

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	280M		Rated Output	132 kW 175 HP			
Type	HLP-132/4		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	440 V 380 V 220 V			
Number of Phases	3		Current	Full Load 205.5 A 237.9 A 410.9 A			
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	770 % 770 % 770 %			
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 95.9 %				
Altitude	Less than 1000 meter		100% Load 95.8 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)		50% Load 0.806				
Duty Type	Continuous (S1)		75% Load 0.862				
Service Factor	1.15		100% Load 0.880				
Mounting	☒ B3 ☐ B5 ☐ V1 ☐ B3/B5		Speed at Full Load 1785 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6318C3 / 6316C3	Full Load 72.0 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.) 111.830 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron	Motor 3.415 kg·m²				
	Aux.	☐ Yes ☒ No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	85 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.	4.4PB5.5/5.6(VL-451)		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3 LM-T1283B3PL001 740 kg				
			B5 LM-T1280B5PL001 810 kg				
			V1 LM-T1280V1PL001 810 kg				
			B3/B5 LM-T1283B4PL001 775 kg				
			Main T-Box Ass'y 3M-016882				
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

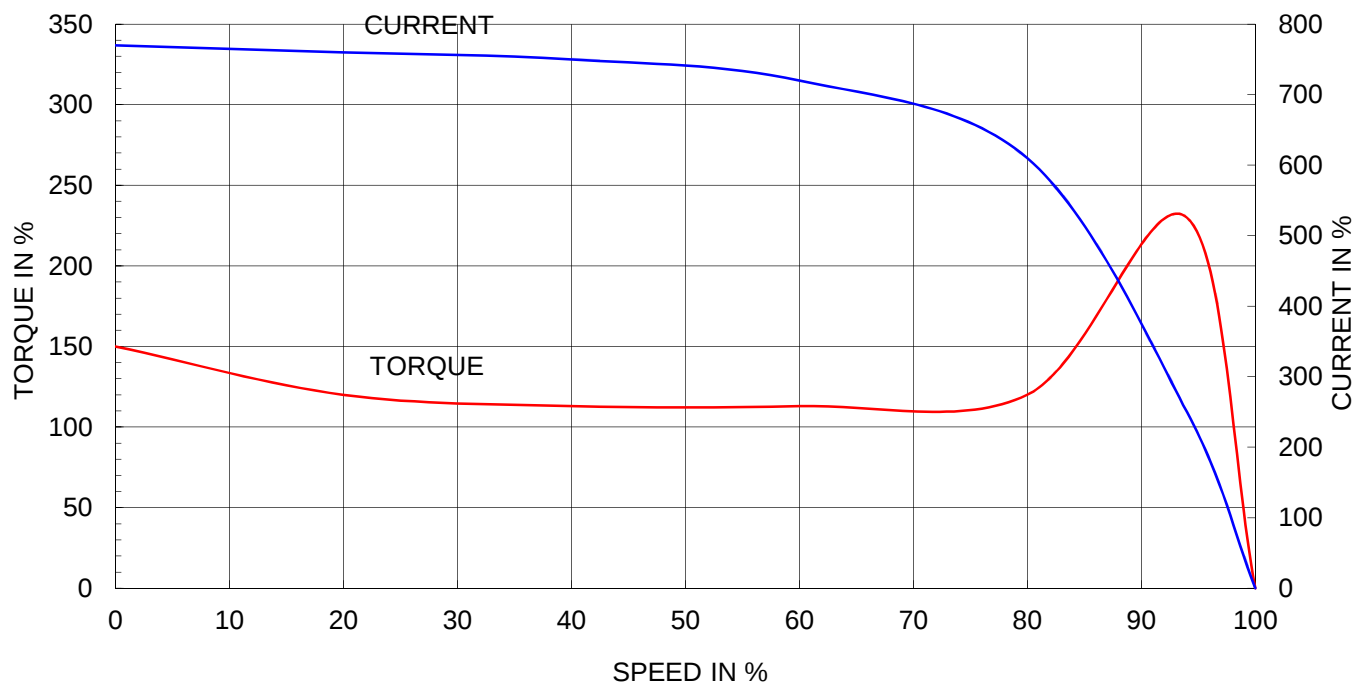
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.
 Inspection and performance test shall be maker standard, if not mentioned.
 * In case of Inverter-Fed 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.

