

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No. [0]	
Project Name		Project No.		Quantity sets	
GENERAL SPECIFICATION			PERFORMANCE DATA		
Frame Size	280LL		Rated Output	160 kW 214 HP	
Type	HS-160/6		Number of Poles	6	
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage	
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ	
Rated Frequency	60 Hz		Rated Voltage	440 V 380 V 220 V	
Number of Phases	3		Current	Full Load 254.0 A 294.1 A 508.0 A	
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	650 % 650 % 650 %	
Temp. Rise at full load (by resistance method)			Efficiency		
at 1.0 S.F 80 deg. C			50% Load 95.0 %		
Motor Location ☐ Indoor ☒ Outdoor			75% Load 95.1 %		
Altitude Less than 1000 meter			100% Load 95.0 %		
Relative Humidity Less than 80 %			Power Factor(p.u)		
Ambient Temp. 40 deg. C (Max.)			50% Load 0.842		
Duty Type Continuous (S1)			75% Load 0.860		
Service Factor 1.15			100% Load 0.870		
Mounting ☐ B3 ☐ B5 ☒ V1 ☐ B3/B5			Speed at Full Load 1185 r.p.m		
Bearing	Type	Anti-Friction		Torque	
	DE/N-DE	6318C3 / 6316C3		Full Load 131.5 kg·m	
Lubricant		Grease(Gadus S2 V 100 2)		Locked-rotor** 170 %	
External Thrust Not applicable			Breakdown** 230 %		
Coupling Method ☒ Direct ☐ V-Belt			Moment of Inertia (J)		
Shaft Extension ☒ Single ☐ Double			Load(Max.) 224.250 kg·m²		
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor 7.288 kg·m²	
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)	
Location Refer to Outline Drawing			80 dB(A)		
Application			Vibration 2.2 mm/sec (r.m.s)		
Area classification Non-Hazardous			Permissible number of		
Type of Ex-Protection Not applicable			consecutive starts Cold 3 times		
Applicable Standard KS,IEC,NEMA MG1 Part30(Vpeak)			Hot 2 times		
			Paint	Munsell No. 4.0PB5.4/5.5(VL-451)	
ACCESSORIES			SUBMITTAL DRAWING		
			Outline Dimension Drawing \ Motor Weight(Approx.)		
			B3		kg
			B5		kg
			V1		TJ8XPP51 1170 kg
			B3/B5		kg
			Main T-Box Ass'y 3M-016882		
SPARE PARTS			REMARK		
			High Efficiency		
			*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise		
			Date	DSND	CHKD
			2010-05-28	R.G. KIM	O.J. KIM
					CHKD
					APPD
					J.H. KIM
					K.J. KANG

