

HIGEN		INDUCTION MOTOR DATA SHEET		1 HP - 4 P	
MODEL: KMI-01HK1F		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		FF165		OUTPUT 0.75 kW 1 HP	
ENCLOSURE	☐ DRIP PROOF		POLES 4 POLES		
	☒ TOTALLY ENCLOSED		ROTOR TYPE SQUIRREL CAGE		
	☐ Increased Safety Exp.-proof		☒ D.O.L ☐ Y-△ ☐ REACTOR (%TAP) ☐ V.V.V.F ☐ SOFT-STARTER		
PROTECTION IP 44		STARTING METHOD			
METHODS OF COOLING ☐ SC ☒ FC ☐					
FREQUENCY 60 Hz		RATED VOLTAGE 220 V 380 V V			
PHASE 3 PHASE		CURRENT			
SERVICE FACTOR 1.15		NO LOAD		A	A A
INSULATION CLASS B CLASS		FULL LOAD		3.55 A	2.05 A A
TEMP. RISE AT FULL LOAD (at S.F 1.0)		STARTING		18.80 A	10.85 A A
RES. METHOD 80 °C		EFFICIENCY			
THERMO. METHOD °C		AT 1/2 LOAD %			
LOCATION ☒ INDOOR ☐ OUTDOOR		AT 3/4 LOAD %			
ALTITUDE 1000 m		AT FULL LOAD 74.0 %			
HUMIDITY 90 %		POWER FACTOR			
AMBIENT TEMPERATURE -10~40 °C		AT 1/2 LOAD %			
RATING ☒ CONT. ☐ %ED		AT 3/4 LOAD %			
NEMA DESIGN B		AT FULL LOAD 75.0 %			
MOUNTING ☐ B3 ☐ B5 ☒ V1 ☐ B3B5		SPEED (AT FULL LOAD)		1710 rpm	
BEARING	TYPE BALL		TORQUE		
	DEIN-DE 6204ZZ/6203ZZ		FULL LOAD 0.43 kg-m 100%		
	LUBRICANT -		LOCKED ROTOR 0.81 kg-m 190%		
COUPLING METHOD ☒ DIRECT ☐ V-BELT		BREAKDOWN		0.85 kg-m 200%	
SHAFT		NOISE LEVEL 63.0 dB(A)			
EXTENSION SINGLE		VIBRATION 30.0 μm			
EXTERNAL THRUST		ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT			
TERMINAL BOX		(AT DIRECT ON-LINE)		3.6 kg-m ²	
MAIN ☒ STEEL ☐ AL ☐ CAST		Motor GD ²		0.00920 kg-m ²	
AUX. ☐ YES ☒ NO		MOTOR APPROX. WEIGHT		16.0 kg	
BOX LOCATION LEFT (Viewed from Drive end)		PAINTING		MUNSELL NO. 7.1 B 4.0/0.9	
APPLICATION STANDARDS KS.IEC		THICKNESS		☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION		
WINDING			Main terminal box		
TYPE			Aux. Terminal box		
BEARING					
TYPE					
SPACE HEATER					
RATING					
NOTE			REMARKS		
1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.			1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.		
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH OTIS-LG STANDARD.					
TE : TOTALLY ENCLOSED DP : DRIP PROOF			DATE	PREPARED	CHECKED
FC : FAN COOLED SC : SELF COOLED			2005-09-09	H.Y.WOO	H.J.KIM
					APPROVED H.T.KIM