

MODEL NUMBER	IEEE60-12-404T		
HORSEPOWER	60		
RPM / POLES	1200 / 6		
VOLTAGE / PHASE	460 / 3		
FRAME	404T		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP56		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1185 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS	71.2 A		
LOCKED ROTOR CURRENT (% Full Load)	670 %		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	94.5 %	84.0 %
	75 %	94.7 %	81.1 %
	50 %	94.2 %	73.2 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	267.5 lb.ft	140 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	2397.965 lb.ft ²	46.280 lb.ft ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	75 dB(A)		
MAX. SHAFT VIBRATION	0.08 In/Sec – Peak Velocity		
NUMBER OF STARTS (Hot / Cold)	2 Hot / 3 Cold		
MAX. AMBIENT TEMPERATURE	40° C		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DRIVE-END BEARING	NU316		
OPPOSITE DRIVE-END BEARING	6313C3		
BEARING SEAL TYPE	ProTech™ IP66 Labyrinth On DE and ODE		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	1120 lbs		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D, T3A		
PAINT	Epoxy		
INVERTER RATING	10:1 CT / 1000:1 VT		
INSULATION TYPE	Hyundai Inverter Shield, Meets NEMA MG1 Part 31		
SPECIFICATION - In Accordance With	IEEE-841, Version 2009, NEMA, CSA		



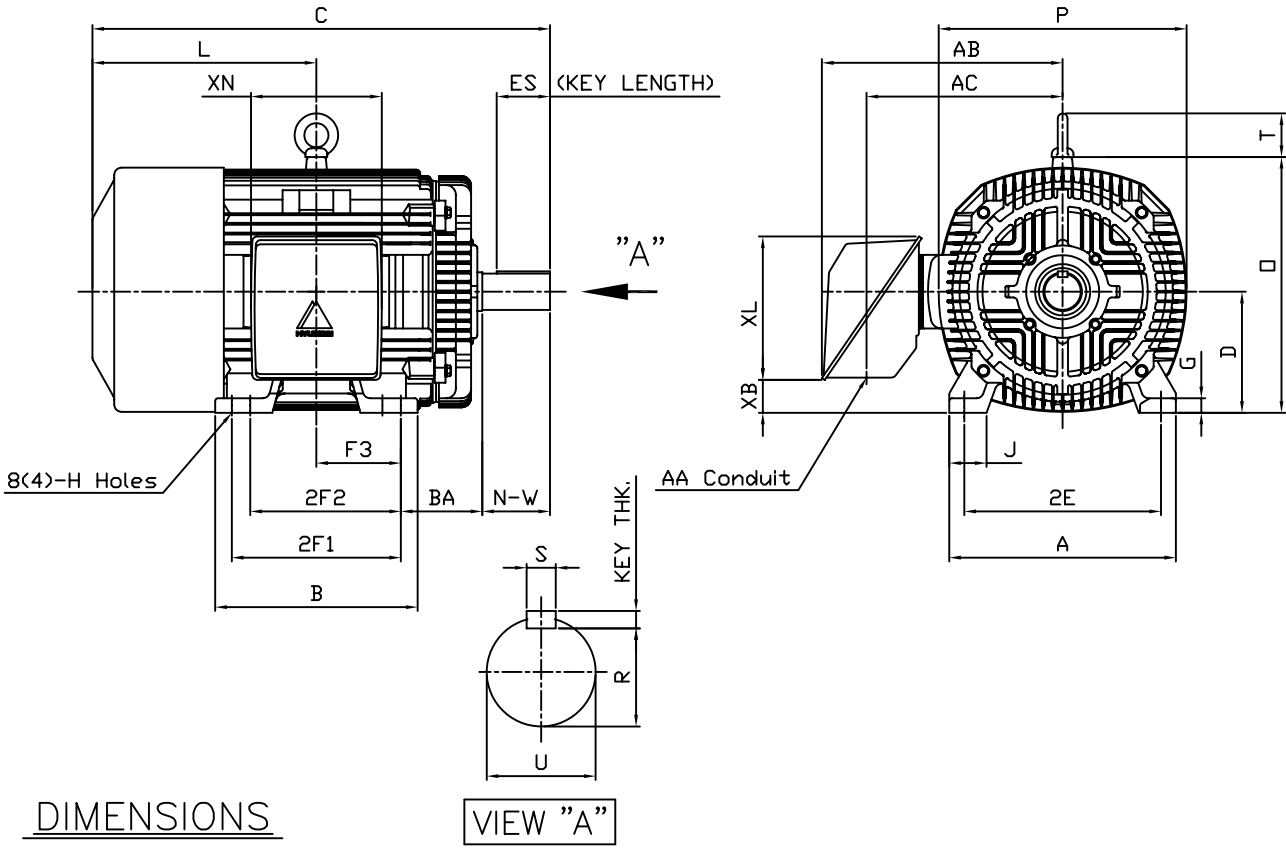
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본 도면은 현대중공업(주) 재산이며 복제할 수 없습니다 (취급유의)

