

AC INDUCTION MOTOR DATA SHEET

Model No	or RFQ No.	•	Item No	0.		Rev. I	No. [0]	
Project Name		Project 1				Quant	ity s	ets	
(GENERAL SI	PECIFICATION			PERFOR	MANCE DA	•		
Frame Size	e	280S		Rated Outp				150 HP	
Туре		HS-110/4		Number of			4		
	(Protection)	Explosion Proof (IP55)	Rotor Type		Squirrel Cag	ge	-	
Method of	Cooling	IC411(FC)		Starting Me		D.O.L	Y		
Rated Free		60 Hz		Rated Volta		440 V			
Number of		3			Full Load	172.7 A	199.9 A	345.3 A	
Insulation	Class	■ F □ B □ H		Ī	Locked-rotor**	730 %	6 730 %	6 730 %	
Temp. Ris	e at full load (by resistance method)		Efficiency					
at 1.0 S.F Motor Location		80 deg. C		1 [50% Load	94.2	2 %		
	cation	☐ Indoor ☐ Outdoor]	75% Load	94.9			
Altitude		Less than 1000 meter	ess than 1000 meter		100% Load 95.0 %				
Relative Humidity		Less than 80 %		Power Fact				<u> </u>	
Ambient T		40 deg. C (M	lax.)]	50% Load	0.780			
Duty Type		Continuous (S1)		1 _	75% Load	0.85			
Service Fa	actor	1.00			100% Load	0.880			
Mounting			B3/B5	Speed at Fu	ıll Load	1785	5 r.p.m		
	Type	Anti-Friction		Torque					
Bearing	DE/N-DE	6318C3 / 6314C3		F	Full Load	60.0) kg·m		
	Lubricant	Grease(Gadus S2 V 100 2)		I	Locked-rotor**	180) %		
External T	hrust	Not applicable] E	Breakdown**	230) %		
Coupling 1	Method	■ Direct □ V-Belt		Moment of	Inertia (J)				
Shaft Exte	ension	■ Single □ Double] []	Load(Max.)	78.200) kg ·m²		
Terminal	Main	☐ Steel ☐ Cast Iro	on]	Motor	3.023	3 kg⋅m²		
Box	Aux.	☐ Yes ■ No		Sound Pres	sure Level (No	o-load & mean value at 1m from motor)			
<u></u>	Location	Refer to Outline Drawing		84 dB(A)					
Applicatio	on			Vibration		2.2 mm/sec (r.m.s)			
Area class	ification	Hazardous		<u> </u>		Cold 3 times			
Type of E	x-Protection	Ex d II T4		consecutive	e starts		2 times		
	e Standard	KS,IEC		Paint N	Munsell No.	4.0PB5.4/5.	5(VL-451)		
ACCESSO	DRIES		_			TAL DRAW	ING		
				Outline Dir	mension Drawi	ng \	Motor Wei	ght(Approx.)	
				 	В3			kg	
				 	B5	0		0 kg	
				<u> </u>	V1	GJ80PP02		1030 kg	
					B3/B5	0		0 kg	
				Main T-Box	k Ass'y	3M-036962			
SPARE PARTS			_	REMARK		High Efficiency			
				Date	DSND	CHKD	CHKD	APPD	
				2010-05-28	R.G. KIM	O.J. KIM	J.H. KIM	K.J. KANG	
				<u> </u>					

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-HS-110/4

Type : GHB280M

Full Load Torque : 60.0 Kg.m

Motor moment of Inertia (J) : 3.023 Kg.m²

Load moment of Inertia (J) : 78.200 Kg.m²

110 kW	4	Р	60 Hz		
Speed at Full Load:			1785	RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	172.7A	199.9A	345.3A		







