HIGEN INDUCTION MOTOR DATA SHEET

2.2 kW - 4 P

MODEL: I03HK1FNAT	CUSTOMER :	REV. NO :
APPLICATION:	PROJECT NAME:	QUANTITY :

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	1.0	
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	
BEARING DE\N-DE	6207ZZ/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	RIGHT (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	380 V	V
CURRENT				
	NO LOAD	A	A	A
	FULL LOAD	8.8 A	5.1 A	A
	STARTING	59.0 A	34.2 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	79.0 %		
SPEED (AT FULL LOAD)		1740 rpm		
TORQUE				
	FULL LOAD	1.2 kg-m		100%
	LOCKED ROTOR	2.2 kg-m		180%
	BREAKDOWN	2.5 kg-m		200%
NOISE LEVEL		68.0 dB(A)		
VIBRATION		30.0 μm		
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)		12.0 $kg\text{-}m^2$		
Motor GD^2		0.0351 $kg\text{-}m^2$		
MOTOR APPROX. WEIGHT		37.0 kg		
PAINTING	MUNSELL NO.	7.1B 4.0/0.9		
	THICKNESS	☑ STANDARD ☐		μm

ACCESSORIES (OPTIONAL)

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-I03HK1FNAT
SPEED-TORQUE CURVE	ST-I03HK1FNAT
TERMINAL BOX DIMENSION	TB-I03HK1FNAT

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
2007.08.13	H.G.HAN	H.K.KIM	H.J.KIM