

## AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.			Rev. N	lo. [	0 ]			
Project Name		Project	No.		Quant	ity se	ets			
		ECIFICATION				RMANCE DATA				
		225S	Rated Out			kW	60 HP			
		HS-45/6	Number o	1		6				
Enclosure(Protection)		Totally Enclosed (IP55)	Rotor Typ		Squirrel Cag					
		IC411(FC)	Starting N		D.O.L	□ Y	·-			
		60 Hz	Rated Vol		440 V					
		3		Full Load	75.6 A					
		■ F □ B □ H	4 ,	Locked-rotor**	630 %					
		by resistance method)	Efficiency		030 /	030 /	030 70			
	1.0 S.F	80 deg. C		50% Load	93.3	0/2				
		■ Indoor □ Outdoor	1	75% Load	93.7					
	ation	Less than 1000 meter		100% Load	93.6					
	umidity	Less than 80 %	Power Fac		93.0	70				
	<u>*</u>		TOWELL'AC	50% Load	0.750	1				
		40 deg. C (Max.)								
		Continuous (S1)		75% Load	0.825					
	ctor	1.15	C 1 T	100% Load	0.835					
Mounting	_	■ B3 □ B5 □ V1 □ B3/B5	Speed at F	full Load	1185	r.p.m				
	Type	Anti-Friction	Torque		27.0					
Frame Size Type Enclosure(Promethod of Control Rated Frequency Number of Promethod of Control Rated Frequency Number of Promethod of Control Rated Frequency Number of Promethod of Control Rated Frequency Rated Frequency Rated From Rise and Insulation Control Relative Human Ambient Tempouty Type  Service Factor Mounting  Bearing  The Coupling Meschaft External Thromaton Coupling Meschaft Extension Terminal Report Rated From Rated Control Rated From	DE/N-DE	6314C3 / 6213C3		Full Load		kg⋅m				
	Lubricant	Grease(Gadus S2 V 100 2)	1 1	Locked-rotor**	150					
		Not applicable		Breakdown**	230	%				
		■ Direct □ V-Belt	Moment of	of Inertia (J)						
		■ Single □ Double		Load(Max.)	101.050					
Terminal	Main	☐ Steel ☐ Cast Iron		Motor		kg⋅m²				
Box	Aux.	☐ Yes ■ No	Sound Pre	Sound Pressure Level (No-load & mean value at 1m fro						
	Location	Refer to Outline Drawing	73 dB(A)							
Application	n		Vibration		2.2	mm/sec (r.n	1.s)			
Area classi	ification	Non-Hazardous	Permissib	le number of	Cold 3	times				
Type of Ex	x-Protection	Not applicable	consecutiv	ve starts	Hot 2	times				
Applicable	Standard	KS,IEC,NEMA MG1 Part30(Vpeak)	Paint	Munsell No.	4.0PB5.4/5.5	5(VL-451)				
ACCESSO	ORIES			SUBMITT	AL DRAWI	NG				
			Outline D	imension Drawi	ng \	Motor Weig	ght(Approx.)			
				В3	TJ2SAP51		380 kg			
				B5			kg			
				V1			kg			
				B3/B5			kg			
			Main T-Bo	ox Ass'y	3M-016881	1				
				•						
SPARE PARTS			REMARK		High Effici	encv				
DITHELITHEID				on PWM VFD 10:			ın rise			
			. Tor use c	on i wwi vib io.	1 1 1 , 5.101 @	1.05.1 &1 1011	ip. Hsc			
			Date	DSND	CHKD	CHKD	APPD			
			2010.05.0	DC VIV	O L WD4	III IZINA	VIVANO			
			2010-05-2	R.G. KIM	O.J. KIM	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.

HHI W230-131-1 \* In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests.

 $<sup>\</sup>ensuremath{^{*}}$  In case of Inverter-Fed Motor, performance data is based on sine wave tests.

