

AC INDUCTION MOTOR DATA SHEET

	*** ***********************************	701,2151								
Model No.or RFQ No. Item No.							Rev. No. [0]			
			Project	No.			Quantity sets			
		PECIFICATION		PERFORMANCE DATA						
	<u> </u>	225S		Rated Outpu		45	kW	60 HF) 	
<u></u>		HLP-45/6		Number of I	Poles		6			
`		Totally Enclosed (IP55)	Rotor Type		Squirrel Cage	<u>)</u>			
Method of Cooling		IC411(FC)		Starting Me		D.O.L				
		60 Hz		Rated Volta		440 V	380 \	V	220 V	
Number of	Phases	3		Current F	ull Load	76.2 A	88.2	A 1	52.4 A	
		■ F □ B □ F	·		ocked-rotor**	750 %	750 9	%	750 %	
		by resistance method)		Efficiency_						
at	1.0 S.F	80 deg. C			50% Load	94.2				
	ation	■ Indoor □ Outdoo	or		75% Load	94.7	%			
		Less than 1000 meter			100% Load	94.5	%			
Relative H	umidity	Less than 80 %		Power Facto						
Ambient T	emp.	40 deg. C (N	Max.)		50% Load	0.735				
Duty Type		Continuous (S1)			75% Load	0.800				
Service Fac	ctor	1.15			100% Load	0.820				
Mounting		■ B3 □ B5 □ V1 □	B3/B5	Speed at Ful	ll Load	1185	r.p.m			
	Type	Anti-Friction		Torque				sets 60 HP □ Y- △ 380 V 220 V 3.2 A 152.4 A 750 % 750 9 1 Im from motor) cc (r.m.s) Weight(Approx.) 380 kg 420 kg 420 kg 440 kg 400 kg		
Bearing	DE/N-DE	6314C3 / 6213C3	3	F	ull Load	37.0	kg⋅m			
Frame Size Type Enclosure(Pro Method of Co Rated Frequer Number of Ph Insulation Cla Temp. Rise at at 1.0 Motor Location Altitude Relative Hum Ambient Tem Duty Type Service Factor Mounting External Thru Coupling Met Shaft Extension Terminal M Box A Application Area classifice	Lubricant	Grease(Gadus S2 V 100 2)			ocked-rotor**	150	%			
External Tl	hrust	Not applicable		В	reakdown**	230	%			
Coupling N	Method	■ Direct □ V-Belt		Moment of l	Inertia (J)					
Shaft Extension		■ Single □ Double	2		oad(Max.)	101.050	kg·m²			
		☐ Steel ☐ Cast Ir	on	N	Aotor	1.555	kg·m²			
Box	Aux.	☐ Yes ■ No		Sound Press	ure Level (No-	load & mean	value at 1m	from mo	otor)	
Location		Refer to Outline Drawing					dB(A)			
Application	n			Vibration		2.2	mm/sec (r.i	n.s)		
		Non-Hazardous		Permissible	number of	Cold 3	times			
Type of Ex-Protection		Not applicable		consecutive	starts		times			
		KS,IEC, NEMA MG1 Part30(Vpeak)	Paint M	Iunsell No.	4.4PB5.5/5.60	(VL-451)			
				'	SUBMITT	AL DRAWI	NG			
				Outline Dim	nension Drawii			ght(Apr	rox.)	
İ					В3	LM-T1221B3		T		
					B5	LM-T1225B5			kg	
					V1	LM-T1225V1				
					B3/B5	LM-T1221B4				
				Main T-Box		3M-016881				
SDARE DA	APTS			REMARK		Promium E	fficioney			
SPARE PA	ARTS			REMARK * For use on	DWM VED 10	Premium E	•	nn risa		
SPARE PA	ARTS				PWM VFD 10:		•	mp. rise		
SPARE PA	ARTS				PWM VFD 10:		•	mp. rise		
SPARE PA	ARTS				PWM VFD 10:		•	mp. rise		
SPARE PA	ARTS				PWM VFD 10:		•	mp. rise		
SPARE PA	ARTS			*. For use on		1VT, 3:1CT@	1.0S.F&F Tei			
SPARE PA	ARTS				PWM VFD 10:		•		PPD	
SPARE PA	ARTS			*. For use on		1VT, 3:1CT@	1.0S.F&F Tei	Al	PPD L 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-45/6

