HIGEN INDUCTION MOTOR DATA SHEET

3.7 kW - 4 P

MODEL: KMI-05HT1F	CUSTOMER :	REV. NO :
APPLICATION:	PROJECT NAME:	QUANTITY :

GENERAL DATA

FRAME NO.		FF215
ENCLOSURE	☐	DRIP PROOF
	☑	TOTALLY ENCLOSED
	☐	Increased Safety Exp.-proof
PROTECTION		IP 44
METHODS OF COOLING		☐ SC ☑ FC ☐
FREQUENCY		50 Hz
PHASE		3 PHASE
SERVICE FACTOR		1.0
INSULATION CLASS		F CLASS
TEMP. RISE AT FULL LOAD (at S.F 1.0)		
RES. METHOD		105 °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
	DE\N-DE	6207ZZ/6205ZZ
	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		3.7		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	380 V	V
CURRENT				
	NO LOAD	A	A	A
	FULL LOAD	13.9 A	8.0 A	A
	STARTING	117.0 A	67.5 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	84.0 %		
SPEED (AT FULL LOAD)		1450 rpm		
TORQUE				
	FULL LOAD	2.5 kg-m		100%
	LOCKED ROTOR	4.2 kg-m		170%
	BREAKDOWN	5.0 kg-m		200%
NOISE LEVEL		72.0 dB(A)		
VIBRATION		30.0 μm		
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)		15.3 $kg\text{-}m^2$		
Motor GD²		0.0600 $kg\text{-}m^2$		
MOTOR APPROX. WEIGHT		48.0 kg		
PAINTING	MUNSELL NO.	7.1B 4.0/0.9		
	THICKNESS	☑ STANDARD ☐		μm

ACCESSORIES (OPTIONAL)

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-KMI-05HT1F
SPEED-TORQUE CURVE	ST-KMI-05HT1F

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
2007.07.23	H.G.HAN	H.K.KIM	H.J.KIM