HIGEN INDUCTION MOTOR DATA SHEET

10 HP - 4 P

MODEL: KMB-10HK1F	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.	KMB-10HK1F	
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	7.5 kW	10 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	13.9 A	8.0 A	A	
FULL LOAD	27.8 A	16.0 A	A	
STARTING	180.4 A	104.2 A	A	
EFFICIENCY				
AT 1/2 LOAD	%			
AT 3/4 LOAD	%			
AT FULL LOAD	87.0 %			
POWER FACTOR				
AT 1/2 LOAD	%			
AT 3/4 LOAD	%			
AT FULL LOAD	81.5 %			
SPEED (AT FULL LOAD)	1755 rpm			
TORQUE				
FULL LOAD	4.2 kg-m	100%		
LOCKED ROTOR	7.5 kg-m	180%		
BREAKDOWN	9.2 kg-m	220%		
NOISE LEVEL	77.0 dB(A)			
VIBRATION	30.0 ㎛			
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)	29.3 $kg\text{-}m^2$			
Motor GD²	0.1434 $kg\text{-}m^2$			
MOTOR APPROX. WEIGHT	53.0 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

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
2006-09-20	J.H JO	J.S.PARK	H.T.KIM