

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.			Rev. N	0. [0]		
Project Name		Project No.		Quantit	y se	ts			
GENERAL SPE		1 0			PERFORM	MANCE DAT	1 -		
Frame Size 250S			Rated Output 75 kW 100 HP						
Туре		HLP-75/4		Number of	Poles		4		
Enclosure(Protection)	Totally Enclosed (IP55)	Rotor Type		Squirrel Cage	;		
Method of	Cooling	IC411(FC)		Starting M	ethod*	D.O.L	□ Y-	. Д	
Rated Freq	uency	60 Hz		Rated Voltage		440 V	380 V	220 V	
Number of	Phases	3		Current 1	Full Load	119.3 A	138.1 A	238.5 A	
Insulation	Class	■ F □ B □ H		[]	Locked-rotor**	770 %	770 %	770 %	
Temp. Rise	at full load (b	by resistance method)		Efficiency					
at 1.0 S.F		80 deg. C			50% Load	94.1	%		
Motor Loca	ation	■ Indoor □ Outdoor			75% Load	95.4	%		
Altitude		Less than 1000 meter			100% Load	95.4	%		
Relative H	umidity	Less than 80 %		Power Factor(p.u)					
Ambient T		40 deg. C (Max.)		50% Load 0.784					
Duty Type	<u> </u>	Continuous (S1)		-	75% Load	0.845			
Service Fac	etor	1.15		-	100% Load	0.865			
Mounting		■ B3 □ B5 □ V1 □ B3/B5		Speed at Fi		ļ	r.p.m		
Modificing	Туре	Anti-Friction		Torque	un Loud	1,00	1.p.m		
Bearing	DE/N-DE	6316C3 / 6313C3			Full Load	41.0	kg⋅m		
Dearing	Lubricant	Grease(Gadus S2 V 100 2)		L.	Locked-rotor**	150			
External Th		Not applicable			Breakdown**				
Coupling N		■ Direct □ V-Belt			Breakdown** 250 % Moment of Inertia (J)				
Shaft Exter		■ Single □ Double		-	Load(Max.)	56.350	ka.m²		
Terminal	Main	☐ Steel ☐ Cast Iro			Motor	,	kg·m²		
Box	Aux.)11 		ssure Level (No-	<u> </u>	<u></u>	om motor)	
DOX				Soulid Fles	ssure Level (No-			om motor)	
Application	Location	Refer to Outline Drawing		82 dB(A) Vibration 2.2 mm/sec (r.m.s)				<u> </u>	
Area classi		Non-Hazardous		 		Cold 3 times			
Type of Ex		Not applicable		consecutive					
Applicable ACCESSO		KS,IEC, NEMA MG1 Part30(Vpeak)		Paint 1	Munsell No.				
ACCESSO	KIES			SUBMITTAL DRAWING Outline Dimension Drawing \ Motor Weight(Approx.)					
				Outline Di		,			
				-	B3	LM-T1251B3		500 kg	
				-	B5	LM-T1250B5		540 kg	
				-	V1	LM-T1250V		540 kg	
						LM-T1251B4	PL001	520 kg	
				Main T-Box	x Ass'y	3M-016882			
SPARE PARTS			REMARK Premium Efficiency						
				*. For use on PWM VFD 10:1		1VT, 3:1CT@	1.0S.F&F Tem _l	p. rise	
				Date	DSND	CHKD	CHKD	APPD	
				2015 00 5	5 D G		0.1	G 11 G G	
				2015-09-0	5 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.

 $[\]ensuremath{^{*}}$ 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.



PERFORMANCE CURVE

CURVE NO.

