

HIGEN		INDUCTION MOTOR DATA SHEET		2 HP - 4 P	
MODEL: I02HY1FFSH		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		90L		OUTPUT 1.5 kW 2 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 ☐					
PHASE 3 PHASE		RATED VOLTAGE 460 V - V - V			
SERVICE FACTOR 1.0		FREQUENCY 60 Hz			
INSULATION CLASS F CLASS		CURRENT			
TEMP. RISE AT FULL LOAD (at S.F 1.0)		NO LOAD - A - A - A			
RES. METHOD 80 °C		FULL LOAD 2.8 A - A - A			
THERMO. METHOD °C		STARTING 18.1 A - A - A			
LOCATION ☒ INDOOR ☐ OUTDOOR		EFFICIENCY			
ALTITUDE 1000 m		AT 1/2 LOAD %			
HUMIDITY 90 %		AT 3/4 LOAD %			
AMBIENT TEMPERATURE -10~40 °C		AT FULL LOAD 80.5 %			
RATING ☒ CONT. ☐ %ED		POWER FACTOR			
NEMA DESIGN B		AT 1/2 LOAD %			
MOUNTING ☒ B3 ☐ B5 ☐ V1 ☐ B3B5		AT 3/4 LOAD %			
BEARING	TYPE BALL		AT FULL LOAD 84.0 %		
	DEIN-DE 6205ZZ/6204ZZ		SPEED (AT FULL LOAD) 1730 rpm		
	LUBRICANT		TORQUE		
COUPLING METHOD ☒ DIRECT ☐ V-BELT		FULL LOAD 0.8 kg-m 100%			
ROTATION(Facing Drive End) ☒ CW ☒ CCW		LOCKED ROTOR 2.2 kg-m 260%			
SHAFT		BREAKDOWN 2.4 kg-m 290%			
EXTENSION SINGLE		NOISE LEVEL 67.0 dB(A)			
EXTERNAL THRUST		VIBRATION 15.0 μm			
TERMINAL BOX		ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT			
MAIN ☒ STEEL ☐ AL ☐ CAST		(AT DIRECT ON-LINE) 6.0 kg-m ²			
AUX. ☐ YES ☒ NO		Motor GD ² 0.0174 kg-m ²			
BOX LOCATION LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT 23.0 kg			
APPLICATION STANDARDS IEC, KS		PAINTING MUNSSELL NO. 7.1B 4.0/0.9			
		THICKNESS ☒ STANDARD ☐ μm			
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION		DW-I02HY1FFSH
WINDING			SPEED VS TORQUE, CURRENT CURVE		ST-I02HY1FFSH
TYPE					
BEARING					
TYPE					
SPACE HEATER YES					
RATING 1Φ, 11/6W, 240/120V					
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 STANDARD.					
TE : TOTALLY ENCLOSED DP : DRIP PROOF			DATE	PREPARED	CHECKED
FC : FAN COOLED SC : SELF COOLED			2006.11.22	H.G.HAN	H.J.KIM
					APPROVED
					H.T.KIM