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		<h1>IEEE841 TEFC</h1> <h2>THREE PHASE INDUCTION MOTOR</h2>		TYPE PLP Cast iron frame
FRAME SIZE	OUTPUT(HP)	POLES	Hz	TIME RATING
404T			60	CONT



DIMENSIONS

VIEW "A"

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	
18.43	16.46	16.00	(13.75)	12.25	6.870	1.18	3.03	0.81	3.00	20.28	14.85	2.83	11.65	10.63	1120

O V E R A L L							S H A F T			KEY	BEARING			
BA	C	D	L	O	P	T	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
									R	ES	S			
6.62	41.01	10.00	20.57	20.79	20.16	3.55	2.875	7.25	2.450	5.65	0.750	0.750	6316C3	6313C3

NOTE

1. Dimension "D" tolerance : +0.00inch - 0.03inch (143T-365T) ; +0.000inch - 0.06inch (404T-449T)
2. Dimension "U" tolerance : +0.000inch - 0.005inch (143T-215T), +0.000inch - 0.001inch (254T-449T)
3. Dimension "R" tolerance : +0.000inch - 0.015inch

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	K.J.KANG	UNIT	INCH	SUBJECT	404T	CAD PROJ ㄹ \ FILE ㄹ	
Q.P CHK	O.J.KIM	SCALE	N/S				
CHKD BY	N.D.LEE	PROJEC'N	3 각법(3rd Angle)	TITLE			
DSND BY	A.L.SHIN	DATE	2011.03.31				

