

HIGEN		INDUCTION MOTOR DATA SHEET		22 kW 4 P 180M	
MODEL: KMI-30HE1		CUSTOMER :		COIL SPEC NO.:	
APPLICATION:		PROJECT NAME:		REV. NO : 0	
QUANTITY :		SETS			
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		180M		OUTPUT 22 kW	
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	
METHODS OF COOLING		☐ SC ☒ FC ☐		☐ REACTOR (%TAP) ☐ V.V.V.F	
PHASE		3 PHASE		☐ VECTOR DRIVE	
SERVICE FACTOR		1.0		RATED VOLTAGE 415 V V	
INSULATION CLASS		F CLASS		FREQUENCY 50 Hz	
RES. METHOD THERMO. METHOD		105 °C		CURRENT	
		°C		NO LOAD 15.5 A A	
		FULL LOAD 40.5 A A			
LOCATION		☒ INDOOR ☐ OUTDOOR		STARTING 356.6 A A	
ALTITUDE		1000 m		EFFICIENCY	
HUMIDITY		80 %		AT 1/2 LOAD %	
AMBIENT TEMPERATURE		-10~40 °C		AT 3/4 LOAD %	
RATING		☒ CONT. ☐ %ED		AT FULL LOAD 91.0 %	
NEMA DESIGN		B		POWER FACTOR	
MOUNTING		☒ B3 ☐ B5 ☐ V1 ☐ B3B5		AT 1/2 LOAD %	
BEARING		TYPE BALL / BALL		AT 3/4 LOAD %	
		DEIN-DE 6311ZZ / 6309ZZ		AT FULL LOAD 83.0 %	
		LUBRICANT GREASE		SPEED (AT FULL LOAD) 1475 rpm	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		TORQUE	
ROTATION(Facing Drive End)		☐ CW ☒ CCW		FULL LOAD 14.5 kg-m 100%	
SHAFT		EXTENSION SINGLE		LOCKED ROTOR 26.1 kg-m 180%	
EXTERNAL THRUST		-		BREAKDOWN 33.4 kg-m 230%	
TERMINAL BOX		ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT			
MAIN		☒ STEEL ☐ AL ☐ CAST		(AT DIRECT ON-LINE) 78.7 kg-m ²	
AUX.		☐ YES ☒ NO		Motor GD ² 0.7447 kg-m ²	
BOX LOCATION		LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT 180 kg	
APPLICATION STANDARDS		KS.IEC		PAINTING	
				MUNSELL NO. 7.1B 4.0/0.9	
				THICKNESS ☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION DW-KMI-30HE1		
WINDING NO			SPEED-TORQUE CURVE ST-KMI-30HE1		
TYPE -					
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 MOTOR STANDARD.					
TE : TOTALLY ENCLOSED DP : DRIP PROOF			DATE		
FC : FAN COOLED SC : SELF COOLED			PREPARED		
			CHECKED		
			APPROVED		
			2010-04-26		
			K.I.HA		
			K.I.HA		
			H.J.KIM		