P-HLP-75/4

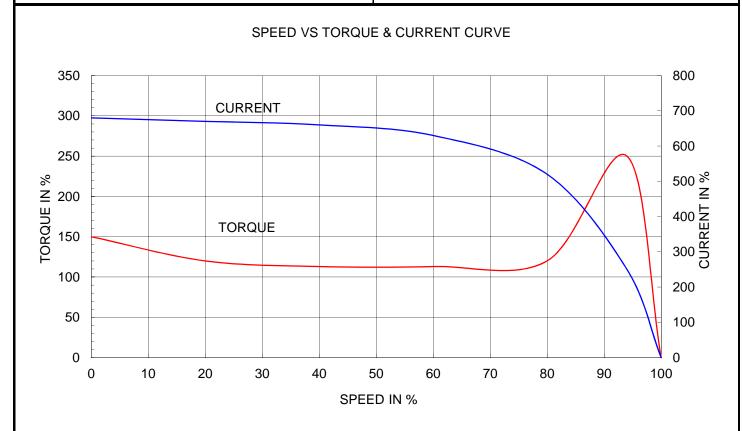
Type : HLP-75/4

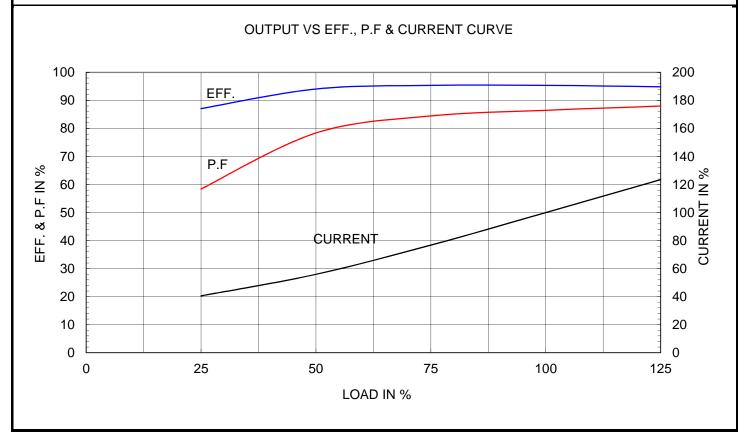
Full Load Torque : 41.0 Kg.m

Motor moment of Inertia (J) : 1.723 Kg.m²

Load moment of Inertia (J) : 56.350 Kg.m²

75 kW	4	Р	60 Hz		
Speed at Full Load:			1780	RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	119.3A	138.1A	238.5A		





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D

С

В

HYUNDAI
HEAVY INDUSTRIES CO., LTD.

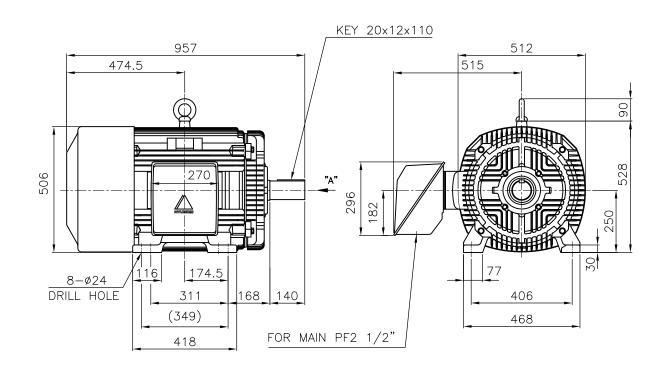
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

TNB , TDB

CAST IRON FRAME

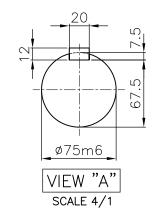


<u>NOTE</u>

1.TOLERANCE :

CENTER HEIGHT	$250_{-0.5}^{0}$
BASE HILE	ø24 ^{+0.43}
SHAFT DIAMETER	ø75 +0.030 +0.011
KEYWAY WIDTH	$20 {-0.022} \atop {-0.074}$
KEYWAY DEPTH	7.5 +0.2
KEY WIDTH	$20 \begin{array}{c} 0 \\ -0.052 \end{array}$
KEY HEIGHT	12 - 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.



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В

							TEFC STANDARD	
	APPD BY	KANG K.J.	UNIT	ММ	SUBJECT	KS Fr.250S-4P TEFC	CAD PROJ \ FILE	
l	CHKD BY	KIM O.J.	SCALE	1/15		N3 11.2303 - 41 1L1 C	MMSTDMTR/TJ5SAP51	
A	CHKD BY	LEE N.D.	PROJEC'N	3rd Angle	TITLE	OUTLINE		
	DSND BY	KIM RYANG GYU	(U DATE 2008.01.18		THREE-PHASE INDUCTION MOTOR			
	/ HYUNLM			REF. NO	L2-Series	Sheet No. of		
				DWG NO	LM-T1251B3PL001	Revision No. 0		

