

HIGEN		INDUCTION MOTOR DATA SHEET		30 HP - 4 P	
MODEL: KMI-30HR1		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		180M		OUTPUT 22 kW 30 HP	
ENCLOSURE		☐ DRIP PROOF		POLES 4 POLES	
		☒ TOTALLY ENCLOSED		ROTOR TYPE SQUIRREL CAGE	
		☐ Increased Safety Exp.-proof		☐ D.O.L ☒ Y-△	
PROTECTION		IP 44		STARTING METHOD ☐ REACTOR (%TAP) ☐ V.V.V.F	
METHODS OF COOLING		☐ SC ☒ FC ☐		☐ SOFT-STARTER	
FREQUENCY		50 Hz		RATED VOLTAGE 440 V V V	
PHASE		3 PHASE		CURRENT	
SERVICE FACTOR		1.0		NO LOAD 12.5 A A A	
INSULATION CLASS		F CLASS		FULL LOAD 36.5 A A A	
TEMP. RISE AT FULL LOAD (at S.F 1.0)				STARTING 280.0 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 90.5 %	
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 87.3 %	
MOUNTING		☒ B3 ☐ B5 ☐ V1 ☐ B3B5		SPEED (AT FULL LOAD) 1465 rpm	
BEARING		TYPE BALL		TORQUE	
		DEIN-DE 6311ZZ / 6309ZZ		FULL LOAD 14.6 kg-m 100%	
		LUBRICANT GREASE		LOCKED ROTOR 26.3 kg-m 180%	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		BREAKDOWN 29.2 kg-m 200%	
SHAFT				NOISE LEVEL 82.0 dB(A)	
EXTENSION		SINGLE		VIBRATION 30.0 μm	
EXTERNAL THRUST				ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT	
TERMINAL BOX				(AT DIRECT ON-LINE) 78.7 kg-m²	
MAIN		☒ STEEL ☐ AL ☐ CAST		Motor GD² 0.7447 kg-m²	
AUX.		☐ YES ☒ NO		MOTOR APPROX. WEIGHT 183.0 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-30HR1		
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 OTIS STANDARD.					
FC : FAN COOLED SC : SELF COOLED			DATE PREPARED CHECKED APPROVED		
			2007-07-25 J.S.PARK J.S.PARK H.T.KIM		