

HIGEN		INDUCTION MOTOR DATA SHEET		5 HP - 4 P	
MODEL: I05HY1FFSH		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		112M		OUTPUT 3.7 kW 5 HP	
ENCLOSURE		☐ DRIP PROOF		POLES 4 POLES	
		☒ TOTALLY ENCLOSED		ROTOR TYPE SQUIRREL CAGE	
		☐ Increased Safety Exp.-proof		☒ D.O.L ☐ Y-	
PROTECTION		IP 44		☐ REACTOR (%TAP) ☐ V.V.V.F	
METHODS OF COOLING		☐ SC ☒ FC ☐		☐ SOFT-STARTER	
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		FULL LOAD 6.0 A - A - A	
THERMO. METHOD				STARTING 40.0 A - A - A	
LOCATION		☒ INDOOR ☐ OUTDOOR		EFFICIENCY	
ALTITUDE		1000 m		AT 1/2 LOAD %	
HUMIDITY		90 %		AT 3/4 LOAD %	
AMBIENT TEMPERATURE		-10-40		AT FULL LOAD 85.5 %	
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 90.0 %	
		DEIN-DE 6206ZZ/6205ZZ		SPEED (AT FULL LOAD) 1730 rpm	
		LUBRICANT		TORQUE	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		FULL LOAD 2.1 kg-m 100%	
ROTATION(Facing Drive End)		☒ CW ☒ CCW		LOCKED ROTOR 4.8 kg-m 230%	
SHAFT				BREAKDOWN 5.2 kg-m 250%	
EXTENSION		SINGLE		NOISE LEVEL 72.0 dB(A)	
EXTERNAL THRUST				VIBRATION 15.0 μ m	
TERMINAL BOX				ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT	
MAIN		☒ STEEL ☐ AL ☐ CAST		(AT DIRECT ON-LINE) 15.3 kg-m ²	
AUX.		☐ YES ☒ NO		Motor GD ² 0.0600 kg-m ²	
BOX LOCATION		LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT 42.0 kg	
APPLICATION STANDARDS		IEC, KS		PAINTING	
				MUNSELL NO. 7.1B 4.0/0.9	
				THICKNESS ☒ STANDARD ☐ μ m	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION		DW-I05HY1FFSH
WINDING			SPEED VS TORQUE, CURRENT CURVE		ST-I05HY1FFSH
TYPE					
BEARING					
TYPE					
SPACE HEATER			YES		
RATING			1 Φ , 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
FC : FAN COOLED		SC : SELF COOLED		2006.11.22	H.G.HAN
				CHECKED	APPROVED
				H.J.KIM	H.T.KIM