

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		<input type="checkbox"/> DRIP PROOF		POLES 6 POLES	
		<input checked="" type="checkbox"/> TOTALLY ENCLOSED		ROTOR TYPE SQUIRREL CAGE	
		<input type="checkbox"/> Increased Safety Exp.-proof		<input type="checkbox"/> D.O.L <input checked="" type="checkbox"/> Y-△	
PROTECTION		IP 55		STARTING METHOD	
METHODS OF COOLING		<input type="checkbox"/> SC <input checked="" type="checkbox"/> FC <input type="checkbox"/>		<input type="checkbox"/> REACTOR (%TAP) <input type="checkbox"/> V.V.V.F	
PHASE		3 PHASE		<input type="checkbox"/> 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		80 deg		NO LOAD A A	
THERMO. METHOD		deg		FULL LOAD 171.4 A A	
LOCATION		<input checked="" type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR		STARTING 1113.8 A A	
ALTITUDE		1000 m		EFFICIENCY	
HUMIDITY		80 %		AT 1/2 LOAD %	
AMBIENT TEMPERATURE		-10~40 °C		AT 3/4 LOAD %	
RATING		<input checked="" type="checkbox"/> CONT. <input type="checkbox"/> S6 40%		AT FULL LOAD 95.0 %	
NEMA DESIGN		B		POWER FACTOR	
MOUNTING		<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3B5		AT 1/2 LOAD %	
BEARING		TYPE BALL / BALL		AT 3/4 LOAD %	
		DEIN-DE 6318C3 / 6318C3		AT FULL LOAD 84.0 %	
		LUBRICANT GREASE		SPEED (AT FULL LOAD) 1170 rpm	
COUPLING METHOD		<input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT		TORQUE	
ROTATION(Facing Drive End)		<input type="checkbox"/> CW <input checked="" type="checkbox"/> CCW		FULL LOAD 74.9 kg-m 100%	
SHAFT				LOCKED ROTOR 89.9 kg-m 120%	
EXTENSION		SINGLE		BREAKDOWN 134.8 kg-m 180%	
EXTERNAL THRUST		-		NOISE LEVEL 85.0 dB(A)	
TERMINAL BOX				VIBRATION 30.0 μm	
MAIN		<input type="checkbox"/> STEEL <input type="checkbox"/> AL <input checked="" type="checkbox"/> CAST		ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT	
AUX.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		(AT DIRECT ON-LINE) 585.0 kg-m²	
BOX LOCATION		TOP (Viewed from Drive end)		Motor GD² 12.5589 kg-m²	
APPLICATION STANDARDS		KS.IEC		MOTOR APPROX. WEIGHT 800 kg	
				PAINTING	
				MUNSELL NO. 5 PB 2.5/8	
				THICKNESS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION DW-280STFCHTC-2		
WINDING			TERMINAL BOX DIMENSION TB-MC315N6-1		
TYPE			SPEED-TORQUE CURVE ST-P90KU8T280S-1		
BEARING					
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		
FC : FAN COOLED SC : SELF COOLED			PREPARED		
			CHECKED		
			APPROVED		
			2016.03.09		
			D.L.KIM		
			S.S.YUN		
			T.I.PARK		