

HIGEN		INDUCTION MOTOR DATA SHEET		20 HP - 6 P	
MODEL: KMI-20HU8		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		180M		OUTPUT 15 kW 20 HP	
ENCLOSURE		☐ DRIP PROOF		POLES 6 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 44		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 13.0 A A A	
INSULATION CLASS		F CLASS		FULL LOAD 31.0 A A A	
TEMP. RISE AT FULL LOAD (at S.F 1.0)				STARTING 208.0 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 82.5 %	
MOUNTING		☒ B3 ☐ B5 ☐ V1 ☐ B3B5		SPEED (AT FULL LOAD) 1170 rpm	
BEARING		TYPE BALL		TORQUE	
		DEVN-DE 6311ZZ / 6309ZZ		FULL LOAD 12.5 kg-m 100%	
		LUBRICANT GREASE		LOCKED ROTOR 22.5 kg-m 180%	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		BREAKDOWN 25.0 kg-m 200%	
SHAFT				NOISE LEVEL 74.0 dB(A)	
EXTENSION		SINGLE		VIBRATION 30.0 μm	
EXTERNAL THRUST				ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT	
TERMINAL BOX				(AT DIRECT ON-LINE) 169.0 kg-m ²	
MAIN		☒ STEEL ☐ AL ☐ CAST		Motor GD ² 1.0462 kg-m ²	
AUX.		☐ YES ☒ NO		MOTOR APPROX. WEIGHT 166.0 kg	
BOX LOCATION		LEFT (Viewed from Drive end)		PAINTING MUNSSELL NO. 7.1 B 4.0/0.9	
APPLICATION STANDARDS		KS.IEC		THICKNESS ☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION DW-H-180M-CA		
WINDING			S-T CURVE ST-KMI-20HU8		
TYPE			TERMINAL BOX DIMENSION TB-2M95115		
BEARING					
TYPE					
SPACE HEATER					
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.					
FC : FAN COOLED SC : SELF COOLED			DATE PREPARED CHECKED APPROVED		
			2008-05-02 J.S.PARK J.S.PARK H.T.KIM		