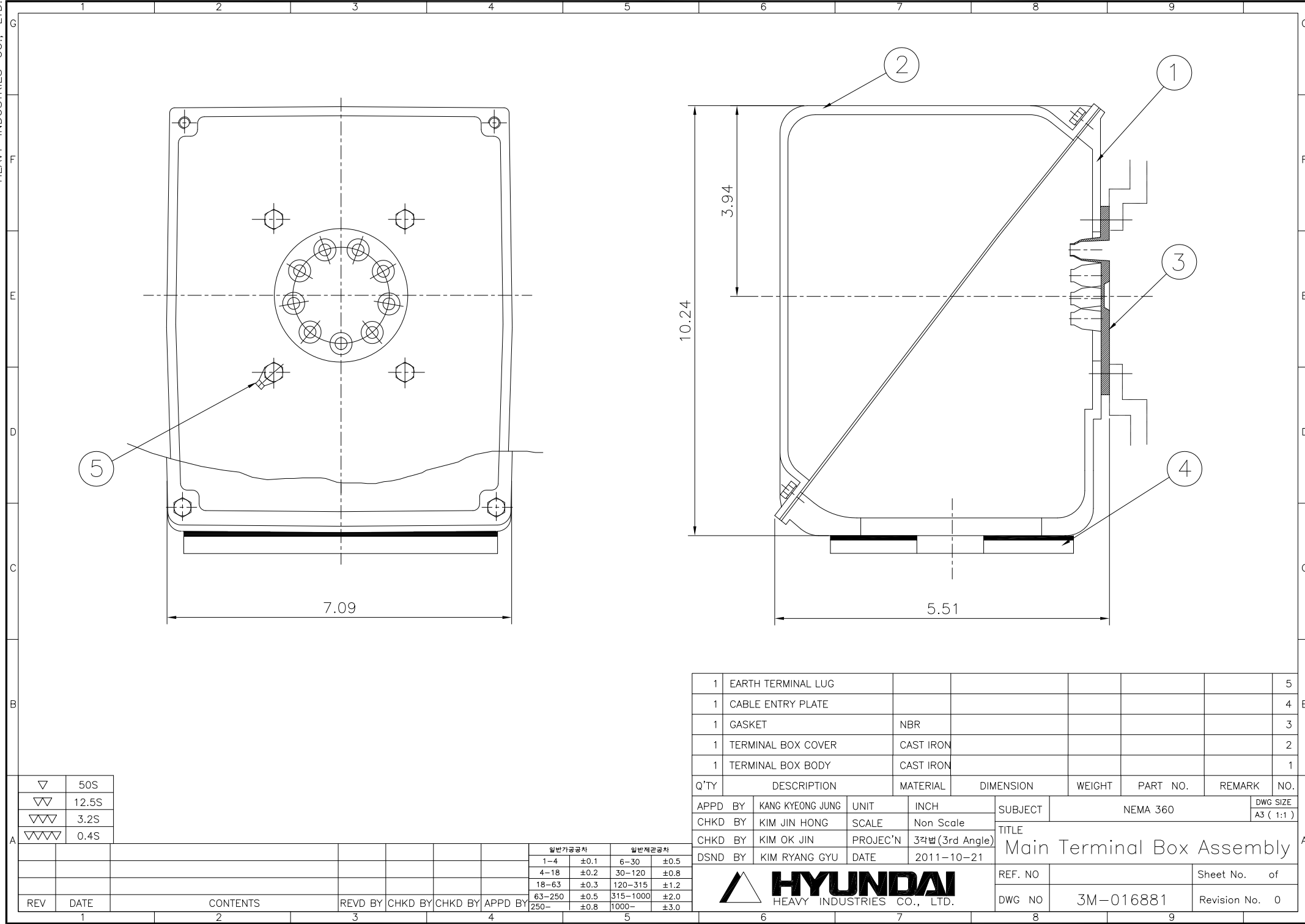
Type :	PLP50-12-365T		50	HP	6	P	60	Hz
FULL LOAD TORQUE :	220.0	lb.ft	RATED SPEED :		1185 rpm			
J OF LOAD :	-	lb.ft ²	VOLTAGE		460 V	575 V		
J OF MOTOR :	32.0	lb.ft ²	RATED CURRENT		60.2A	48.1A		



— THERMAL LIMIT CURVE AT COLD CONDITION
- - THERMAL LIMIT CURVE AT HOT CONDITION

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	37 sec. at Hot condition
- at 80% of rated voltage starting	45 sec. at Cold condition

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▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						

일반기능공차		일반재관공차	
1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	EARTH TERMINAL LUG						5
1	CABLE ENTRY PLATE						4
1	GASKET	NBR					3
1	TERMINAL BOX COVER	CAST IRON					2
1	TERMINAL BOX BODY	CAST IRON					1

APPD BY	KANG KYEONG JUNG	UNIT	INCH	SUBJECT	NEMA 360	DWG SIZE	A3 (1:1)
CHKD BY	KIM JIN HONG	SCALE	Non Scale	TITLE			
CHKD BY	KIM OK JIN	PROJEC'N	3각법 (3rd Angle)	Main Terminal Box Assembly			
DSND BY	KIM RYANG GYU	DATE	2011-10-21				

REF. NO		Sheet No.	of
DWG NO	3M-016881	Revision No.	0