

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	225S		Rated Output	55 kW 75 HP			
Type	HLP-55/4		Number of Poles	4			
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	380 V			
Number of Phases	3		Current	Full Load	103.1 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	760 %			
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 93.6 %				
Motor Location ☒ Indoor ☐ Outdoor			75% Load 95.5 %				
Altitude Less than 1000 meter			100% Load 95.4 %				
Relative Humidity Less than 80 %			Power Factor(p.u)				
Ambient Temp. 40 deg. C (Max.)			50% Load 0.741				
Duty Type Continuous (S1)			75% Load 0.819				
Service Factor 1.15			100% Load 0.850				
Mounting ☒ B3 ☐ B5 ☐ V1 ☐ B3/B5			Speed at Full Load 1780 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6314C3 / 6213C3		Full Load 30.1 kg·m			
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor** 150 %			
External Thrust Not applicable			Breakdown** 230 %				
Coupling Method ☒ Direct ☐ V-Belt			Moment of Inertia (J)				
Shaft Extension ☒ Single ☐ Double			Load(Max.) 27.600 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor 0.950 kg·m²			
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing		82 dB(A)			
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification Non-Hazardous			Permissible number of consecutive starts				
Type of Ex-Protection Not applicable			Cold 3 times				
Applicable Standard KS,IEC, NEMA MG1 Part30(Vpeak)			Hot 2 times				
			Paint	Munsell No.	Panton279C		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	LM-T1221B3PL001	350 kg		
			B5	LM-T1225B5PL001	390 kg		
			V1	LM-T1225V1PL001	390 kg		
			B3/B5	LM-T1221B4PL001	370 kg		
			Main T-Box Ass'y			3M-016881	
SPARE PARTS			REMARK				
			Premium Efficiency				
			*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
			Date	DSND	CHKD	CHKD	APPD
			2015-09-05	R.G. KIM	-	O.J. KIM	S.H. GO

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.

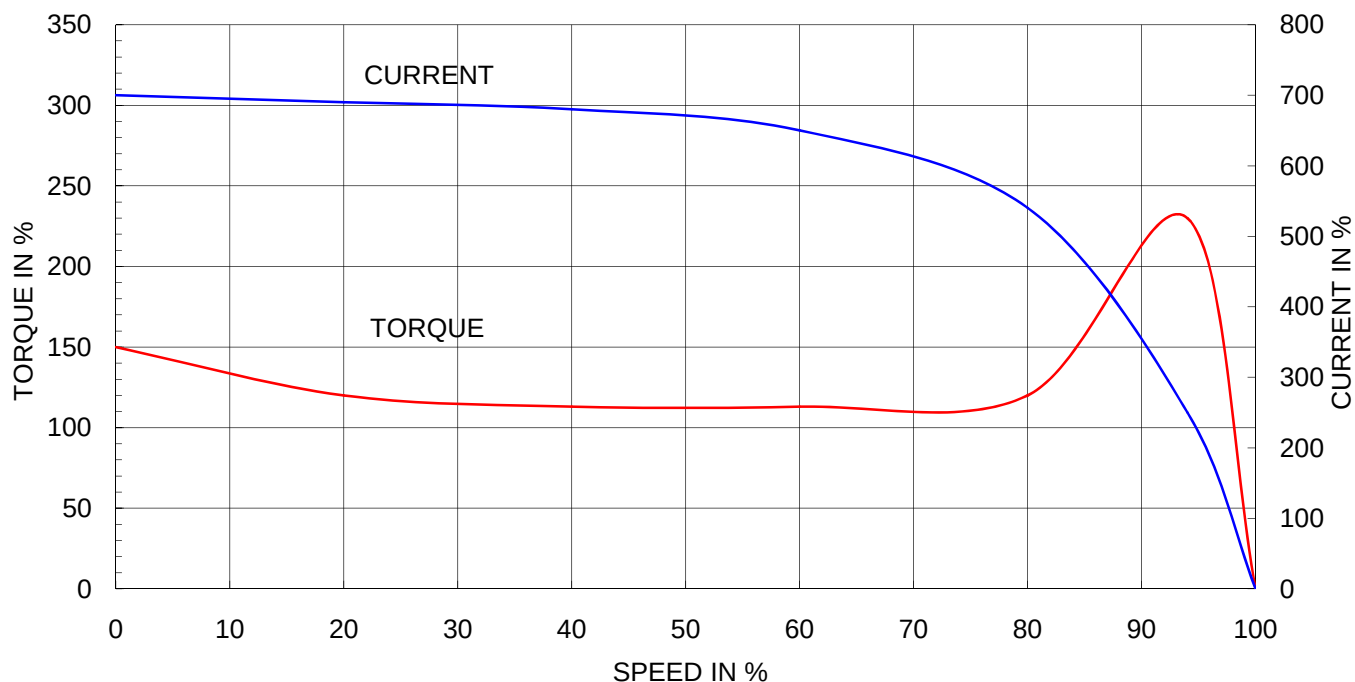
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