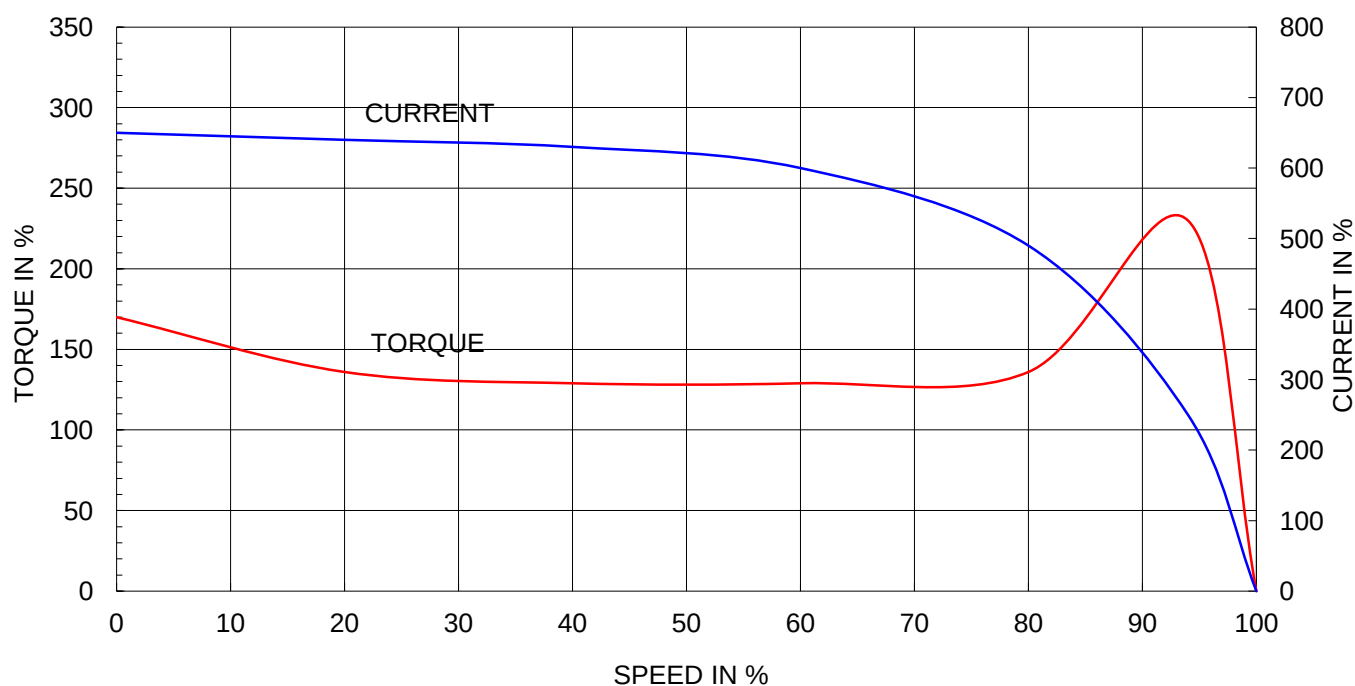
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed Motor, performance data is based on sine wave tests.
 ** Data is based on when the motor is supplied at rated voltage & frequency. and the data is expressed as a percentage of full-load value.

HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

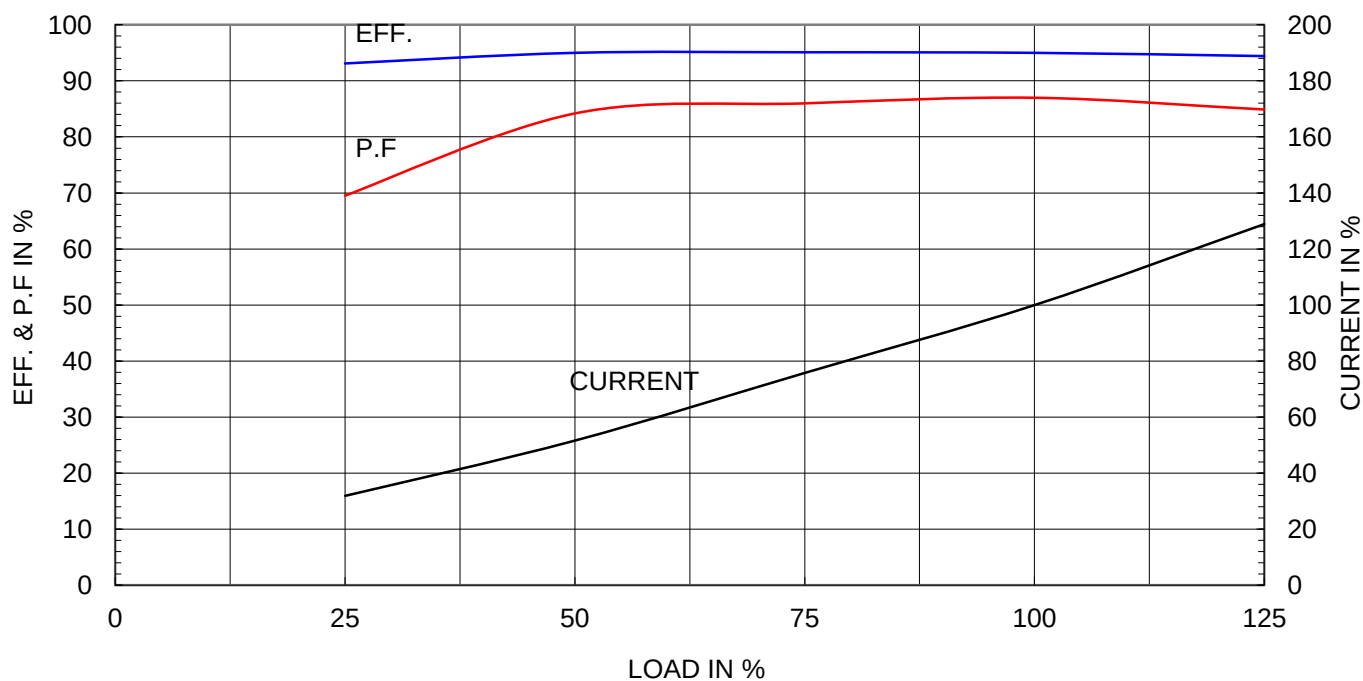
Type	:	HS
Full Load Torque	:	131.5 Kg.m
Motor moment of Inertia (J)	:	7.288 Kg.m ²
Load moment of Inertia (J)	:	224.250 Kg.m ²