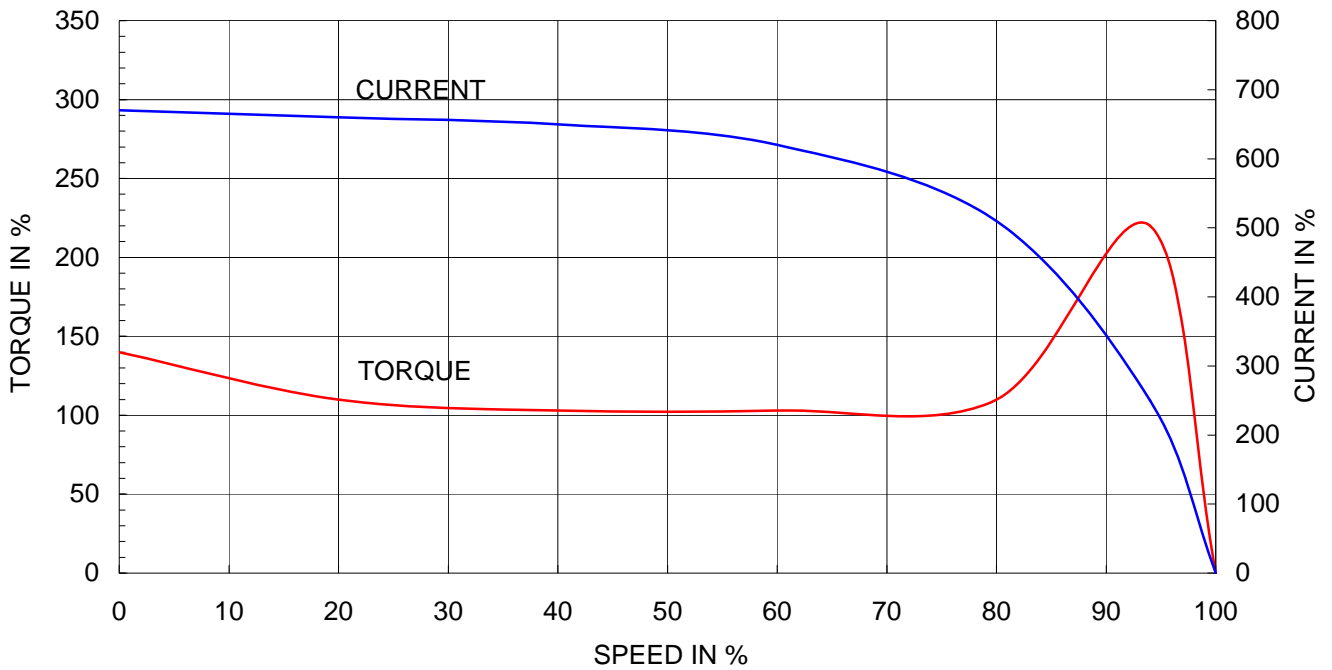


REF. NO	A8115AA	Sheet No. of
DWG NO	350A8115AA	Revision No. 0

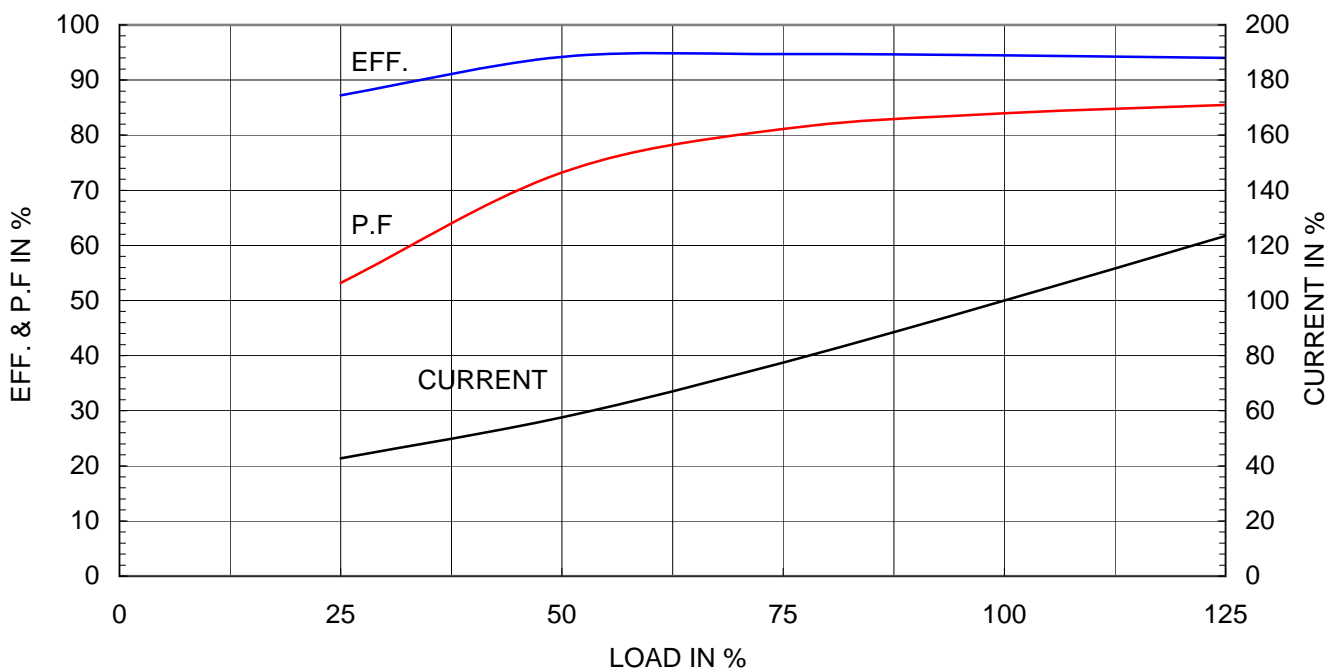
Type	: PLP
Full Load Torque	: 267.5 lb.ft
Motor moment of Inertia (J)	: 46.280 lb.ft ²
Load moment of Inertia (J)	: 2397.965 lb.ft ²