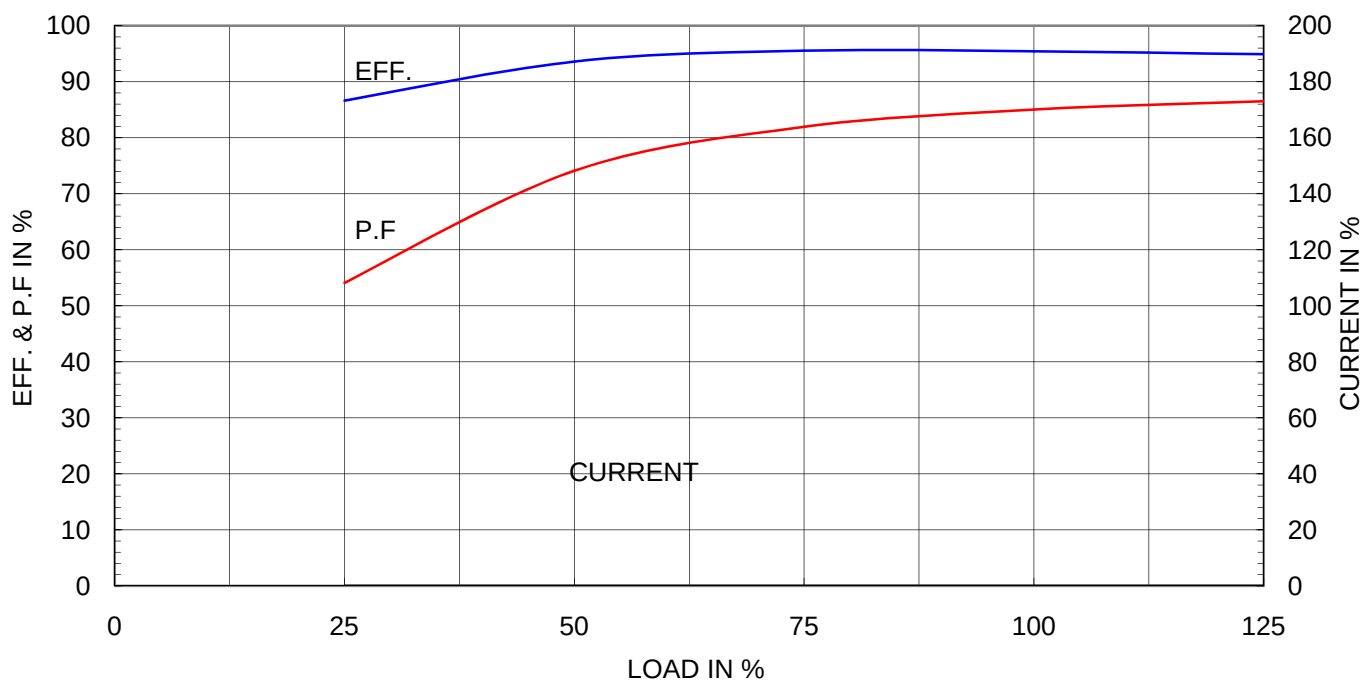
Type	:	HLP-55/4
Full Load Torque	:	30.1 Kg.m
Motor moment of Inertia (J)	:	0.950 Kg.m ²
Load moment of Inertia (J)	:	27.600 Kg.m ²

