

## AC INDUCTION MOTOR DATA SHEET

Model No	or RFQ No.		Item No	0.		Rev. N	lo. [	0 ]		
Project Name			Project No.		Quanti	ity s	ets			
(	GENERAL SPECIFICATION				PERFORMANCE DATA					
Frame Size	e	280M		Rated Outp				150 HP		
Type		HS-110/6		Number of			6			
	(Protection)	Explosion Proof (IP55	)	Rotor Type	,	Squirrel Cag	ge			
Method of	Cooling	IC411(FC)	,	Starting Me		D.O.L	□ Y	´- Δ		
Rated Free	quency	60 Hz		Rated Volta	age	440 V				
Number of	f Phases	3		Current F	Full Load	176.7 A	204.6 A	353.3 A		
Insulation	Class	<b>■</b> F □ B □ H		Ī	ocked-rotor**	700 %	700 %	700 %		
Temp. Ris	e at full load (	by resistance method)		Efficiency						
at 1.0 S.F		80 deg. C			50% Load	94.7	%			
Motor Loc	cation	☐ Indoor ☐ Outdoor	r		75% Load	95.1	%			
Altitude		Less than 1000 meter		100% Loa		95.0	%			
Relative H	lumidity	Less than 80 %		Power Fact	or(p.u)					
Ambient T	emp.	40 deg. C (M	lax.)		50% Load	0.797	7			
Duty Type	;	Continuous (S1)			75% Load	0.849	)			
Service Fa	ctor	1.00			100% Load	0.860	)			
Mounting		□ B3 □ B5 ■ V1 □	B3/B5	Speed at Fu	ıll Load	1185	r.p.m			
	Type	Anti-Friction		Torque		•				
Bearing	DE/N-DE	6318C3 / 6314C3		F	Full Load	90.4	kg ·m			
	Lubricant	Grease(Gadus S2 V 100 2)		I	ocked-rotor**	170				
External T	hrust	Not applicable		E	Breakdown**	250	%			
Coupling 1	Method	■ Direct □ V-Belt		Moment of	Inertia (J)	·				
Shaft Exte		■ Single □ Double		_	Load(Max.)	204.975	kg⋅m²			
Terminal	Main	☐ Steel ☐ Cast Iro	n	]	Motor		kg⋅m²			
Box	Aux.	☐ Yes No		Sound Pres	sure Level (No	o-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing		80 dB(A)						
Applicatio				Vibration		2.2	mm/sec (r.r.	n.s)		
Area classification		Hazardous		Permissible number of		Cold 3 times				
Type of Ex-Protection		Ex d II T4		consecutive	estarts	Hot 2	times			
Applicable		KS,IEC		Paint N	Junsell No.	4.0PB5.4/5.5	5(VL-451)			
ACCESSO				SUBMITTAL DRAWING						
				Outline Dir	nension Drawi	ng \	Motor Wei	ght(Approx.)		
					В3			kg		
					B5	0		0 kg		
					V1	GJ80PP02		1110 kg		
					B3/B5	0		0 kg		
				Main T-Box	ain T-Box 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		

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.

 $<sup>\</sup>ensuremath{^{*}}$  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-HS-110/6

Type : GHB280M

Full Load Torque : 90.4 Kg.m

Motor moment of Inertia (J) : 4.943 Kg.m²

Load moment of Inertia (J) : 204.975 Kg.m²

110 <b>kW</b>	6	Р	60 <b>Hz</b>		
Speed at Full Load:			1185	RPM	
Rated Voltage		380V			
Full Load Current	176.7A	204.6A	353.3A		







