HIGEN — INDUCTION MOTOR DATA SHEET — 5 HP - 4 P

MODEL: KMI-05HY1F	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.		FF215
ENCLOSURE	☐	DRIP PROOF
	☑	TOTALLY ENCLOSED
	☐	Increased Safety Exp.-proof
PROTECTION		IP 44
METHODS OF COOLING		☐ SC ☑ FC ☐
PHASE		3 PHASE
SERVICE FACTOR		1.0
INSULATION CLASS		F CLASS
TEMP. RISE AT FULL LOAD (at S.F 1.0)		
RES. METHOD		100 °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
	DE\N-DE	6207ZZ/6205ZZ
	LUBRICANT	
COUPLING METHOD		☑ DIRECT ☐ V-BELT
ROTATION(Facing Drive End)		☑ CW ☑ CCW
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	5	HP
POLES		4 POLES		
ROTOR TYPE		SQUIRREL CAGE		
STARTING METHOD		☑ D.O.L ☐ Y-△		
		☐ REACTOR (%TAP) ☐ V.V.V.F		
		☐ SOFT-STARTER		
RATED VOLTAGE		460 V	- V	- V
FREQUENCY		60 Hz		
CURRENT				
	NO LOAD	- A	- A	- A
	FULL LOAD	6.5 A	- A	- A
	STARTING	48.5 A	- A	- A
EFFICIENCY				
	AT 1/2 LOAD	%		
	AT 3/4 LOAD	%		
	AT FULL LOAD	84.5 %		
POWER FACTOR				
	AT 1/2 LOAD	%		
	AT 3/4 LOAD	%		
	AT FULL LOAD	85.0 %		
SPEED (AT FULL LOAD)		1750 rpm		
TORQUE				
	FULL LOAD	2.1 kg-m	100%	
	LOCKED ROTOR	3.5 kg-m	170%	
	BREAKDOWN	4.1 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		44.0 kg		
PAINTING	MUNSELL NO.	7.1B 4.0/0.9		
	THICKNESS	☑ STANDARD ☐ μm		

ACCESSORIES (OPTIONAL)

TEMPERATURE DETECTOR	
WINDING	
TYPE	
BEARING	
TYPE	
SPACE HEATER	
RATING	

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-KMI-05HY1F
SPEED VS TORQUE, CURRENT CURVE	ST-KMI-05HY1F

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.

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

DATE	PREPARED	CHECKED	APPROVED
2006.06.21	H.G.HAN	H.J.KIM	H.T.KIM