55 kW	4 P	60 Hz
Speed at Full Load	:	1780 RPM
Rated Voltage		380V
Full Load Current		103.1A

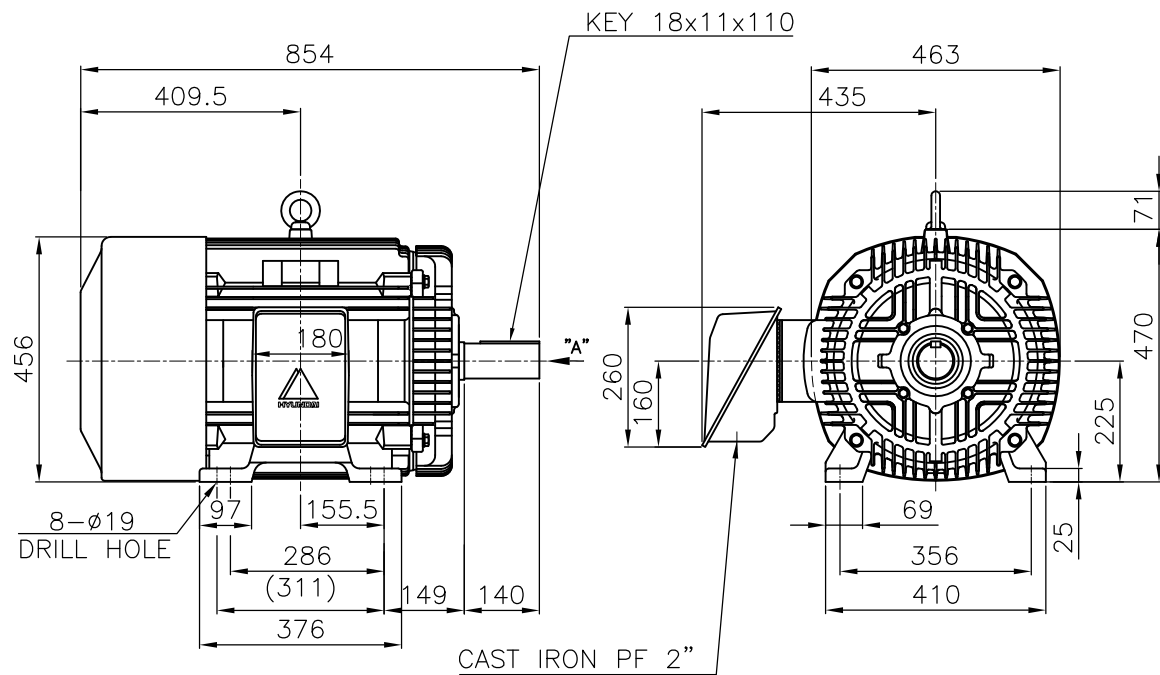
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



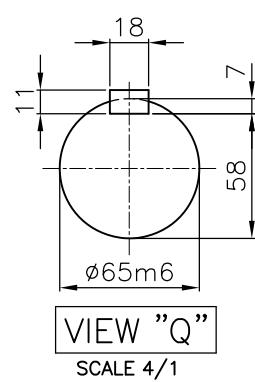
1	2	3	4
 HYUNDAI HEAVY INDUSTRIES CO., LTD.		TEFC THREE PHASE INDUCTION MOTOR	TYPE (1) TNB , TDB CAST IRON FRAME