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)

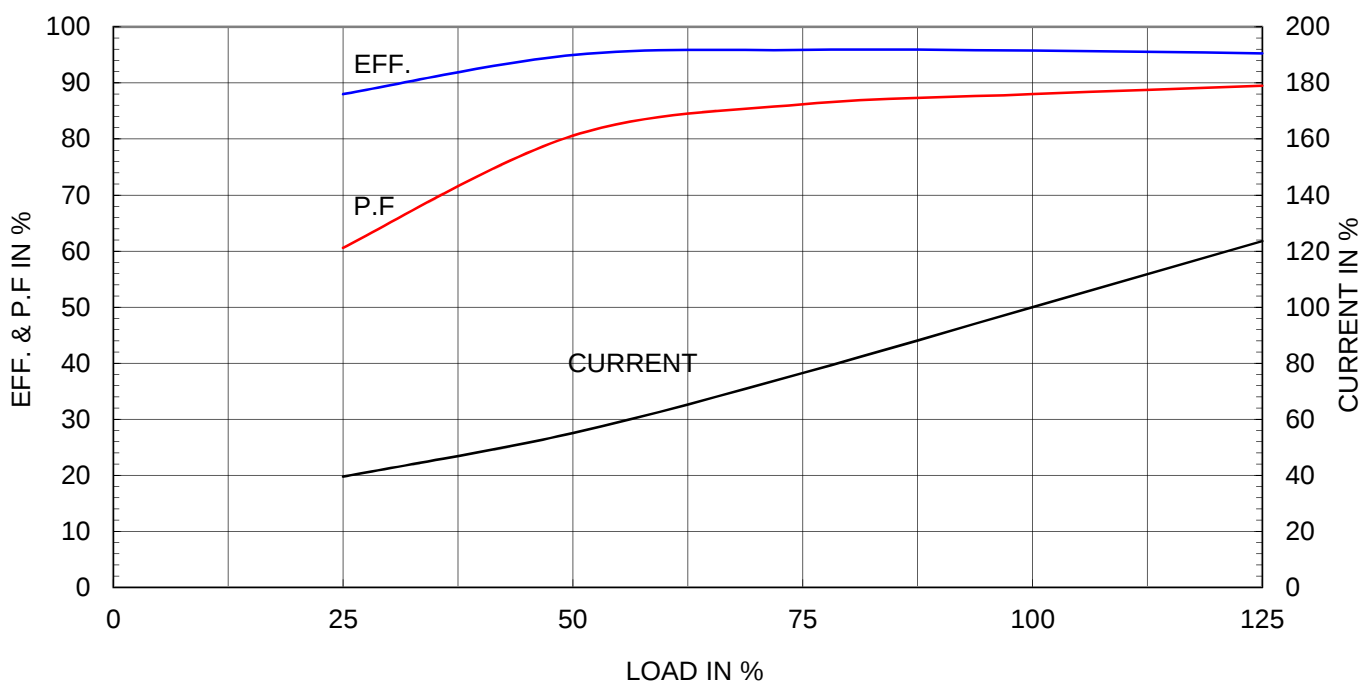
Type	:	HLP-132/4
Full Load Torque	:	72.0 Kg.m
Motor moment of Inertia (J)	:	3.415 Kg.m ²
Load moment of Inertia (J)	:	111.830 Kg.m ²

132 kW		4 P		60 Hz	
Speed at Full Load :				1785 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	205.5A	237.9A	410.9A		

