

MODEL NUMBER	IEEE150-12-447T		
HORSEPOWER	150		
RPM / POLES	1200 / 6		
VOLTAGE / PHASE	460 / 3		
FRAME	447T		
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; 460	169.5 A		
LOCKED ROTOR CURRENT (% Full Load)	680 %		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	95.8 %	85.0 %
	75 %	96.0 %	81.4 %
	50 %	95.7 %	72.6 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	654.0 lb.ft	140 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	4864.156 lb.ft <sup>2</sup>	106.310 lb.ft <sup>2</sup>	
SOUND PRESSURE LEVEL ( No Load 1 M From Motor)	80 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	NU318		
OPPOSITE DRIVE-END BEARING	6316C3		
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	1860 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		




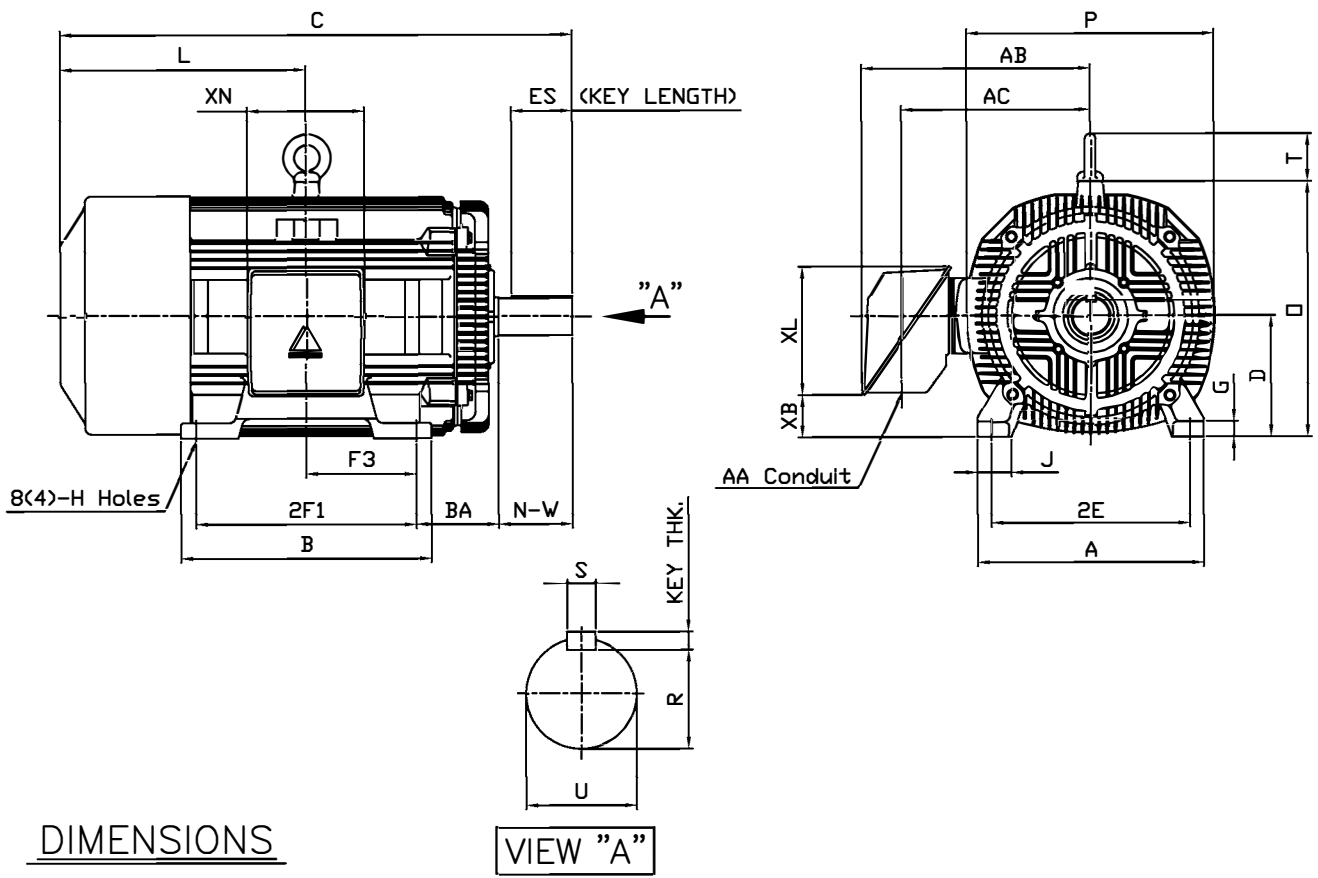
CC 038A



본 도면은 현대중공업(주) 재산이므로  
허가없이 복사할 수 없음 (취급주의)

