

HIGEN		INDUCTION MOTOR DATA SHEET		20 HP - 4 P	
MODEL: KMH-20HU1F		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		FF300		OUTPUT 15 kW 20 HP	
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 ☐					
FREQUENCY 60 Hz		RATED VOLTAGE 380 V		V V	
PHASE 3 PHASE		CURRENT			
SERVICE FACTOR 1.15		NO LOAD		12.5 A	A A
INSULATION CLASS F CLASS		FULL LOAD		30.0 A	A A
TEMP. RISE AT FULL LOAD (at S.F 1.0)		STARTING		252.1 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 91.5 %			
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 83.0 %			
MOUNTING ☐ B3 ☒ B5 ☒ V1 ☐ B3B5		SPEED (AT FULL LOAD)		1760	rpm
BEARING	TYPE BALL		TORQUE		
	DEVN-DE 6309ZZ / 6307ZZ		FULL LOAD 8.3 kg-m 100%		
	LUBRICANT GREASE		LOCKED ROTOR 15.8 kg-m 190%		
COUPLING METHOD ☒ DIRECT ☐ V-BELT		BREAKDOWN		18.3	kg-m 220%
SHAFT		NOISE LEVEL		82.0	dB(A)
EXTENSION SINGLE		VIBRATION		30.0	μm
EXTERNAL THRUST		ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT			
TERMINAL BOX		(AT DIRECT ON-LINE)		48.0	kg-m ²
MAIN ☐ STEEL ☐ AL ☒ CAST		Motor GD ²		0.3764	kg-m ²
AUX. ☐ YES ☒ NO		MOTOR APPROX. WEIGHT		145.0	kg
BOX LOCATION LEFT (Viewed from Drive end)		PAINTING	MUNSELL NO.	5 PB 6/1.5	
APPLICATION STANDARDS KS.IEC		THICKNESS		☒ STANDARD ☐	μm
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION		DW-V-160L-CAT
WINDING NO			S-T CURVE		ST-KMH-20HU1
TYPE			TERMINAL BOX DIMENSION		TB-3040KK2003
BEARING NO					
TYPE					
SPACE HEATER NO					
RATING					
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 HIGEN STANDARD.			2. HIGH EFFICIENCY MOTOR		
FC : FAN COOLED SC : SELF COOLED			DATE	PREPARED	CHECKED
			2008-05-02	J.S.PARK	J.S.PARK
					APPROVED
					H.T.KIM