Type : HLP-45/6

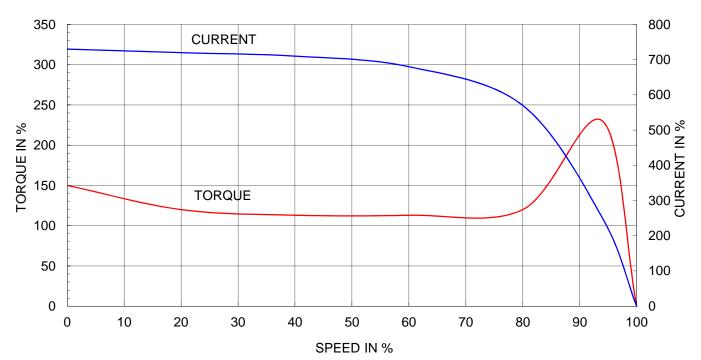
Full Load Torque : 37.0 Kg.m

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

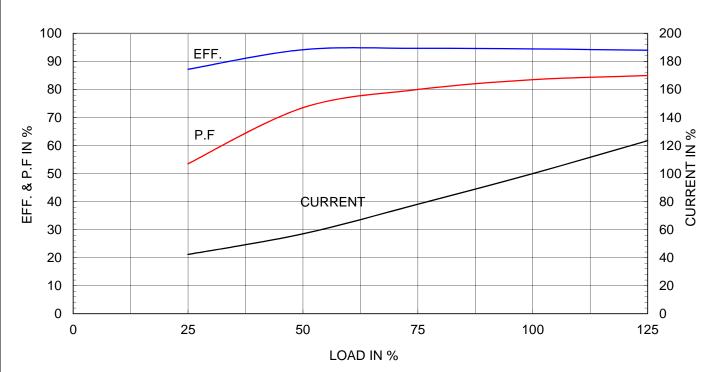
Load moment of Inertia (J) : 101.050 Kg.m²

45 kW	6	Р	60 Hz			
Speed at Full Load:			1185	RPM		
Rated Voltage	440V	380V	220V			
Full Load Current	74.8A	86.6A	149.7A			









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В

HYUNDAI HEAVY INDUSTRIES CO., LTD.

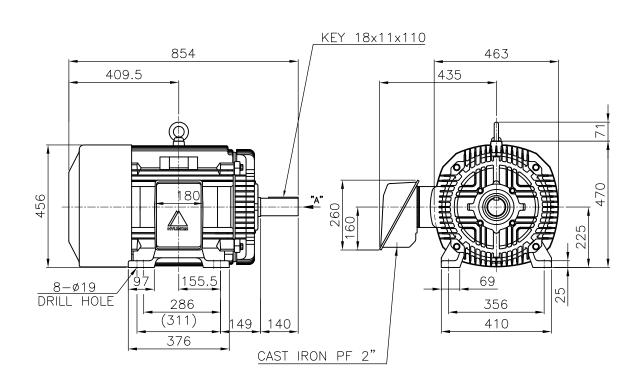
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

TNB , TDB

CAST IRON FRAME

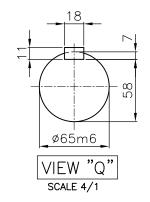


NOTE

1.TOLERANCE:

CENTER HEIGHT	$225_{-0.5}^{0}$
BASE HOLE	ø19 ^{+0.43}
SHAFT DIAMETER	ø65 +0.030 +0.011
KEYWAY WIDTH	18 ^{-0.018} -0.061
KEYWAY DEPTH	7 +0.2
KEY WIDTH	$18 \begin{array}{c} 0 \\ -0.043 \end{array}$
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.



В

l										TEFC	STANI	DARD	
ı	Ī	APPD BY	KANG K.J.	UNIT	ММ		SUBJECT	KS Fr.2	25S-4P TEFC	CAD PRO	· · ·	FILE	
ı		CHKD BY	KIM O.J.	SCALE	1/15		TITLE			MMSTDMT	R/IJ2	2SAP51	+
ı	Α	CHKD BY	LEE N.D.	PROJEC'N	3rd And	gle	OUTLINE						A
ı		DSND BY KIM RYANG GYU DATE 2007.03.23				23		THREE-P	HASE INDUCTION I	N MOTOR			
l		HEAVY INDUSTRIES CO.: LTD. INDUSTRIAL & POWER SYSTEMS			REF. NO	EF. NO L2-Series Sheet No. c			of				
					DWG NO	DWG NO LM-T1221B3PL001 Revision N			n No.	0			
L		1 2			3 4				•				

