

## AC INDUCTION MOTOR DATA SHEET

	or RFQ No.	Item No					Rev. No. [ 0 ]		
Project Name			Project 1	No.		Quantit	•	ts	
		ECIFICATION			PERFORM	MANCE DAT			
Frame Size	;	250M		Rated Outp	out	90	kW 1	20 HP	
Type		HLP-90/4		Number of	Poles		4		
Enclosure(	Protection)	Totally Enclosed (IP55	)	Rotor Type	<del></del>	Squirrel Cage	;		
Method of	Cooling	IC411(FC)		Starting M		D.O.L	☐ Y-	Λ	
Rated Freq		60 Hz		Rated Volt		440 V	380 V	220 V	
Number of		3			Full Load	143.1 A	165.7 A	286.2 A	
Insulation (		■ F □ B □ H			Locked-rotor**	770 %	770 %	770 %	
		y resistance method)		Efficiency	Locked-Totol	770 70	770 70	770 70	
	1.0 S.F	<del>*</del>		Efficiency	50% Load	94.6	0/		
				-					
Motor Location Altitude		■ Indoor □ Outdoor		-	75% Load	95.5			
Altitude Relative Humidity		Less than 1000 meter		Power Factor(p.u)		95.4 %			
		Less than 80 %		Power Fact					
Ambient To	emp.	40 deg. C (M	Iax.)		50% Load	0.784			
Duty Type		Continuous (S1)			75% Load	0.845			
Service Fac	ctor	1.15			100% Load	0.865			
Mounting		□ B3 □ B5 □ V1 ■	B3/B5	Speed at Fi	ull Load	1785	r.p.m		
	Туре	Anti-Friction		Torque					
Bearing	DE/N-DE	6316C3 / 6313C3			Full Load	49.1	kg⋅m		
	Lubricant	Grease(Gadus S2 V 100 2)		j	Locked-rotor**	150			
External Th		Not applicable		l li	Breakdown**	230	%		
Coupling N		Direct V-Belt		Moment of					
Shaft Exter		■ Single □ Double			Load(Max.)	63.530	ko·m²		
Terminal	Main	☐ Steel ☐ Cast Iro		ļ	Motor	<del></del>	kg·m²		
Box	Aux.	<u> </u>	)11 		ssure Level (No-	·		om motor)	
вох				Sound Pres	ssure Level (No-			om motor)	
A 1: .:	Location	Refer to Outline Drawing		X 7'1		<u> </u>	dB(A)		
Application				Vibration		2.2 mm/sec (r.m.s)			
Area classification		Non-Hazardous		Permissible number of			times		
Type of Ex-		Not applicable		consecutive			times		
Applicable		KS,IEC, NEMA MG1 Part30(V	/peak)	Paint 1	Munsell No.	4.4PB5.5/5.6	(VL-451)		
ACCESSO	RIES				SUBMITT	'AL DRAWII	NG		
				Outline Di	mension Drawii	ng \	Motor Weigh	t(Approx.)	
					В3	LM-T1253B3	3PL001	530 kg	
					B5	LM-T1250B5	5PL001	570 kg	
					V1	LM-T1250V	IPL001	570 kg	
					B3/B5	LM-T1253B4		550 kg	
				Main T-Box		3M-016882			
					<u>.</u>				
CD A DE DA DEC				T 00°					
SPARE PARTS				REMARK		Premium Efficiency			
				*. For use on PWM VFD 10:		1VT, 3:1CT@	1.0S.F&F Tem <sub>l</sub>	o. rise	
				Date	DSND	CHKD	CHKD	APPD	
				2015-09-0	5 R.G. KIM		O.J. KIM	S.H. GO	
				201 <i>3</i> -07-0.	S K.O. KIW		O.J. IXIIVI	5.11. 00	
N . O .				-					

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.

<sup>\*</sup> 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-HLP-90/4

Type : HLP-90/4

Full Load Torque : 49.1 Kg.m

Motor moment of Inertia (J) : 1.940 Kg.m²

Load moment of Inertia (J) : 63.530 Kg.m²

90 <b>kW</b>	4	Р	60 <b>Hz</b>		
Speed at Full Load:			1785	RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	143.1A	165.7A	286.2A		