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 <b>HYUNDAI</b> HEAVY INDUSTRIES CO., LTD.		<b>IEEE841 TEFC</b> THREE PHASE INDUCTION MOTOR		<b>TYPE</b>	PLP Cast iron frame
FRAME SIZE	OUTPUT(HP)	POLES	Hz	TIME RATING	
447T			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
20.51	22.72	18.00	20.00	-	10.00	1.42	3.07	0.81	3.00	23.78	20.70	3.14	16.30	13.78	1860

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			
7.50	50.29	11.00	24.30	23.19	22.40	4.33	3.375	8.50	2.880	6.93	0.875	0.875	NU318	6316C3

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	447T	CAD PROJ <input type="checkbox"/> \ FILE <input type="checkbox"/>	
Q.P CHK	O.J.KIM	SCALE	N/S				
CHKD BY	N.D.LEE	PROJEC'N	3 각법(3rd Angle)	TITLE <b>OUTLINE</b>			
DSND BY	A.L.SHIN	DATE	2011.03.31				
 <b>HYUNDAI</b> HEAVY INDUSTRIES CO., LTD.				REF. NO	A8119AA	Sheet No. of	
				DWG NO	350A8119AA	Revision No. 0	



# PERFORMANCE CURVE

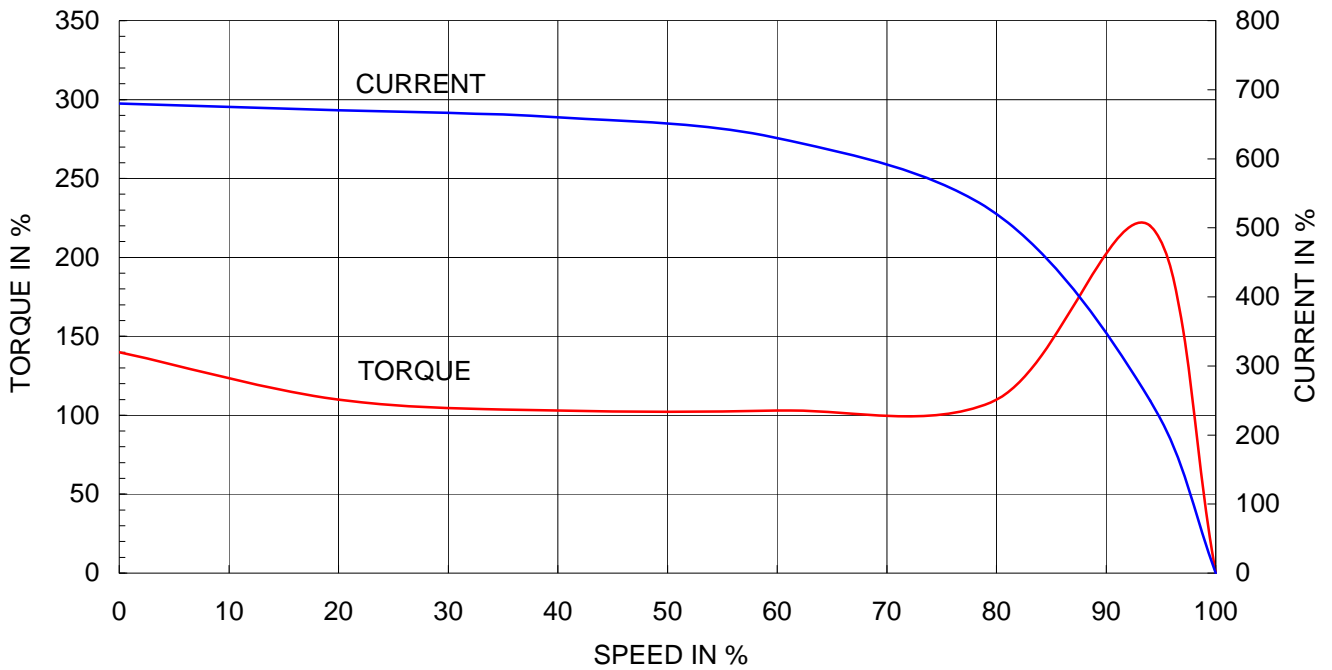
CURVE NO.

