INDUCTION MOTOR DATA SHEET

HIGEN

1 HP - 6 P

MODEL: I01HK8FAOF	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.		90L
ENCLOSURE	☐	DRIP PROOF
	☑	TOTALLY ENCLOSED
	☐	Increased Safety Exp.-proof
PROTECTION		IP 54
METHODS OF COOLING	☐ SC ☐ FC ☑ AO	
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
BEARING DE\N-DE		6205ZZ/6204ZZ
BEARING 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	0.75 kW	1 HP		
POLES	6 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	
FREQUENCY	60 Hz			
CURRENT				
NO LOAD	- A	- A	- A	
FULL LOAD	4.2 A	2.4 A	- A	
STARTING	20.2 A	11.7 A	- A	
EFFICIENCY				
AT 1/2 LOAD	%			
AT 3/4 LOAD	%			
AT FULL LOAD	70.5 %			
POWER FACTOR				
AT 1/2 LOAD	%			
AT 3/4 LOAD	%			
AT FULL LOAD	66.5 %			
SPEED (AT FULL LOAD)	1150 rpm			
TORQUE				
FULL LOAD	0.6 kg-m	100%		
LOCKED ROTOR	1.1 kg-m	170%		
BREAKDOWN	1.1 kg-m	180%		
NOISE LEVEL	61.0 dB(A)			
VIBRATION	30.0 μm			
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)	16.4 $kg\text{-}m^2$			
Motor GD²	0.0170 $kg\text{-}m^2$			
MOTOR APPROX. WEIGHT	20.0 kg			
PAINTING MUNSELL NO.	7.1B 4.0/0.9			
PAINTING THICKNESS	☑ STANDARD ☐ μm			

ACCESSORIES (OPTIONAL)

TEMPERATURE DETECTOR	
WINDING	
TYPE	
BEARING	
TYPE	
SPACE HEATER	
RATING	

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-I01HK8FAOF
SPEED VS TORQUE, CURRENT CURVE	ST-I01HK8FAOF

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
2006.06.27	H.G.HAN	H.J.KIM	H.T.KIM