45 kW	60 HP	60 Hz	
6 P	Rated Speed	: 1185 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	56.9A	71.2A	142.3A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



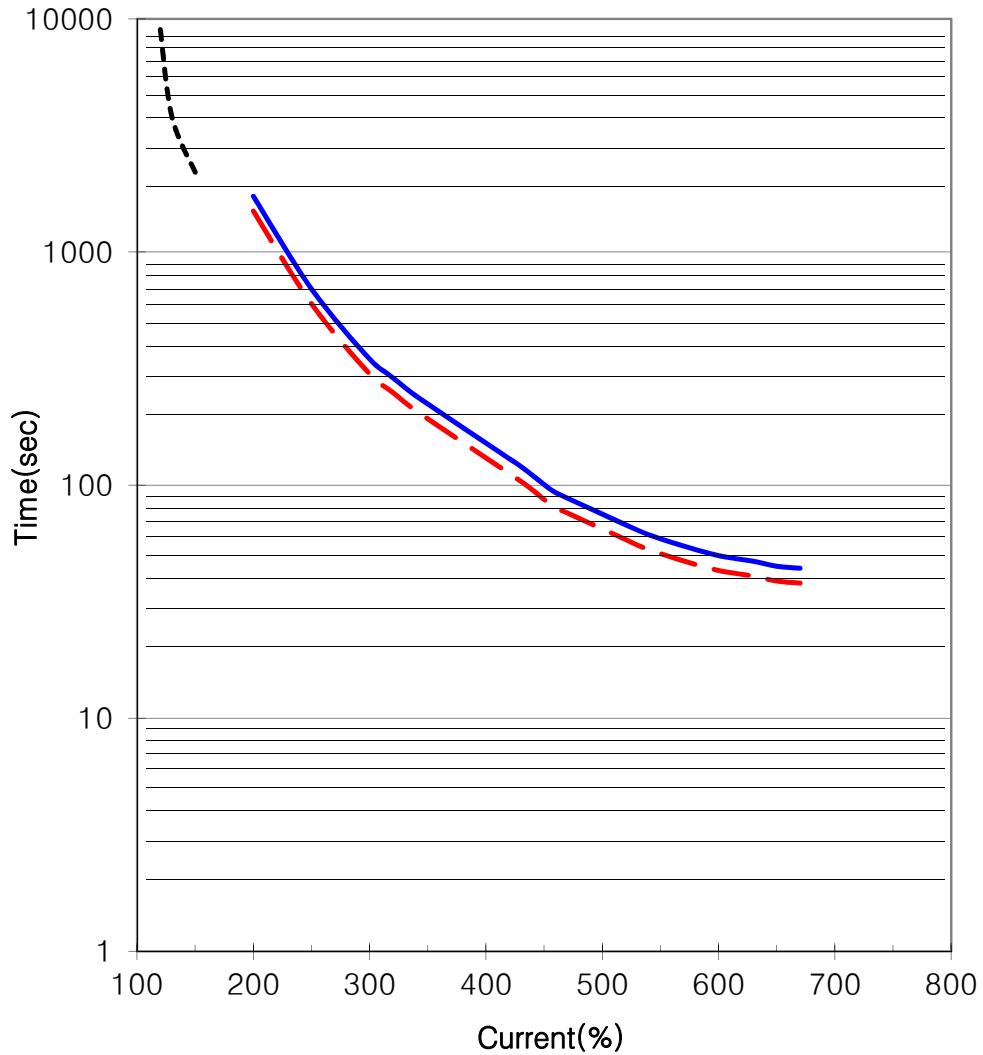


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP60-12-404T

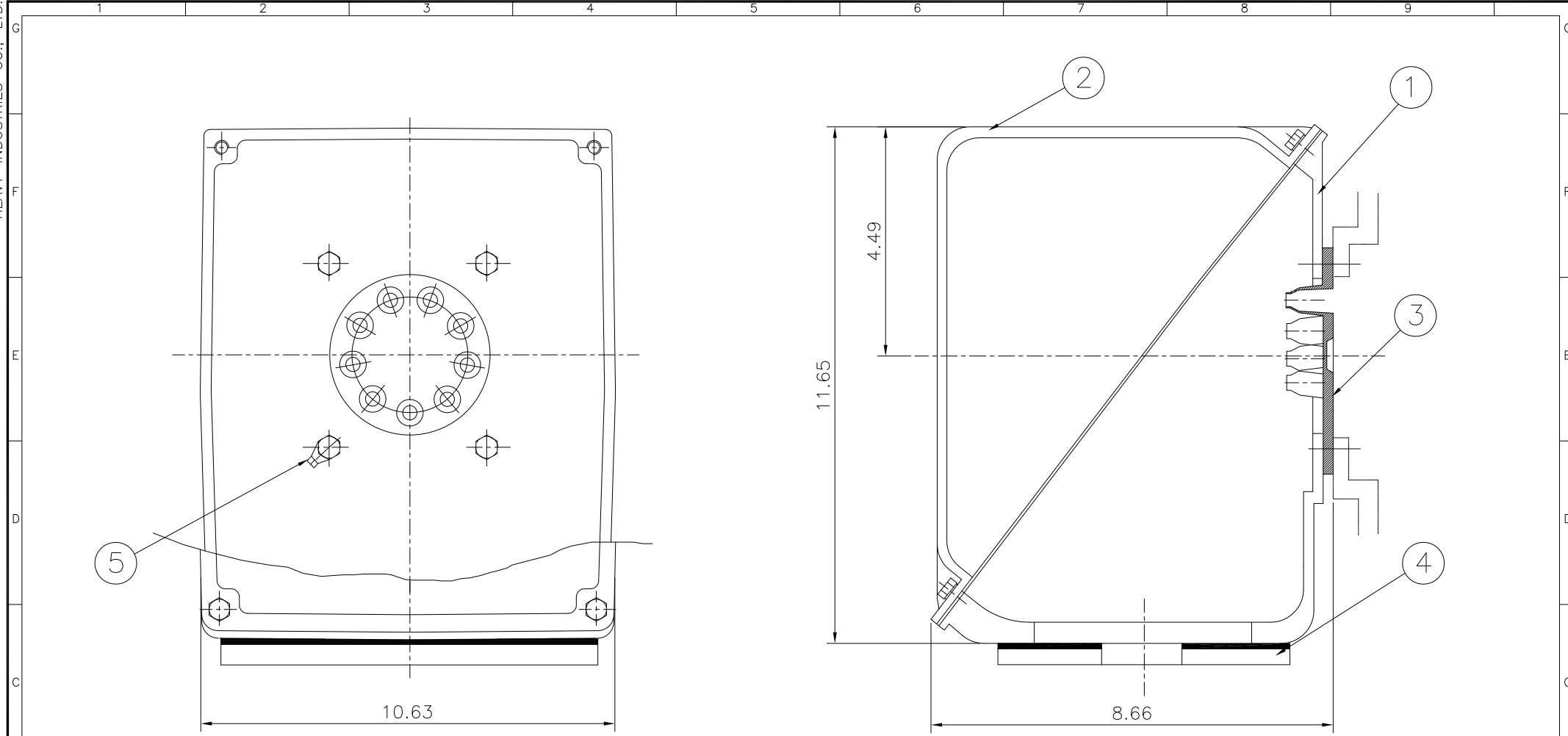
Type :	PLP60-12-404T		60	HP	6	P	60	Hz
FULL LOAD TORQUE :	267.5	lb.ft	RATED SPEED :		1185 rpm			
J OF LOAD :	-	lb.ft ²	VOLTAGE		460 V	575 V		
J OF MOTOR :	46.3	lb.ft ²	RATED CURRENT		71.2A	56.9A		



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

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	38 sec. at Hot condition
- at 80% of rated voltage starting	44 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	일반기능공차		일반제관공차	
							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

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	
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.				
APPD BY	KANG KYEONG JUNG	UNIT	INCH	SUBJECT	NEMA 400, 440		DWG SIZE				
CHKD BY	KIM JIN HONG	SCALE	Non Scale	TITLE	Main Terminal Box Assembly						
CHKD BY	KIM OK JIN	PROJEC'N	3각법 (3rd Angle)	DSND BY	KIM RYANG GYU	DATE	2011-10-21	REF. NO		Sheet No.	of
								DWG NO	3M-016882	Revision No.	0