**P-PLP447SR06**

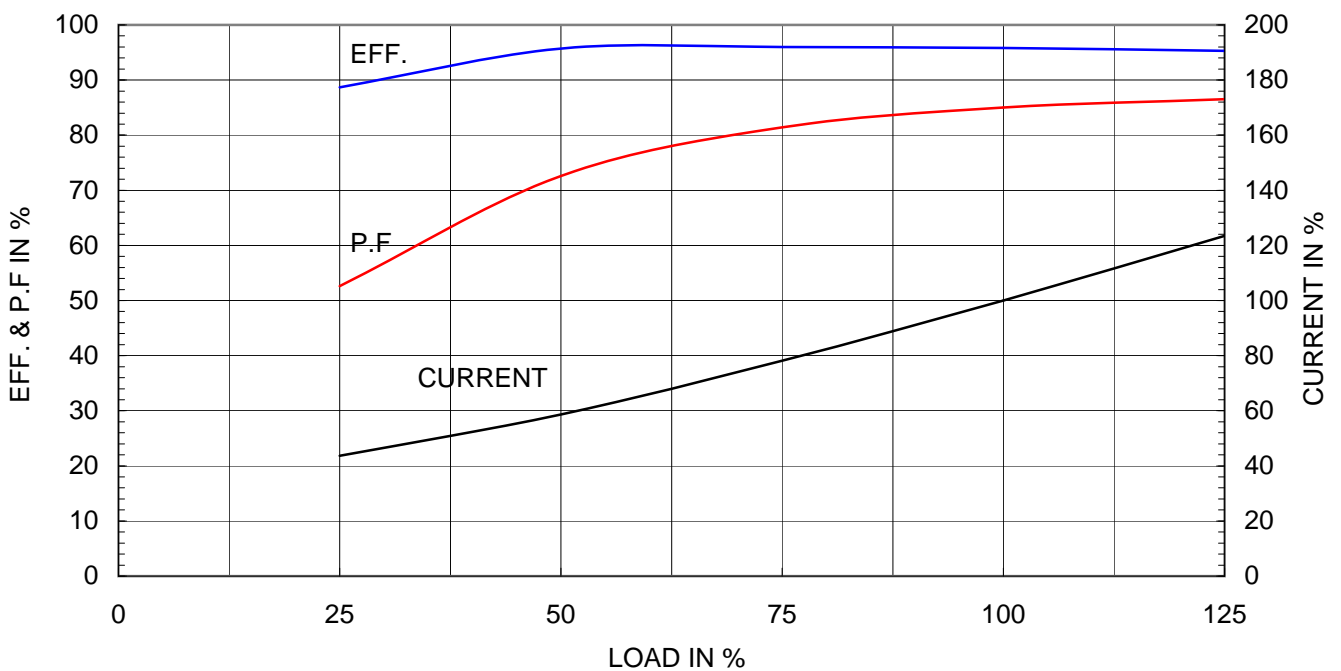
Type	:	PLP
Full Load Torque	:	654.0 lb.ft
Motor moment of Inertia (J)	:	106.310 lb.ft <sup>2</sup>
Load moment of Inertia (J)	:	4864.156 lb.ft <sup>2</sup>

110 kW	150 HP	60 Hz	
6 P	Rated Speed	: 1185 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	135.6A	169.5A	339.1A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



