HIGEN INDUCTION MOTOR DATA SHEET

2 HP - 4 P

MODEL: KMI-02HK1F	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.		FF165
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		B CLASS
TEMP. RISE AT FULL LOAD (at S.F 1.0)		
RES. METHOD		80 °C
THERMO. METHOD		°C
LOCATION	☑ INDOOR ☐ OUTDOOR	
ALTITUDE		1000 m
HUMIDITY		90 %
AMBIENT TEMPERATURE		-10~40 °C
RATING	☑ CONT. ☐ %ED	
NEMA DESIGN		B
MOUNTING	☐ B3 ☐ B5 ☑ V1 ☐ B3B5	
BEARING TYPE		BALL
BEARING DE\N-DE		6205ZZ/6204ZZ
BEARING LUBRICANT		-
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	1.5 kW	2 HP		
POLES	4 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	A	A	A	
FULL LOAD	6.47 A	3.74 A	A	
STARTING	40.76 A	23.54 A	A	
EFFICIENCY				
AT 1/2 LOAD	%			
AT 3/4 LOAD	%			
AT FULL LOAD	78.0 %			
POWER FACTOR				
AT 1/2 LOAD	%			
AT 3/4 LOAD	%			
AT FULL LOAD	78.0 %			
SPEED (AT FULL LOAD)	1720 rpm			
TORQUE				
FULL LOAD	0.85 kg-m	100%		
LOCKED ROTOR	1.61 kg-m	190%		
BREAKDOWN	1.70 kg-m	200%		
NOISE LEVEL	67.0 dB(A)			
VIBRATION	30.0 μm			
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)	6.0 $kg\text{-}m^2$			
Motor GD²	0.01740 $kg\text{-}m^2$			
MOTOR APPROX. WEIGHT	25.6 kg			
PAINTING MUNSELL NO.	7.1 B 4.0/0.9			
PAINTING THICKNESS	☑ STANDARD ☐	μm		

ACCESSORIES (OPTIONAL)

TEMPERATURE DETECTOR	
WINDING	
TYPE	
BEARING	
TYPE	
SPACE HEATER	
RATING	

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	
Main terminal box	
Aux. Terminal box	

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-LG STANDARD.

REMARKS

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

TE : TOTALLY ENCLOSED DP : DRIP PROOF
FC : FAN COOLED SC : SELF COOLED

DATE	PREPARED	CHECKED	APPROVED
2005-09-09	H.Y.WOO	H.J.KIM	H.T.KIM