HIGEN INDUCTION MOTOR DATA SHEET

2.2 kW - 4 P

MODEL: KMA-03HN1	CUSTOMER :	REV. NO :
APPLICATION:	PROJECT NAME:	QUANTITY :

GENERAL DATA

FRAME NO.		112S
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		85 °C
THERMO. METHOD		°C
LOCATION	☑ INDOOR ☐ OUTDOOR	
ALTITUDE		1000 m
HUMIDITY		80 %
AMBIENT TEMPERATURE		-10~40 °C
RATING	☑ CONT. ☐ %ED	
NEMA DESIGN		B
MOUNTING	☑ B3 ☐ B5 ☐ V1 ☐ B3B5	
BEARING TYPE		BALL
BEARING DE\N-DE		6206ZZ/6205ZZ
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		IEC, KS

PERFORMANCE DATA

OUTPUT		2.2		kW
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	440 V	V
CURRENT				
NO LOAD		A	A	A
FULL LOAD		8.8 A	4.4 A	A
STARTING		59.0 A	29.5 A	A
EFFICIENCY				
AT 1/2 LOAD		%		
AT 3/4 LOAD		%		
AT FULL LOAD		83.0 %		
POWER FACTOR				
AT 1/2 LOAD		%		
AT 3/4 LOAD		%		
AT FULL LOAD		77.0 %		
SPEED (AT FULL LOAD)		1740 rpm		
TORQUE				
FULL LOAD		1.22 kg-m		100%
LOCKED ROTOR		2.20 kg-m		180%
BREAKDOWN		2.44 kg-m		200%
NOISE LEVEL		68.0 dB(A)		
VIBRATION		15.0 μm		
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)		12.0 $kg\text{-}m^2$		
Motor GD²		0.0351 $kg\text{-}m^2$		
MOTOR APPROX. WEIGHT		18.0 kg		
PAINTING	MUNSELL NO.	BLACK		
	THICKNESS	☑ STANDARD ☐		μm

ACCESSORIES (OPTIONAL)

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
2008-04-15	M.S.PARK	J.H.JO	H.J.KIM

A4(210X297)