

HIGEN		INDUCTION MOTOR DATA SHEET		40 HP - 4 P	
MODEL: KMI-40HU1		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		180L		OUTPUT 30 kW 40 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 44		STARTING METHOD			
METHODS OF COOLING ☐ SC ☒ FC ☐					
FREQUENCY 60 Hz		RATED VOLTAGE 380 V		V V V	
PHASE 3 PHASE		CURRENT			
SERVICE FACTOR 1.15		NO LOAD		22.0 A A A	
INSULATION CLASS F CLASS		FULL LOAD		60.3 A A A	
TEMP. RISE AT FULL LOAD (at S.F 1.0)		STARTING		458.6 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 83.0 %			
MOUNTING ☒ B3 ☐ B5 ☐ V1 ☐ B3B5		SPEED (AT FULL LOAD)		1760 rpm	
BEARING	TYPE BALL		TORQUE		
	DEIN-DE 6312ZZ / 6309ZZ		FULL LOAD 16.6 kg-m 100%		
	LUBRICANT GREASE		LOCKED ROTOR 29.9 kg-m 180%		
COUPLING METHOD ☒ DIRECT ☐ V-BELT		BREAKDOWN		33.2 kg-m 200%	
SHAFT		NOISE LEVEL		84.0 dB(A)	
EXTENSION SINGLE		VIBRATION		30.0 μm	
EXTERNAL THRUST		ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT			
TERMINAL BOX		(AT DIRECT ON-LINE)		97.5 kg-m²	
MAIN ☒ STEEL ☐ AL ☐ CAST		Motor GD²		0.8623 kg-m²	
AUX. ☐ YES ☒ NO		MOTOR APPROX. WEIGHT		210.0 kg	
BOX LOCATION LEFT (Viewed from Drive end)		PAINTING		MUNSELL 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-180L-CA
WINDING NO			S-T CURVE		ST-KMI-40HU1
TYPE			TERMINAL BOX DIMENSION		TB-2M95115
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.					
FC : FAN COOLED SC : SELF COOLED			DATE	PREPARED	CHECKED
			2008-05-02	J.S.PARK	J.S.PARK
					APPROVED
					H.T.KIM