<sup>\*\*</sup> 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-HS-45/6

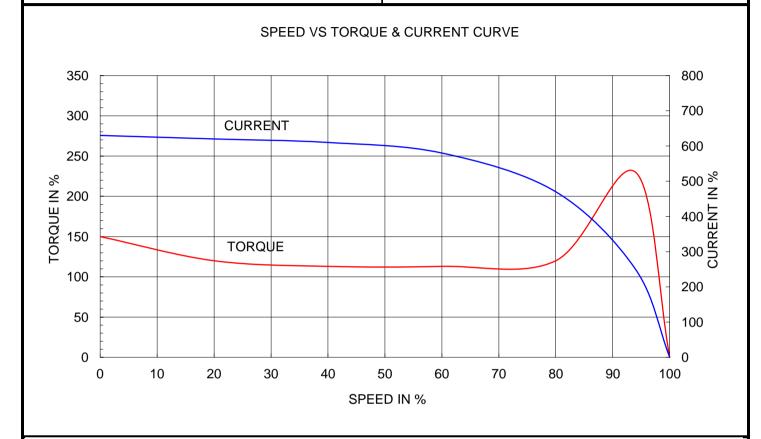
Type : HS

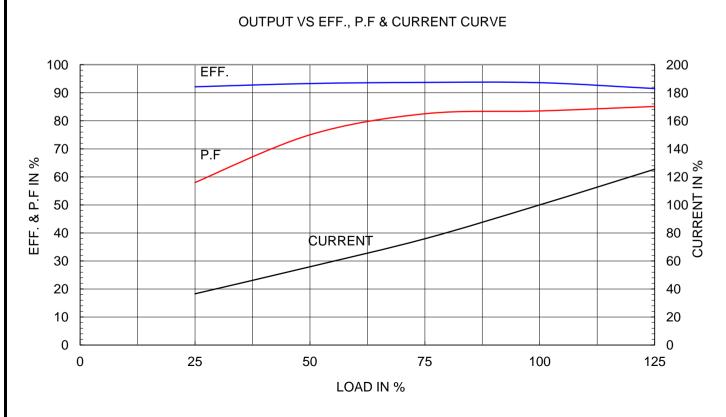
Full Load Torque : 37.0 Kg.m

Motor moment of Inertia (J) : 1.555 Kg.m²

Load moment of Inertia (J) : 101.050 Kg.m²

45 <b>kW</b>	6	Р	60 <b>Hz</b>		
Speed at Full Load:			1185	RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	75.6A	87.5A	151.1A		





Ε

D

В

HYUNDAI HEAVY INDUSTRIES CO., LTD.

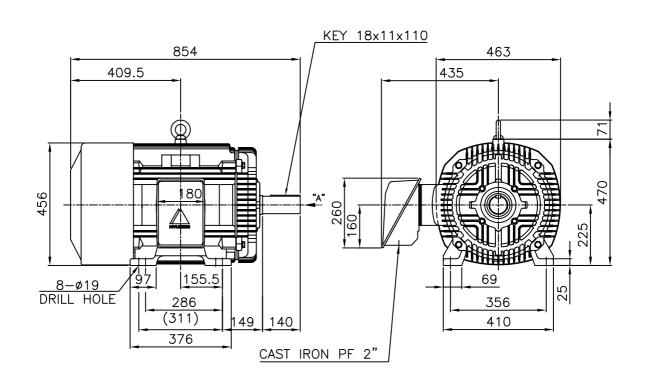
# TEFC

THREE PHASE INDUCTION MOTOR

TYPE

TNB , TDB

CAST IRON FRAME

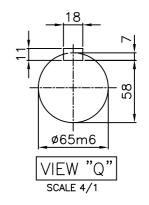


### NOTE

#### 1.TOLERANCE

110L .	
CENTER HEIGHT	$225 \begin{array}{c} 0 \\ -0.5 \end{array}$
BASE HOLE	ø19 <sup>+0.43</sup>
SHAFT DIAMETER	ø65 +0.030 +0.011
KEYWAY WIDTH	18 <sup>-0.018</sup> -0.061
KEYWAY DEPTH	7 +0.2
KEY WIDTH	18 0 -0.043
KEY HEIGHT	11 <sup>0</sup> -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.



_	_											_
I										TEFC :	STANDARD	
		APPD BY	KANG K.J.	UNIT	ММ		SUBJECT	KS Fr.225S TEFC		CAD PRO	· · · · · · · · · · · · · · · · · · ·	]
ı	Ī	CHKD BY	KIM O.J.	SCALE	1/15					MMSTDMTR/TJ2SAP		51
	Α[	CHKD BY	LEE N.D.	PROJEC'N	3rd Ang	gle	OUTLINE				A	
ı		DSND BY KIM RYANG GYU DATE 2007.03.23			:3	THREE-PHASE INDUCTION MOTOR						
l						REF. NO	L	2-Series	Sheet N	o. of		
		HEAVY INDUSTRIES CO., LTD. INDUSTRIAL & POWER SYSTEMS		D., LTD. Systems		DWG NO	TJ	2SAP51	Revision	n No. O		
ı	1 2				- 3		4			_		

