

HIGEN		INDUCTION MOTOR DATA SHEET		110 kW 6 P 280M	
MODEL:		CUSTOMER :		COIL SPEC NO.:	
APPLICATION:		PROJECT NAME:		REV. NO : 0	
				QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		280M		OUTPUT 110 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	
				☐ 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 202.9 A A	
THERMO. METHOD		deg		STARTING 1318.6 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 95.8 %	
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 86.0 %	
		DEIN-DE 6318C3 / 6318C3		SPEED (AT FULL LOAD) 1180 rpm	
		LUBRICANT GREASE		TORQUE	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		FULL LOAD 90.8 kg-m 100%	
ROTATION(Facing Drive End)		☐ CW ☒ CCW		LOCKED ROTOR 108.9 kg-m 120%	
SHAFT				BREAKDOWN 163.4 kg-m 180%	
EXTENSION		SINGLE		NOISE LEVEL 86.0 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) 650.0 kg-m²	
AUX.		☐ YES ☒ NO		Motor GD² 13.3085 kg-m²	
BOX LOCATION		TOP (Viewed from Drive end)		MOTOR APPROX. WEIGHT 910 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-280MTFCHTC-2		
WINDING			TERMINAL BOX DIMENSION TB-MC315N6-1		
TYPE			SPEED-TORQUE CURVE ST-P110KU8T280M-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		