

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.			Rev. No. [0]			
Project Name		Project No.			Quanti	ity se	ets	
GENERAL SPECIFICATION			PERFORMANCE DATA					
Frame Size	e	225S	Rated Ou	tput	45	kW	60 HP	
Туре		HS-45/6	Number of	of Poles		6		
Enclosure(Protection)		Explosion Proof (IP55)	Rotor Typ	pe	Squirrel Cag	je		
Method of	Cooling	IC411(FC)	Starting Method*		D.O.L	☐ Y-	- Δ	
Rated Free	quency	60 Hz	Rated Vo		440 V			
Number of	<u> </u>	3		Full Load	75.6 A	87.5 A	151.1 A	
Insulation	Class	■ F □ B □ H		Locked-rotor**				
Temp. Ris	e at full load (by resistance method)	Efficiency					
	1.0 S.F	80 deg. C	1	50% Load	93.3	%		
Motor Loc	ation	■ Indoor □ Outdoor		75% Load	93.7	%		
Altitude		Less than 1000 meter		100% Load	93.6			
Relative H	lumidity	Less than 80 %	Power Fa					
Ambient Temp.		40 deg. C (Max.)		50% Load	0.750)		
Duty Type		Continuous (S1)		75% Load	0.825			
Service Fa		1.00		100% Load	0.835			
Mounting		■ B3 □ B5 □ V1 □ B3/B5	Speed at 1			r.p.m		
Wiounting	Type	Anti-Friction	Torque	un Load	1103	1.p.m		
Bearing	DE/N-DE	6314C3 / 6213C3	Torque	Full Load	37.0	kg⋅m		
Dearing	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor**				
External T		,		Breakdown**	230			
		Not applicable ■ Direct □ V-Belt	Moment	of Inertia (J)	230	70		
Coupling N			Wioment (Load(Max.)	101.050	1ra m2		
Shaft Exte				Motor	101.050	kg·m²		
Terminal	Main	☐ Steel ☐ Cast Iron	C 1D				<u> </u>	
Box	Aux.	☐ Yes ■ No	Sound Pro	essure Level (No			from motor)	
A 11 .1	Location	Refer to Outline Drawing	X 7'1			dB(A)		
Applicatio		**	Vibration			mm/sec (r.m	i.S)	
Area classification		Hazardous	-	ole number of		times		
Type of Ex-Protection		Ex d II T4	consecuti			times		
Applicable		KS,IEC	Paint	Munsell No.	4.0PB5.4/5.5			
ACCESSO	DRIES				TAL DRAWING			
			Outline D	imension Drawi		Motor Weig		
				B3	GJ2SAP02		505 kg	
				B5	0		0 kg	
				V1			kg	
				B3/B5	0		0 kg	
			Main T-Bo	ox Ass'y	3M-036961			
SPARE PARTS			REMARK		High Efficiency			
			Date	DSND	CHKD	CHKD	APPD	
			2010-05-2	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.

 $[\]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-45/6

Type : GHB225M

Full Load Torque : 37.0 Kg.m

Motor moment of Inertia (J) : 1.555 Kg.m²

Load moment of Inertia (J) : 101.050 Kg.m²

45 kW	6 P		60 Hz		
Speed at Full Load:			1185	RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	75.6A	87.5A	151.1A		