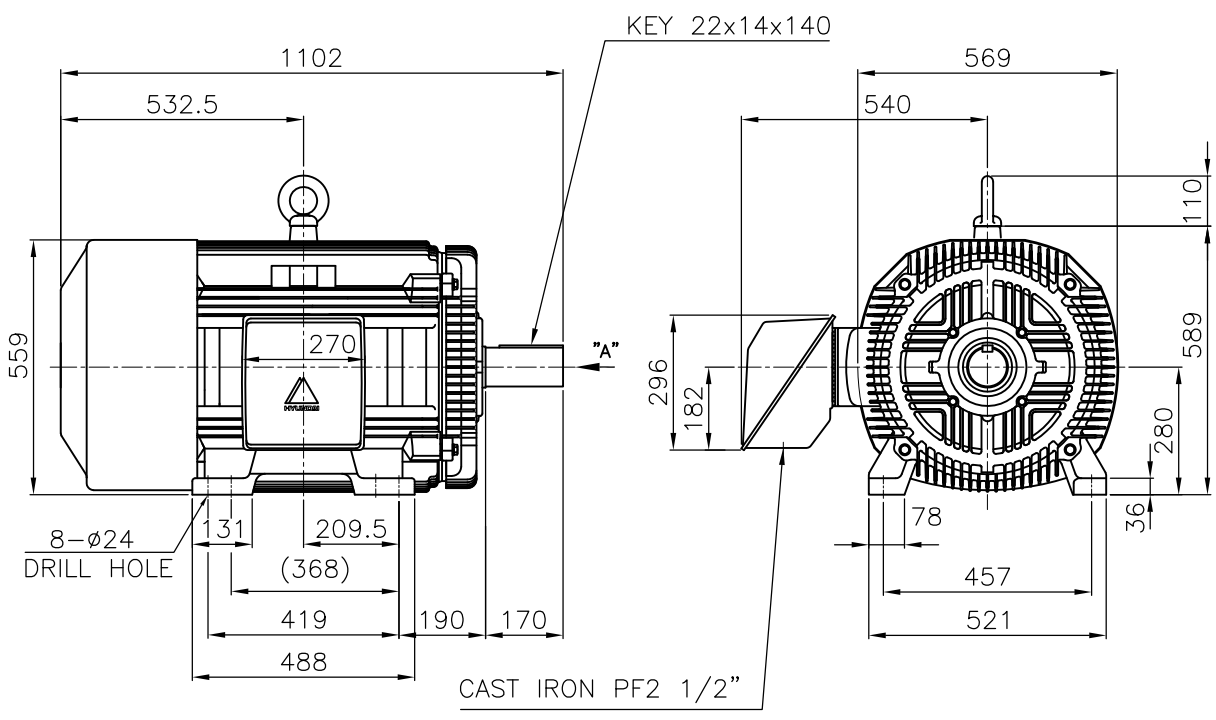
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



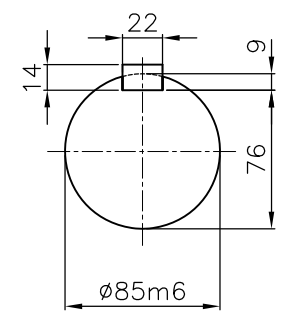
1	2	3	4
 HYUNDAI HEAVY INDUSTRIES CO., LTD.	TEFC THREE PHASE INDUCTION MOTOR	TYPE	(1) TNB , TDB
			CAST IRON FRAME



NOTE

1.TOLERANCE :

CENTER HEIGHT	280 $\begin{smallmatrix} 0 \\ -1.0 \end{smallmatrix}$
BASE HOLE	$\phi 24 \begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 85 \begin{smallmatrix} +0.035 \\ +0.013 \end{smallmatrix}$
KEYWAY WIDTH	$22 \begin{smallmatrix} -0.022 \\ -0.074 \end{smallmatrix}$
KEYWAY DEPTH	$9 \begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEYWAY WIDTH	$22 \begin{smallmatrix} 0 \\ -0.052 \end{smallmatrix}$
KEYWAY DEPTH	$14 \begin{smallmatrix} 0 \\ -0.110 \end{smallmatrix}$



