

HIGEN		INDUCTION MOTOR DATA SHEET		90 kW 4 P 250M	
MODEL:		CUSTOMER :		REV. NO : 0	
APPLICATION:		PROJECT NAME:		QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		250M		OUTPUT 90 kW	
ENCLOSURE		☐ DRIP PROOF		POLES 4 POLES	
		☒ TOTALLY ENCLOSED		ROTOR TYPE SQUIRREL CAGE	
		☐ Increased Safety Exp.-proof		☐ D.O.L ☒ Y-△	
PROTECTION		IP 55		STARTING METHOD	
METHODS OF COOLING		☐ SC ☒ FC ☐		☐ REACTOR (%TAP) ☐ V.V.V.F	
PHASE		3 PHASE		☐ VECTOR-DRIVE	
SERVICE FACTOR		1.15		RATED VOLTAGE 380 V V	
INSULATION CLASS		F CLASS		FREQUENCY 60 Hz	
TEMP. RISE AT FULL LOAD (at S.F 1.0)		CURRENT			
RES. METHOD		105 deg		NO LOAD A A	
THERMO. METHOD		°C		FULL LOAD 168.3 A A	
LOCATION		☒ INDOOR ☐ OUTDOOR		STARTING 1093.7 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 94.5 %	
NEMA DESIGN		B		POWER FACTOR	
MOUNTING		☒ B3 ☐ B5 ☐ V1 ☐ B3B5		AT 1/2 LOAD %	
BEARING		TYPE ROLLER / BALL		AT 3/4 LOAD %	
		DEIN-DE NU218 / 6314ZZC3		AT FULL LOAD 86.0 %	
		LUBRICANT GREASE		SPEED (AT FULL LOAD) 1770 rpm	
COUPLING METHOD		☐ DIRECT ☒ V-BELT		TORQUE	
ROTATION(Facing Drive End)		☐ CW ☒ CCW		FULL LOAD 49.5 kg-m 100%	
SHAFT		NOISE LEVEL 89.0 dB(A)			
EXTENSION		SINGLE		VIBRATION 30.0 μm	
EXTERNAL THRUST		-		ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT	
TERMINAL BOX		(AT DIRECT ON-LINE) 190.0 kg-m ²			
MAIN		☒ STEEL ☐ AL ☐ CAST		Motor GD ² 4.85 kg-m ²	
AUX.		☐ YES ☒ NO		MOTOR APPROX. WEIGHT 540 kg	
BOX LOCATION		LEFT (Viewed from Drive end)		PAINTING	
APPLICATION STANDARDS		KS.IEC		MUNSELL NO. 5PB 2.5/8.0	
				THICKNESS ☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION DW-KMH-120HU1		
WINDING NO			SPEED-TORQUE CURVE ST-KMH-120HU1		
TYPE -			TERMINAL BOX DIMENSION TB-250SM-1		
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.			2. HIGH EFFICIENCY MOTOR.		
TE : TOTALLY ENCLOSED DP : DRIP PROOF			DATE		
FC : FAN COOLED SC : SELF COOLED			PREPARED		
			CHECKED		
			APPROVED		
			2015-06-23		
			J.H.KIM		
			S.S.YUN		
			T.I.PARK		