	HYUNDAI				
FLECTRIC					

AC INDUCTION MOTOR DATA SHEET

Model No.o	r RFQ No.			Item No.			Rev. No.	[0]	
Project Nam				Project No.			Quantity	set	
	GENERA	AL SPECIFICAT	ION		PER	PERFORMANCE DATA			
Frame Size		200LL		Rated Outpu	ıt	45 kW	<i>I</i>	60 HP	
Туре		HLP-45/4		Number of I	Poles		4		
Enclosure(P	Protection)	Totally Enclosed	(IP55)	Rotor Type		Squirrel Cage			
Method of C	Cooling	IC411(FC)		Starting Method*		■ D.O.L □ Y-△			
Rated Frequ	iency	60 Hz		Rated Voltage		440 V	7 380	V 220 V	
Number of I		3			Full Load	75.8 A	A 87.8	A 151.6 A	
Insulation C	Class	■ F □ B □ H		1	Locked-rotor**	745 9			
Temp. Rise	at full load (by	resistance method)		Efficiency		I	·		
	1.0 S.F	80 °C		1 1	50% Load	93.	.2 %		
Motor Loca	tion	■ Indoor □ Outdoor		1	75% Load		.1 %		
Altitude		Less than 1000		1	100% Load		.0 %		
Relative Hu	midity	Less than 80 %		Power Facto	Power Factor(p.u)				
Ambient Te		40 °C MAX.			50% Load	0.740)		
Duty Type		Continuous(S1)		1	75% Load	0.79			
Service Fact	tor	1.15		1	100% Load	0.820			
Mounting		□ B3 ■ B5	□ V1 □ B3/B5	Speed at Ful					
	Туре	Anti-Friction	1	Speed at Full Load 1775 r.p.m Torque					
Bearing	DE/N-DE	6313ZC3	/ 6212ZC3		Full Load	24	7 kg.m		
Bearing	Lubricant	Grease(Polyrex-E		4 .	Locked-rotor**		60 %		
External Th		Not applicable	.,,,		Breakdown**		0 %		
Coupling M		Direct	☐ V-Belt	Moment of 1		21	0 70		
Shaft Extens		■ Single	☐ Double		Load(Max.)	37.0394366	2 kg.m²		
Shart Extens	Main	☐ Steel	Cast Iron	1	Motor				
Terminal	Aux.	☐ Yes	No No					otor)	
Box	Location	Refer to Outline D	_	Sound Pressure Level (No-load & mean value at 1m from motor) 72 dB(A)					
Application		Refer to Outline L	nawing	Vibration 2.2 mm/sec(r.m.s)			<u>c)</u>		
Area classif		Non-Hazardous				Cold 3 times			
Type of Ex-		Not applicable		<u> </u>			2 times		
Applicable S		KS, IEC, NEMA MG1 Part30(Vpeak)							
	SSORIES	KS, IEC, NEWA	vioi raitso(v peak)	Paint Munsell No. Panton279C SUBMITTAL DRAWING					
ACCE	BOOKIES	l		Outling Dim	nension Drawing	MITTAL DRA		Veight(Approx.)	
					B3		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	
				}	B5	LM-T1207B5	DI V()1	320 kg	
				-	V1	LWI-1120/B3	FLVUI		
								kg	
				Main T-Box	B3/B5		kg		
				Maiii 1-box	Ass y	3M-145864			
				DI	EM A DIZ				
					EMARK	1			
			*.Premium Efficiency(IE3) * For use on PWM VED 10:1VT 3:1CT@1 0S E&E Temp rise						
*.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise					p.rise				
~~		1		4					
SPARE PARTS									
					Dane	GIWD.	CHIE	4,555	
				Date	DSND	CHKD	CHKD	APPD	
				2010 11 2	n C Will		0.1.177		
				2018-11-23	R.G. KIM		O.J. KIM	S.K.HAN	
NINE CHIES III	mennonea nr nns aara	sneet snan de in accordan	ce wiiii maker sianuaru.			lv.	rade iii vietiiaiii		

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.

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

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

** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.



PERFORMANCE CURVE

CURVE NO.

PI-HLP-45/4

Type :	HLP-45/4
Full Load Torque:	24.7 Kg-m
Load moment of Inertia (J):	37.039 Kg-m²
Motor moment of Inertia (.I):	0.546 Ka-m²

45kW 6	0HP	4P	60 Hz
Speed at Full Load:		17	75 RPM
Rated Voltage	440V	380V	220V
Full Load Current	75.8A	87.8A	151.6A







