

HIGEN		INDUCTION MOTOR DATA SHEET		17.4 HP - 4 P	
MODEL: I13KV1FYH1		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		160M		OUTPUT 13 kW 17.4 HP	
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		STARTING METHOD <input type="checkbox"/> D.O.L <input checked="" type="checkbox"/> Y- <input type="checkbox"/> REACTOR ( %TAP) <input type="checkbox"/> V.V.V.F		
PROTECTION	IP 55		SOFT-STARTER <input type="checkbox"/>		
METHODS OF COOLING	<input type="checkbox"/> SC <input checked="" type="checkbox"/> FC <input type="checkbox"/>		RATED VOLTAGE 440 V V		
FREQUENCY	60 Hz		CURRENT		
PHASE	3 PHASE		NO LOAD 7.0 A A		
SERVICE FACTOR	1.0		FULL LOAD 22.8 A A		
INSULATION CLASS	F CLASS		STARTING 139.1 A A		
TEMP. RISE AT FULL LOAD (at S.F 1.0)			EFFICIENCY		
RES. METHOD		95		AT 1/2 LOAD - %	
THERMO. METHOD				AT 3/4 LOAD - %	
LOCATION	<input checked="" type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR		AT FULL LOAD 88.0 %		
ALTITUDE	1000 m		POWER FACTOR		
HUMIDITY	90 %		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 85.0 %		
NEMA DESIGN	B		SPEED (AT FULL LOAD) 1755 rpm		
MOUNTING	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input checked="" type="checkbox"/> B3B5		TORQUE		
BEARING	TYPE	BALL		FULL LOAD 7.2 kg-m 100%	
	DEW-DE	6309ZZ/6307ZZ		LOCKED ROTOR 10.8 kg-m 150%	
	LUBRICANT	GREASE		BREAKDOWN 13.3 kg-m 185%	
COUPLING METHOD	<input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT		NOISE LEVEL 78.0 dB(A)		
ROTATION(Facing Drive End)	<input checked="" type="checkbox"/> CW <input checked="" type="checkbox"/> CCW		VIBRATION 30.0 μm		
SHAFT			ALLOWABLE LOAD GD <sup>2</sup> REFERRED TO MOTOR SHAFT		
EXTENSION		SINGLE		(AT DIRECT ON-LINE) 37.8 kg-m <sup>2</sup>	
EXTERNAL THRUST				Motor GD <sup>2</sup> 0.2869 kg-m <sup>2</sup>	
TERMINAL BOX			MOTOR APPROX. WEIGHT 120 kg		
MAIN		<input type="checkbox"/> STEEL <input type="checkbox"/> AL <input checked="" type="checkbox"/> CAST		PAINTING	
AUX.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		MUNSELL NO.	
BOX LOCATION		RIGHT (Viewed from Drive end)		THICKNESS <input type="checkbox"/> STANDARD <input type="checkbox"/> μm	
APPLICATION STANDARDS			KS.IEC		
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
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	APPROVED
FC : FAN COOLED SC : SELF COOLED		2006-12-21	B.K.KIM	J.S.PARK	H.T.KIM