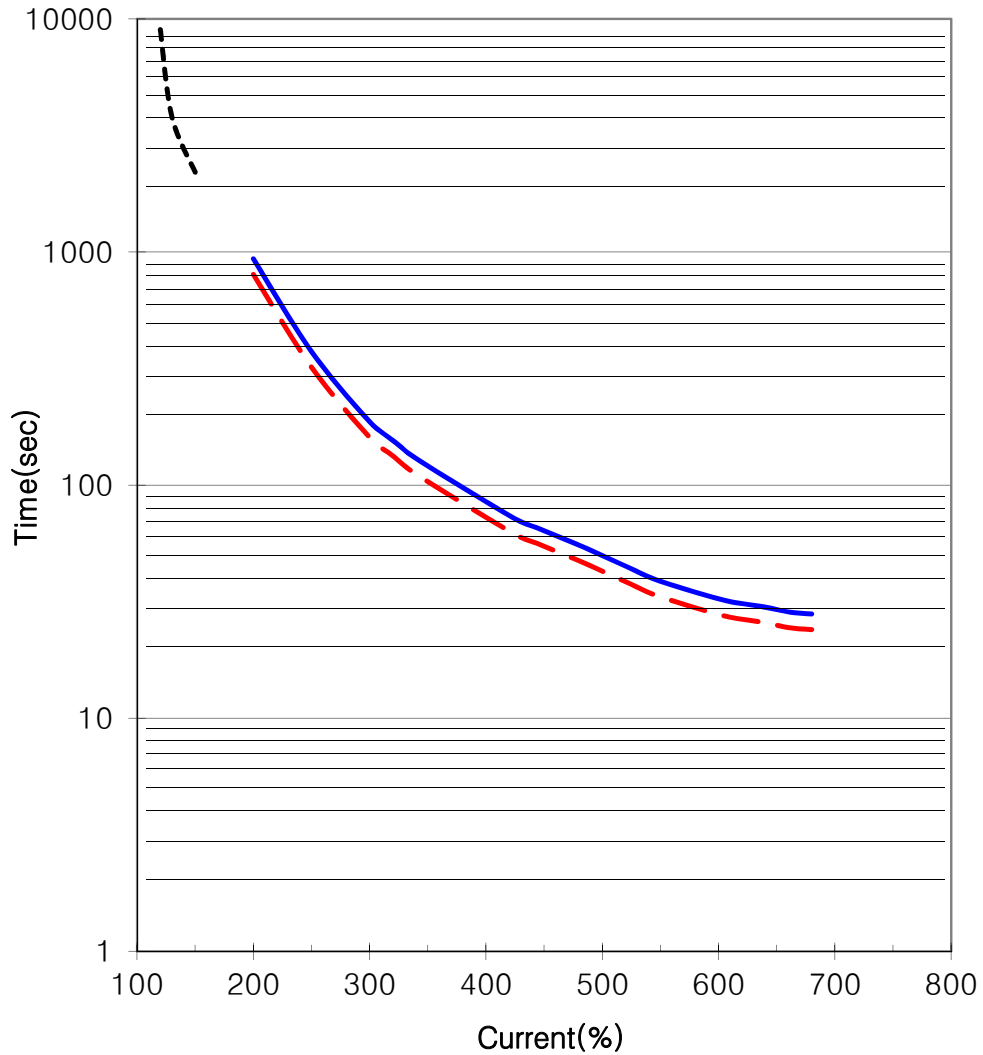


### THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP150-12-447T

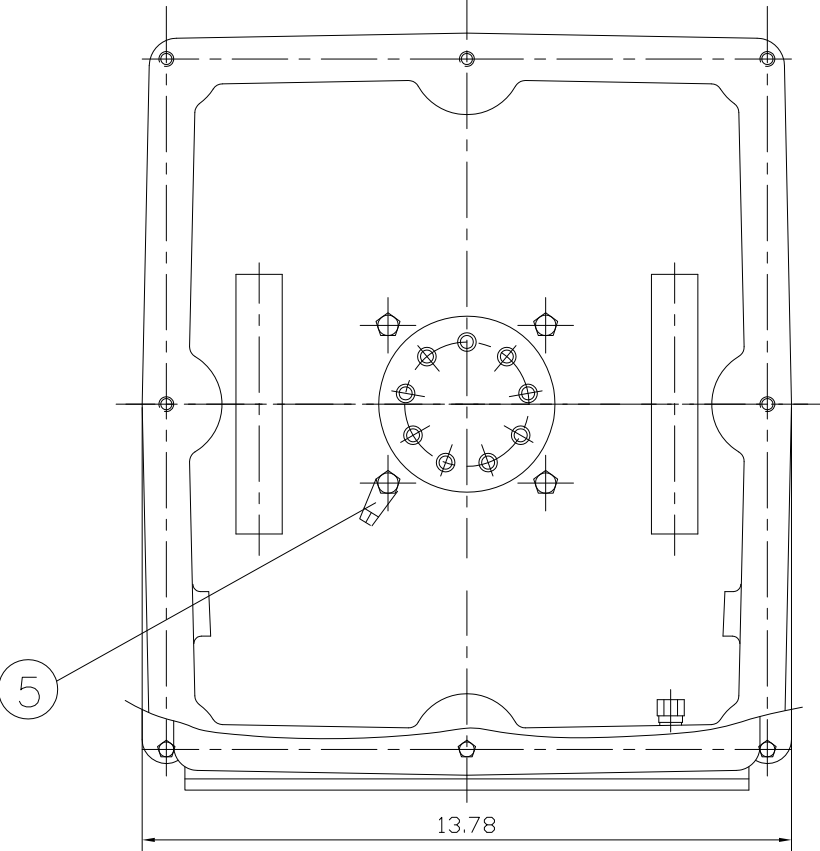
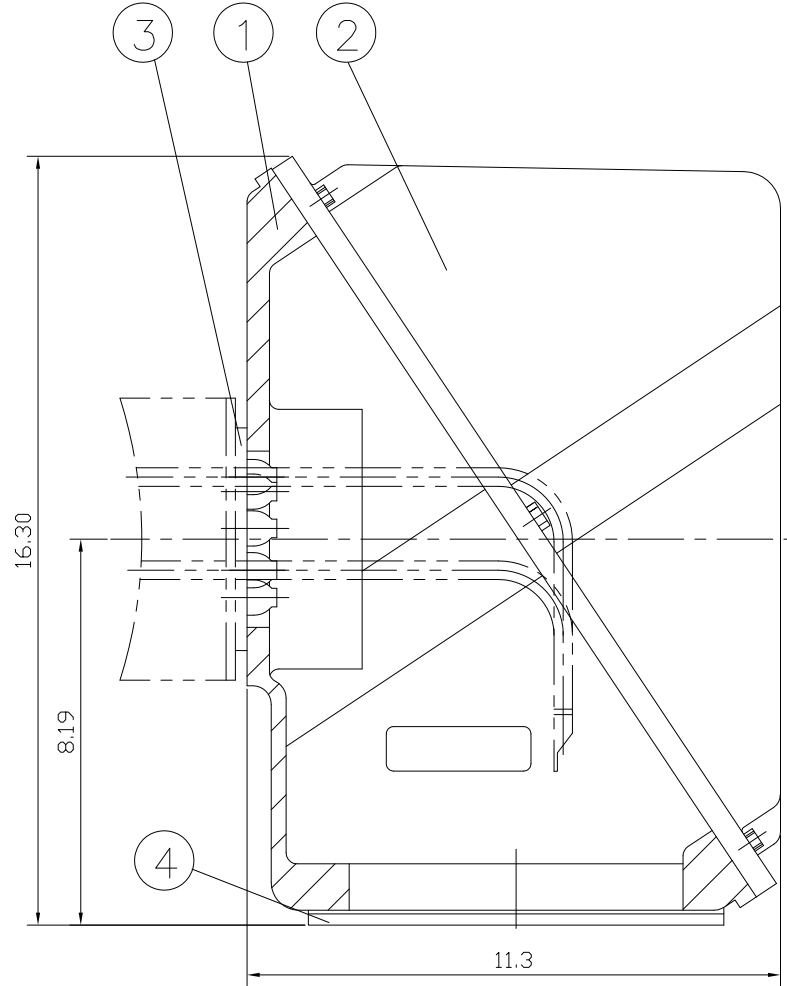
Type :	PLP150-12-447T		150	HP	6	P	60	Hz
FULL LOAD TORQUE :	654.0	lb.ft	RATED SPEED :		1185 rpm			
J OF LOAD :	-	lb.ft <sup>2</sup>	VOLTAGE		460 V	575 V		
J OF MOTOR :	106.3	lb.ft <sup>2</sup>	RATED CURRENT		169.5A	135.6A		



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

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	24 sec. at Hot condition
- at 80% of rated voltage starting	28 sec. at Cold condition

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REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1		2	3			4

일반가공공차		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

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 KYOUNG JUNG	UNIT	INCH	SUBJECT	NEMA 440	CAD PROJ \ FILE
CHKD BY	KIM OK JIN	SCALE	1/3	S/T-BOX-M/3r038513		
DSND BY		PROJEC'N	3rd Angle	TITLE		
TRCD BY	KIM JONG SEON	DATE	99.04.28	Main Terminal Box Assembly		



REF. NO		Sheet No.	of
DWG NO	3M-038513	Revision No.	0