NOTE

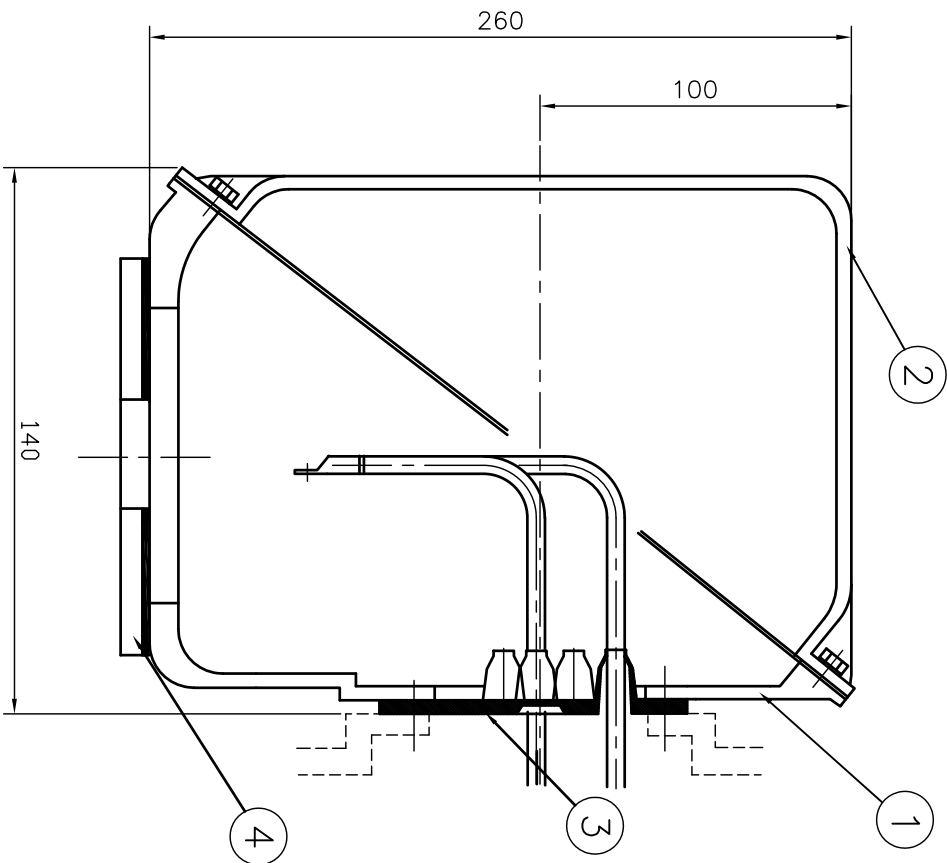
1.TOLERANCE :

CENTER HEIGHT	225 ⁰ _{-0.5}
BASE HOLE	ø19 ^{+0.43} ₀
SHAFT DIAMETER	ø65 ^{+0.030} _{+0.011}
KEYWAY WIDTH	18 ^{-0.018} _{-0.061}
KEYWAY DEPTH	7 ^{+0.2} ₀
KEY WIDTH	18 ⁰ _{-0.043}
KEY HEIGHT	11 ⁰ _{-0.110}



2.The type (1)—"TNB , TDB" is for HHI's
standard products and it can be
changed for customer's requirements
or detail designing.

				TEFC STANDARD	
APPD BY	KANG K.J.	UNIT	MM	SUBJECT	KS Fr.225S-4P TEFC
CHKD BY	KIM O.J.	SCALE	1/15	CAD PROJ \ FILE	
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle	MMSTDMTR/TJ2SAP51	
DSND BY	KIM RYANG GYU	DATE	2007.03.23	TITLE	
				OUTLINE	
				THREE-PHASE INDUCTION MOTOR	
				REF. NO	L2-Series
				DWG NO	LM-T1221B3PL001
				Sheet No.	of
				Revision No.	0



REV	DATE	CONTENTS	REVD BY	CHKD BY	Q.P. CHK	APPD BY
1						
2						
3						
4						

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
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.	
APPD BY	김진오	UNIT	MM	SUBJECT	HILA6 - 200, 225Fr.	CHD PROJ 8 \ FILE 8		
Q.P CHK	주영걸	SCALE	NONE	TITLE	(CAST IRON)	T-BOX-M \ 35016881		
CHKD BY	권오철	PROJECT	3 차 (3rd Angle)	TERMINAL BOX ASS'Y				
DSND BY	김한태	DATE	92.06.05	REF. NO		Sheet No. of		
 HYUNDAI ELECTRICAL ENGINEERING CO., LTD.				DWG NO	3M-016881	Revision No.	0	
6	7	8	9					