

HIGEN		INDUCTION MOTOR DATA SHEET		90 kW 6 P 280S	
MODEL:		CUSTOMER :		COIL SPEC NO.:	
APPLICATION:		PROJECT NAME:		REV. NO : 0	
				QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		280S		OUTPUT 90 kW	
ENCLOSURE		☐ DRIP PROOF		POLES 6 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 173.0 A A	
				STARTING 1211.0 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 94.1 %	
RATING		☒ CONT. ☐ %ED		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 84.0 %	
		DEIN-DE 6318C3 / 6318C3		SPEED (AT FULL LOAD) 1180 rpm	
		LUBRICANT GREASE		TORQUE	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		FULL LOAD 74.3 kg-m 100%	
ROTATION(Facing Drive End)		☐ CW ☒ CCW		LOCKED ROTOR 81.7 kg-m 110%	
SHAFT				BREAKDOWN 126.3 kg-m 170%	
EXTENSION		SINGLE		NOISE LEVEL 85.0 dB(A)	
EXTERNAL THRUST		-		VIBRATION 30.0 μm	
TERMINAL BOX		ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT			
MAIN		☐ STEEL ☐ AL ☒ CAST		(AT DIRECT ON-LINE) 585.0 kg-m ²	
AUX.		☐ YES ☒ NO		Motor GD ² 12.1784 kg-m ²	
BOX LOCATION		TOP (Viewed from Drive end)		MOTOR APPROX. WEIGHT 860 kg	
APPLICATION STANDARDS		KS.IEC		PAINTING MUNSELL NO. 5PB 2.5/8.0	
				THICKNESS ☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION DW-KMH-120HU8		
WINDING NO			SPEED-TORQUE CURVE ST-KMH-120HU8		
TYPE -			TERMINAL BOX DIMENSION TB-280SM-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 PREPARED CHECKED APPROVED		
FC : FAN COOLED SC : SELF COOLED			2015-06-23 J.H.KIM S.S.YUN T.I.PARK		