

AC INDUCTION MOTOR DATA SHEET

HEAVY INDUSTRIE	S CO.,LTD.							
Model No.or RFQ No.			Item No	Э.		Rev. N	ō. [0]
		Project	No.		Quanti	ty se	ts	
	SPECIFICAT	ION	1 3		PERFOR	MANCE DA		
Frame Size	280S			Rated Outp				50 HP
Type HLP-110/2			Number of Poles		2			
Enclosure(Protection) Totally Enclosed (IP55))	Rotor Type		Squirrel Cage			
Method of Cooling IC411(FC)			Starting Method*		$\square D.O.L \qquad \square Y- \triangle$			
Rated Frequency 60 Hz			Rated Voltage		440 V		220	
Number of Phases 3				Current Full Load		168.8 A		337.6
		□ B □ F	 I	·	Locked-rotor**	780 %		
			1	Efficiency	Locked-Totol	700 70	700 /0	700
Temp. Rise at full load (by resistance method) at 1.0 S.F 80 deg. C			50% Load 93.5 %					
Motor Location Indoor		\square Outdoo	or	75% Load		95.0		
Altitude		Less than 1000 meter		100% Load		95.0 %		
Relative Humidity		Less than 80 %		Power Fact		95.0 %		
Ambient Temp.			Max)		50% Load	0.870		
<u> </u>	C ···	40 deg. C (N	viax.)	-				
Duty Type		Continuous (S1)		-	75% Load	0.890		
Service Factor	1.15			0 1	100% Load	0.900		
Mounting		·······	B3/B5	Speed at Fu Torque		3570	r.p.m	
Туре		Anti-Friction						
Bearing DE/N-DE	6314C3			Full Load		30.0 kg·m		
Lubricant		Grease(Gadus S2 V 100 2)		·	_ocked-rotor**	150 %		
External Thrust Not applicable		ble		I	Breakdown**	250	%	
Coupling Method	Direct	V-Belt		Moment of	Inertia (J)			
Shaft Extension	Single	Double	•		Load(Max.)	12.350		
Terminal Main	Steel	Cast Ir	on		Motor	2.100	kg·m ²	
Box Aux.	□ Yes ■ No		Sound Pressure Level (No-load & mean value at 1m from motor)					
Location	Refer to Out	Refer to Outline Drawing		-		90	dB(A)	
Application			Vibration		2.2	mm/sec (r.m	.s)	
Area classification	Non-Hazard	Non-Hazardous			e number of		times	
Type of Ex-Protection	Not applicable		consecutive starts			times		
Applicable Standard KS,IEC, NEMA MG1 Part30(V		Vpeak)		Munsell No.	4.4PB5.5/5.6	(VL-451)		
ACCESSORIES	, ,	,	1 /			AL DRAWI	· · · · ·	
				Outline Dir	mension Drawi		Motor Weigh	nt(Approx.
				[B3	LM-T1281B		730 k
				-	B5	LM-T1280B		800 k
				-	<u>V1</u>	LM-T1280V		
				-				·
				B3/B5 Main T-Box Ass'y		LM-T1281B	tCLUUI	765 k
				Main I-Box Ass y		3M-016882		
SPARE PARTS			REMARK		Premium Efficiency			
					PWM VED 10	:1VT, 3:1CT@1.0S.F&F Temp. rise		
				*. For use of	I PWM VFD 10	:1 v 1, 5:101@	1.0S.F&F Temj	p. nse
				Date	DSND	CHKD	CHKD	APPD
				2015-09-05	5 R.G. KIM	-	O.J. KIM	S.H. GO

** 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.





