HIGEN INDUCTION MOTOR DATA SHEET

5 HP - 6 P

MODEL: KMI-05HK8	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.		132S
ENCLOSURE	☐	DRIP PROOF
	☑	TOTALLY ENCLOSED
	☐	Increased Safety Exp.-proof
PROTECTION		IP 44
METHODS OF COOLING	☐ SC ☑ FC ☐	
FREQUENCY		60 Hz
PHASE		3 PHASE
SERVICE FACTOR		1.15
INSULATION CLASS		F CLASS
TEMP. RISE AT FULL LOAD (at S.F 1.0)		
RES. METHOD		105 ℃
THERMO. METHOD		℃
LOCATION	☑ INDOOR ☐ OUTDOOR	
ALTITUDE		1000 m
HUMIDITY		80 %
AMBIENT TEMPERATURE		-10~40 ℃
RATING	☑ CONT. ☐ %ED	
NEMA DESIGN		B
MOUNTING	☑ B3 ☐ B5 ☐ V1 ☐ B3B5	
BEARING TYPE		BALL
BEARING DE\N-DE		6208ZZ / 6206ZZ
BEARING LUBRICANT		GREASE
COUPLING METHOD	☑ DIRECT ☐ V-BELT	
SHAFT		
EXTENSION		SINGLE
EXTERNAL THRUST		
TERMINAL BOX		
MAIN	☑ STEEL ☐ AL ☐ CAST	
AUX.	☐ YES ☑ NO	
BOX LOCATION		LEFT (Viewed from Drive end)
APPLICATION STANDARDS		KS.IEC

PERFORMANCE DATA

OUTPUT	3.7	kW	5	HP	
POLES	6	POLES			
ROTOR TYPE	SQUIRREL CAGE				
STARTING METHOD	☑ D.O.L ☐ Y-△				
	☐ REACTOR (%TAP) ☐ V.V.V.F				
	☐ SOFT-STARTER				
RATED VOLTAGE	220 V		380 V		V
CURRENT					
NO LOAD	7.9 A		4.6 A		A
FULL LOAD	15.4 A		8.9 A		A
STARTING	100.3 A		57.9 A		A
EFFICIENCY					
AT 1/2 LOAD		%			
AT 3/4 LOAD		%			
AT FULL LOAD	85.0	%			
POWER FACTOR					
AT 1/2 LOAD		%			
AT 3/4 LOAD		%			
AT FULL LOAD	74.0	%			
SPEED (AT FULL LOAD)	1120	rpm			
TORQUE					
FULL LOAD	3.2	kg-m	100%		
LOCKED ROTOR	5.8	kg-m	180%		
BREAKDOWN	6.4	kg-m	200%		
NOISE LEVEL	65.0	dB(A)			
VIBRATION	30.0	㎛			
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT					
(AT DIRECT ON-LINE)	42.9	kg-m²			
Motor GD²	0.1530	kg-m²			
MOTOR APPROX. WEIGHT	64.0	kg			
PAINTING MUNSELL NO.	7.1 B 4.0/0.9				
PAINTING THICKNESS	☑ STANDARD ☐	㎛			

ACCESSORIES (OPTIONAL)

TEMPERATURE DETECTOR	
WINDING	NO
TYPE	
BEARING	NO
TYPE	
SPACE HEATER	NO
RATING	

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-H-132S-CA
S-T CURVE	ST-KMI-05HK8
TERMINAL BOX DIMENSION	TB-3M95037

NOTE

1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH OTIS STANDARD.

REMARKS

1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.

FC : FAN COOLED SC : SELF COOLED

DATE	PREPARED	CHECKED	APPROVED
2005-10-28	J.S.PARK	J.S.PARK	H.T.KIM