

HIGEN		INDUCTION MOTOR DATA SHEET		3.7 KW - 4 P	
MODEL: I05HE1IV		CUSTOMER :		REV. NO :	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		112M		OUTPUT 3.7 kW	
ENCLOSURE		<input type="checkbox"/> DRIP PROOF		POLES 4 POLES	
		<input checked="" type="checkbox"/> TOTALLY ENCLOSED		ROTOR TYPE SQUIRREL CAGE	
		<input type="checkbox"/> Increased Safety Exp.-proof		<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-	
PROTECTION		IP 44		STARTING METHOD	
METHODS OF COOLING		<input type="checkbox"/> SC <input checked="" type="checkbox"/> FC <input type="checkbox"/>		<input type="checkbox"/> REACTOR (%TAP) <input checked="" type="checkbox"/> V.V.V.F	
PHASE		3 PHASE		<input type="checkbox"/> VECTOR DRIVE	
SERVICE FACTOR		1.0		RATED VOLTAGE 415 V V V	
INSULATION CLASS		F CLASS		FREQUENCY 30-50 Hz	
TEMP. RISE AT FULL LOAD (at S.F 1.0)		CURRENT (50Hz)			
RES. METHOD		105		NO LOAD A A A	
THERMO. METHOD				FULL LOAD 7.2 A A A	
LOCATION		<input checked="" type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR		STARTING 51.0 A A A	
ALTITUDE		1000 m		EFFICIENCY (50Hz)	
HUMIDITY		80 %		AT 1/2 LOAD %	
AMBIENT TEMPERATURE		-10-50		AT 3/4 LOAD %	
RATING		<input checked="" type="checkbox"/> CONT. <input type="checkbox"/> %ED		AT FULL LOAD 84.0 %	
NEMA DESIGN		B		POWER FACTOR (50Hz)	
MOUNTING		<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3B5		AT 1/2 LOAD %	
BEARING		TYPE BALL		AT 3/4 LOAD %	
		DEW-DE 6206ZZ/6205ZZ		AT FULL LOAD 78.0 %	
		LUBRICANT GREASE		SPEED (AT FULL LOAD) 1430 rpm	
COUPLING METHOD		<input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT		TORQUE(50Hz)	
ROTATION(Facing Drive End)		<input checked="" type="checkbox"/> CW <input checked="" type="checkbox"/> CCW		FULL LOAD 2.5 kg-m 100%	
SHAFT				LOCKED ROTOR 4.3 kg-m 170%	
EXTENSION		SINGLE		BREAKDOWN 5.0 kg-m 200%	
EXTERNAL THRUST				NOISE LEVEL 72 dB(A)	
TERMINAL BOX		VIBRATION 30.0 μ m			
MAIN		<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> AL <input type="checkbox"/> CAST		ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT	
AUX.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		(AT DIRECT ON-LINE) 15.3 kg-m ²	
BOX LOCATION		LEFT (Viewed from Drive end)		Motor GD ² 0.0600 kg-m ²	
APPLICATION STANDARDS		KS.IEC		MOTOR APPROX. WEIGHT 42 kg	
				PAINTING	
				MUNSELL NO. GRAY	
				THICKNESS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> μ m	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
NOTE			REMARKS		
1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE			1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.		
GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.					
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE					
IN ACCORDANCE WITH HIGEN STANDARD.					
TE : TOTALLY ENCLOSED DP : DRIP PROOF		DATE		PREPARED	CHECKED
FC : FAN COOLED SC : SELF COOLED		2009-02-05		A.R.LEE	J.H.JO
					APPROVED
					H.J.KIM