

HIGEN		INDUCTION MOTOR DATA SHEET		7.5 kW - 4 P	
MODEL: KMH-10HV1F		CUSTOMER :		REV. NO :	
APPLICATION:		PROJECT NAME:		QUANTITY :	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		FF265		OUTPUT 7.5 kW	
ENCLOSURE		☐ DRIP PROOF		POLES 4 POLES	
		☒ TOTALLY ENCLOSED		ROTOR TYPE SQUIRREL CAGE	
		☐ Increased Safety Exp.-proof		☒ D.O.L ☐ Y-△	
PROTECTION		IP 54		STARTING METHOD ☐ REACTOR (%TAP) ☐ V.V.V.F	
METHODS OF COOLING		☐ SC ☒ FC ☐ AO		☐ SOFT-STARTER	
FREQUENCY		60 Hz		RATED VOLTAGE 440 V V V	
PHASE		3 PHASE		CURRENT	
SERVICE FACTOR		1.15		NO LOAD A A A	
INSULATION CLASS		F CLASS		FULL LOAD 12.9 A A A	
TEMP. RISE AT FULL LOAD (at S.F 1.0)				STARTING 83.7 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 91.0 %	
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 84.0 %	
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				ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT	
TERMINAL BOX				(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 86.0 kg	
BOX LOCATION		LEFT		PAINTING MUNSSELL NO. 5 PB 8/2.5	
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.		2. HIGH EFFICIENCY MOTOR			
FC : FAN COOLED SC : SELF COOLED		DATE	PREPARED	CHECKED	APPROVED
AO : AIR OVER		2008.10.06	S.M.KIM	J.H.JO	H.J.KIM