

HIGEN		INDUCTION MOTOR DATA SHEET		55 kW 4 P 225S	
MODEL:		CUSTOMER :		COIL SPEC NO.:	
APPLICATION:		PROJECT NAME:		REV. NO : 0	
				QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		225S		OUTPUT 55 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		deg		FULL LOAD 106.4 A A	
LOCATION		☒ INDOOR ☐ OUTDOOR		STARTING 691.3 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 94.1 %	
NEMA DESIGN		B		POWER FACTOR	
MOUNTING		☒ B3 ☐ B5 ☐ V1 ☐ B3B5		AT 1/2 LOAD %	
BEARING		TYPE ROLLER / BALL		AT 3/4 LOAD %	
		DEIN-DE NU314 / 6312ZZC3		AT FULL LOAD 83.5 %	
		LUBRICANT GREASE		SPEED (AT FULL LOAD) 1770 rpm	
COUPLING METHOD		☐ DIRECT ☒ V-BELT		TORQUE	
ROTATION(Facing Drive End)		☐ CW ☒ CCW		FULL LOAD 30.3 kg-m 100%	
SHAFT		LOCKED ROTOR 45.4 kg-m 150%			
EXTENSION		SINGLE		BREAKDOWN 60.5 kg-m 200%	
EXTERNAL THRUST		-		NOISE LEVEL 86.0 dB(A)	
TERMINAL BOX		VIBRATION 30.0 μm			
MAIN		☒ STEEL ☐ AL ☐ CAST		ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT	
AUX.		☐ YES ☒ NO		(AT DIRECT ON-LINE) 143.0 kg-m²	
BOX LOCATION		LEFT (Viewed from Drive end)		Motor GD² 2.6864 kg-m²	
APPLICATION STANDARDS		KS.IEC		MOTOR APPROX. WEIGHT 400 kg	
				PAINTING MUNSSELL NO. 5PB 2.5/8.0	
				THICKNESS ☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR					
WINDING			NO		
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.			2. HIGH EFFICIENCY MOTOR.		
TE : TOTALLY ENCLOSED DP : DRIP PROOF			DATE		
FC : FAN COOLED SC : SELF COOLED			PREPARED		
			CHECKED		
			APPROVED		
			2015-08-21		
			J.H.KIM		
			S.S.YUN		
			T.I.PARK		