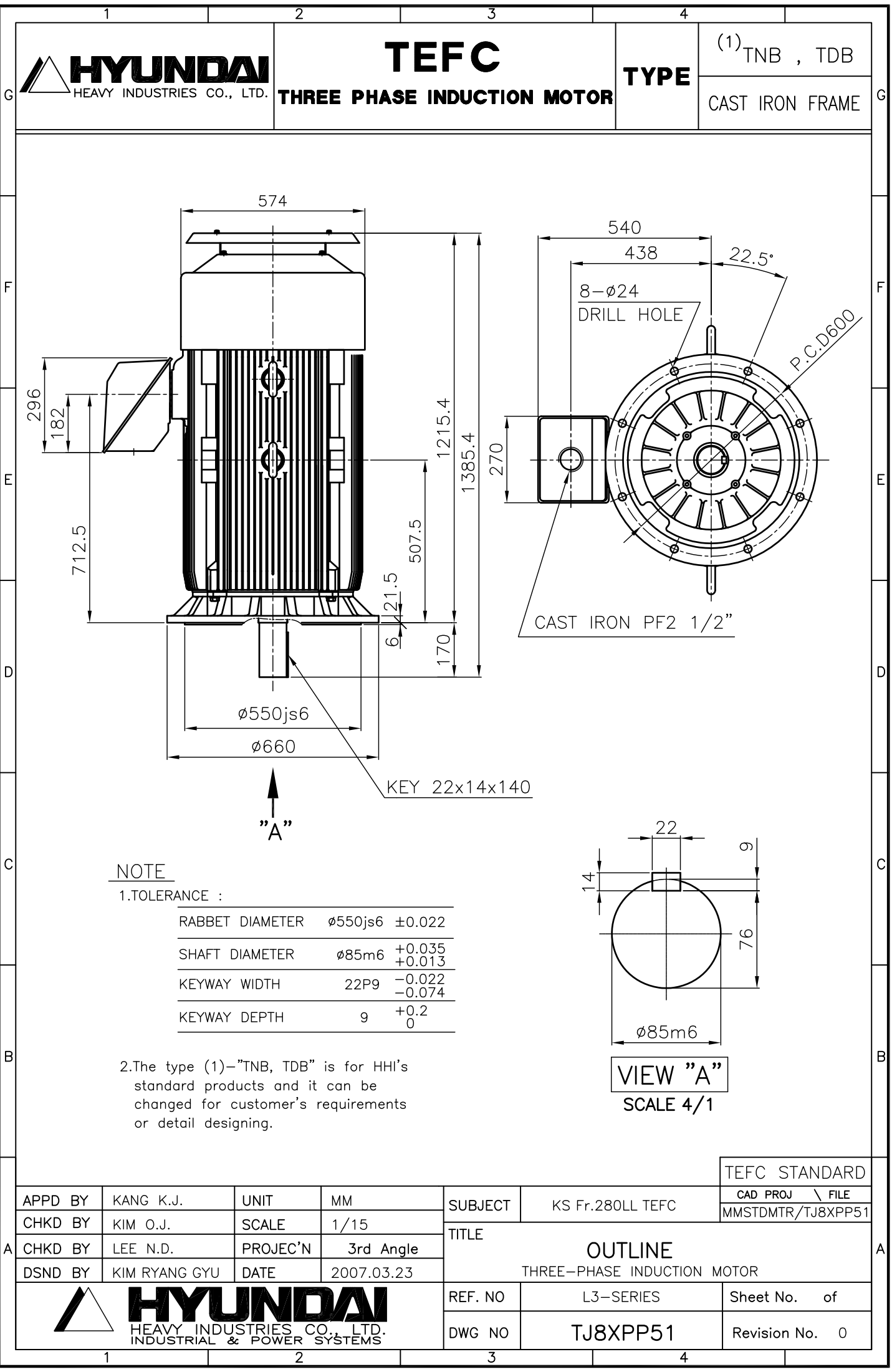
160 kW		6 P		60 Hz	
Speed at Full Load :				1185 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	254.0A	294.1A	508.0A		

