

HIGEN		INDUCTION MOTOR DATA SHEET		110 kW 4 P 280S	
MODEL:		CUSTOMER :		COIL SPEC NO.:	
APPLICATION:		PROJECT NAME:		REV. NO : 0	
				QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		280S		OUTPUT 110 kW	
ENCLOSURE	<input type="checkbox"/> DRIP PROOF		POLES		4 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		<input type="checkbox"/> REACTOR (%TAP) <input type="checkbox"/> V.V.V.F
METHODS OF COOLING	<input type="checkbox"/> SC <input checked="" type="checkbox"/> FC <input type="checkbox"/>				<input type="checkbox"/> VECTOR-DRIVE
PHASE	3 PHASE		RATED VOLTAGE		440 V V
SERVICE FACTOR	1.15		FREQUENCY		60 Hz
INSULATION CLASS	F CLASS		CURRENT		
TEMP. RISE AT FULL LOAD (at S.F 1.0)					
RES. METHOD		80 deg	NO LOAD		A A
THERMO. METHOD		deg	FULL LOAD		175.2 A A
			STARTING		1138.8 A A
LOCATION	<input checked="" type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR		EFFICIENCY		
ALTITUDE	1000 m		AT 1/2 LOAD %		
HUMIDITY	80 %		AT 3/4 LOAD %		
AMBIENT TEMPERATURE	-10~40 °C		AT FULL LOAD 95.8 %		
RATING	<input checked="" type="checkbox"/> CONT. <input type="checkbox"/> S6 40%		POWER FACTOR		
NEMA DESIGN	B		AT 1/2 LOAD %		
MOUNTING	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3B5		AT 3/4 LOAD %		
BEARING	TYPE	BALL / BALL	AT FULL LOAD 86.0 %		
	DEIN-DE	6318C3 / 6315ZZC3	SPEED (AT FULL LOAD) 1770 rpm		
	LUBRICANT	GREASE	TORQUE		
COUPLING METHOD	<input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT		FULL LOAD 60.5 kg-m 100%		
ROTATION(Facing Drive End)	<input type="checkbox"/> CW <input checked="" type="checkbox"/> CCW		LOCKED ROTOR 72.6 kg-m 120%		
SHAFT			BREAKDOWN 108.9 kg-m 180%		
EXTENSION		SINGLE	NOISE LEVEL 89.0 dB(A)		
EXTERNAL THRUST		-	VIBRATION 30.0 μm		
TERMINAL BOX			ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT		
MAIN	<input type="checkbox"/> STEEL <input type="checkbox"/> AL <input checked="" type="checkbox"/> CAST		(AT DIRECT ON-LINE) 240.0 kg-m²		
AUX.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Motor GD² 8.4542 kg-m²		
BOX LOCATION	TOP (Viewed from Drive end)		MOTOR APPROX. WEIGHT 780 kg		
APPLICATION STANDARDS	KS.IEC		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-1		
WINDING		NO	TERMINAL BOX DIMENSION TB-MC315N6-1		
TYPE		-	SPEED-TORQUE CURVE ST-P110KV1T280S-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. 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