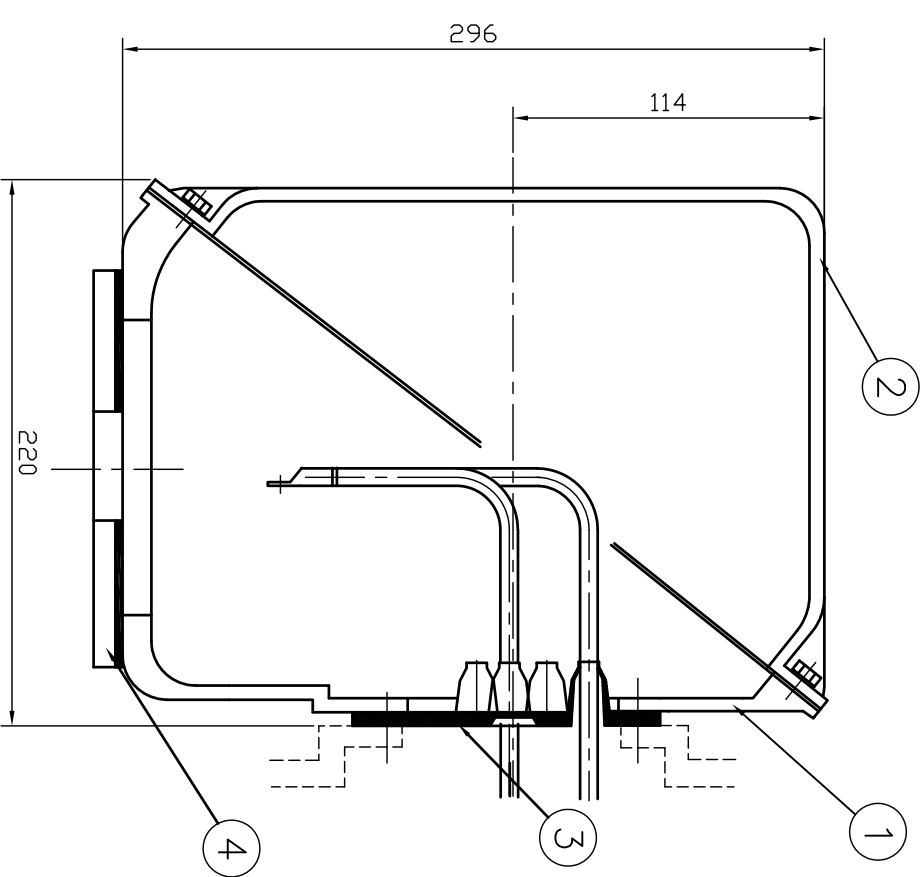
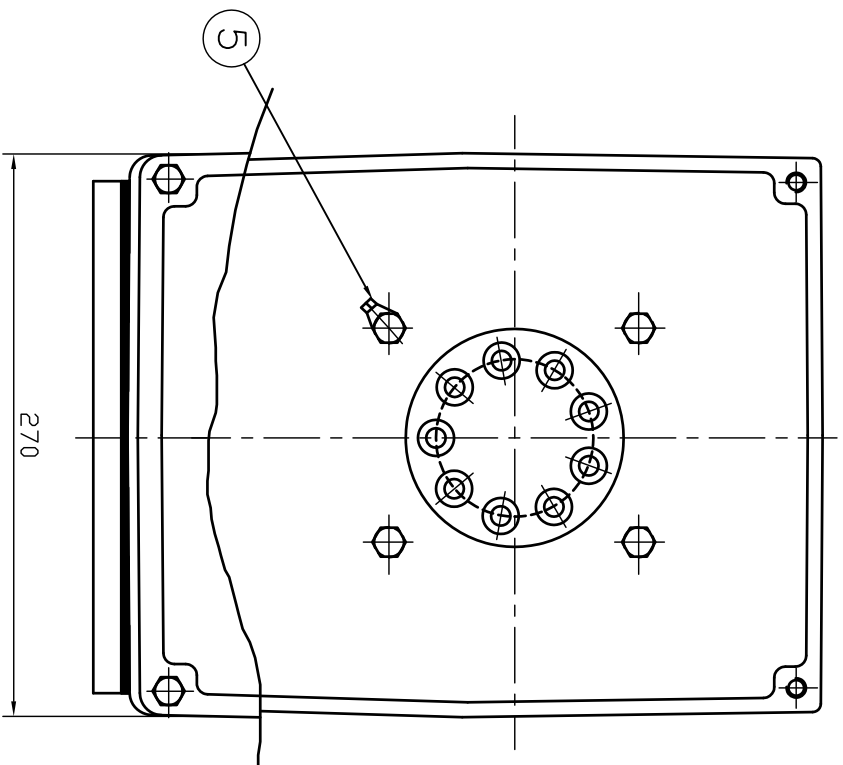
2.The type (1)–"TNB , TDB" is for HHI's
standard products and it can be
changed for customer's requirements
or detail designing.

TEFC STANDARD
CAD PROJ \ FILE
MMSTDMTR/TJ8MAP51

APPD BY	KANG K.J.	UNIT	MM
CHKD BY	KIM O.J.	SCALE	1/17
CHKD BY	LEE N.D.	PROJEC'N	3rd Angle
DSND BY	KIM RYANG GYU	DATE	2007.03.23

SUBJECT	KS Fr.280M TEFC
TITLE	OUTLINE THREE-PHASE INDUCTION MOTOR

REF. NO	L2-Series	Sheet No.	of
DWG NO	LM-T1283B3PL001	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
QTY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK NO.
APP'D BY	김진오	UNIT	MM	SUBJECT	HLA6 - 250,280Fr.	CAD PROJ. & FILE
Q.P. CHK	주영걸	SCALE	NONE	TITLE	(CAST IRON)	T-BOX-M \ 38016882
CHK'D BY	권오철	PROJEC'T	3 2nd (3rd Angle)	TERMINAL BOX ASS'Y		
DSND BY	김현태	DATE	92.06.05	REF. NO.		Sheet No. of
				DWG NO.	3M-016882	Revision No.