SPEED VS TORQUE & CURRENT CURVE

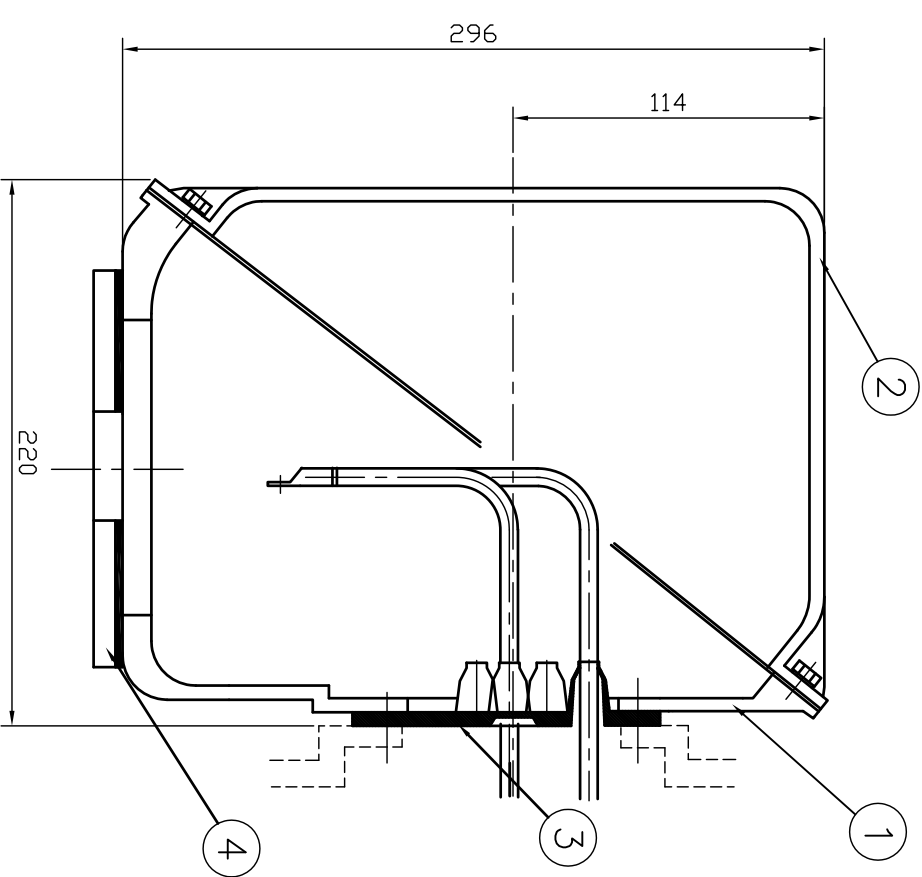
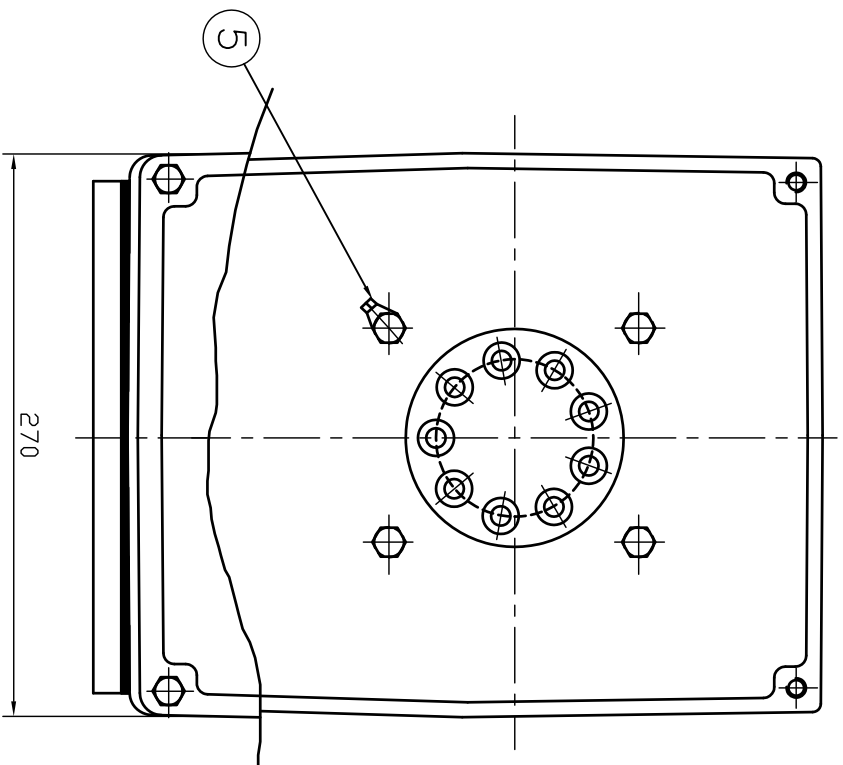


OUTPUT VS EFF., P.F & CURRENT CURVE





				TEFC STANDARD	
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.280LL TEFC
CHKD BY	KIM O.J.	SCALE	1/15	OUTLINE THREE-PHASE INDUCTION MOTOR	
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle		
DSND BY	KIM RYANG GYU	DATE	2007.03.23		
HYUNDAI HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS				REF. NO	L3-SERIES
				DWG NO	TJ8XPP51
				Sheet No.	of
				Revision No.	0



REV	DATE	CONTENTS	REV'D BY	CHK'D BY	Q.P. CHK	APP'D BY
1						

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
APP'D BY	김진오	UNIT	MM			
Q.P. CHK	주영걸	SCALE	NONE			
CHK'D BY	권오철	PROJEC'T	3번(3rd Angle)			
DSND BY	김헌태	DATE	92.06.05			
				SUBJECT	HLA6 - 250,280Fr.	CAD PROJ. & FILE
				TITLE	(CAST IRON)	T-BOX-M \ 38016882
				REF. NO	3M-016882	Sheet No. of
				DWG NO	3M-016882	Revision No.

