

HIGEN		INDUCTION MOTOR DATA SHEET		7.5 kW - 4 P	
MODEL: I10HV1GH1		CUSTOMER :		REV. NO :	
APPLICATION:		PROJECT NAME:		QUANTITY :	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		132M		OUTPUT 7.5 kW	
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 54		STARTING METHOD		
METHODS OF COOLING	☐ SC ☒ FC ☐ AO				
FREQUENCY	60 Hz		RATED VOLTAGE 440 V V V		
PHASE	3 PHASE		CURRENT		
SERVICE FACTOR	1.0		NO LOAD A A A		
INSULATION CLASS	F CLASS		FULL LOAD 12.8 A A A		
TEMP. RISE AT FULL LOAD (at S.F 1.0)			STARTING 83.1 A A A		
RES. METHOD		105 °C		EFFICIENCY	
THERMO. METHOD		°C		AT 1/2 LOAD %	
LOCATION	☒ INDOOR ☐ OUTDOOR		AT 3/4 LOAD %		
ALTITUDE	1000 m		AT FULL LOAD 89.0 %		
HUMIDITY	80 %		POWER FACTOR		
AMBIENT TEMPERATURE	-10~40 °C		AT 1/2 LOAD %		
RATING	☒ CONT. ☐ %ED		AT 3/4 LOAD %		
NEMA DESIGN	B		AT FULL LOAD 86.5 %		
MOUNTING	☒ B3 ☐ B5 ☐ V1 ☐ B3B5		SPEED (AT FULL LOAD) 1750 rpm		
BEARING	TYPE	BALL		TORQUE	
	DEIN-DE	6208ZZ/6206ZZ		FULL LOAD 4.17 kg-m 100%	
	LUBRICANT	GREASE		LOCKED ROTOR 6.68 kg-m 160%	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		BREAKDOWN 8.35 kg-m 200%	
SHAFT			NOISE LEVEL 77.0 dB(A)		
EXTENSION		SINGLE		VIBRATION 15.0 μm	
EXTERNAL THRUST					
TERMINAL BOX			ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT (AT DIRECT ON-LINE) 29.3 kg-m ²		
MAIN		☐ STEEL ☐ AL ☒ CAST		Motor GD ² 0.1434 kg-m ²	
AUX.		☐ YES ☒ NO		MOTOR APPROX. WEIGHT 70.0 kg	
BOX LOCATION		LEFT		PAINTING MUNSSELL NO. 7.1 B 4.0/0.9	
APPLICATION STANDARDS		IEC, KS		THICKNESS ☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
NOTE			REMARKS		
1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLLERANCE OF APPLICATION STANDARDS.			1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.		
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH HIGEN STANDARD.					
FC : FAN COOLED SC : SELF COOLED		DATE		PREPARED	CHECKED
AO : AIR OVER		2008.08.01		S.M.KIM	J.H.JO
				APPROVED	H.J.KIM