

HIGEN		INDUCTION MOTOR DATA SHEET		90 kW 4 P 250M	
MODEL:		CUSTOMER :		COIL SPEC NO.:	
APPLICATION:		PROJECT NAME:		REV. NO : 0	
				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		☐ REACTOR (%TAP) ☐ V.V.V.F
METHODS OF COOLING	☐ SC ☒ FC ☐				☐ VECTOR-DRIVE
PHASE	3 PHASE		RATED VOLTAGE		380 V V
SERVICE FACTOR	1.15		FREQUENCY		60 Hz
INSULATION CLASS	F CLASS		CURRENT		
TEMP. RISE AT FULL LOAD (at S.F 1.0)			NO LOAD A A		
RES. METHOD		80 deg	FULL LOAD		168.6 A A
THERMO. METHOD		deg	STARTING		1096.1 A A
LOCATION	☒ INDOOR ☐ OUTDOOR		EFFICIENCY		
ALTITUDE	1000 m		AT 1/2 LOAD %		
HUMIDITY	80 %		AT 3/4 LOAD %		
AMBIENT TEMPERATURE	-10~40 °C		AT FULL LOAD 95.4 %		
RATING	☒ CONT. ☐ S6 40%		POWER FACTOR		
NEMA DESIGN	B		AT 1/2 LOAD %		
MOUNTING	☒ B3 ☐ B5 ☐ V1 ☐ B3B5		AT 3/4 LOAD %		
BEARING	TYPE	BALL / BALL	AT FULL LOAD 85.0 %		
	DEIN-DE	6218C3 / 6314ZZC3	SPEED (AT FULL LOAD) 1770 rpm		
	LUBRICANT	GREASE	TORQUE		
COUPLING METHOD	☒ DIRECT ☐ V-BELT		FULL LOAD 49.5 kg-m 100%		
ROTATION(Facing Drive End)	☐ CW ☒ CCW		LOCKED ROTOR 64.4 kg-m 130%		
SHAFT			BREAKDOWN 99.0 kg-m 200%		
EXTENSION		SINGLE	NOISE LEVEL 89.0 dB(A)		
EXTERNAL THRUST		-	VIBRATION 30.0 μm		
TERMINAL BOX			ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT		
MAIN	☒ STEEL ☐ AL ☐ CAST		(AT DIRECT ON-LINE) 195.0 kg-m²		
AUX.	☐ YES ☒ NO		Motor GD² 7.4731 kg-m²		
BOX LOCATION	LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT 560 kg		
APPLICATION STANDARDS KS.IEC			PAINTING MUNSELL NO. 5 PB 2.5/8		
			THICKNESS ☒ STANDARD ☐ μm		
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION DW-250MTFCHLS-1		
WINDING		NO	TERMINAL BOX DIMENSION TB-MS250N6-1		
TYPE		-	SPEED-TORQUE CURVE ST-P90KU1T250M-1		
BEARING		NO			
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 MOTOR STANDARD.			2. PREMIUM EFFICIENCY MOTOR.(IE3)		
TE : TOTALLY ENCLOSED DP : DRIP PROOF			DATE	PREPARED	CHECKED
FC : FAN COOLED SC : SELF COOLED			2016.03.09	D.L.KIM	S.S.YUN
					APPROVED
					T.I.PARK