

HIGEN		INDUCTION MOTOR DATA SHEET		3.7 kW 4 P 112M	
MODEL:		CUSTOMER :		COIL SPEC NO.:	
APPLICATION:		PROJECT NAME:		REV. NO : 0	
				QUANTITY : SETS	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.		112M		OUTPUT 3.7 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 ☐ REACTOR (%TAP) ☐ V.V.V.F ☐ VECTOR-DRIVE	
METHODS OF COOLING		☐ SC ☒ FC ☐ NV			
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)				NO LOAD A A	
RES. METHOD		80 deg		FULL LOAD 7.0 A A	
THERMO. METHOD		deg		STARTING 55.6 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 89.5 %	
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 78.0 %	
		DEIN-DE 6206ZZC3 / 6205ZZC3		SPEED (AT FULL LOAD) 1750 rpm	
		LUBRICANT GREASE		TORQUE	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		FULL LOAD 2.06 kg-m 100%	
ROTATION(Facing Drive End)		☐ CW ☒ CCW		LOCKED ROTOR 3.50 kg-m 170%	
SHAFT				BREAKDOWN 4.12 kg-m 200%	
EXTENSION		SINGLE		NOISE LEVEL 72.0 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) 15.3 kg-m ²	
AUX.		☐ YES ☒ NO		Motor GD ² 0.06 kg-m ²	
BOX LOCATION		LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT 45 kg	
APPLICATION STANDARDS		KS.IEC		PAINTING	
				MUNSELL NO. 5PB 2.5/8	
				THICKNESS ☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION DW-112MTFCHLS-5		
WINDING NO			SPEED-TORQUE CURVE ST-P3.7KV1T112M-1		
TYPE -			TERMINAL BOX DIMENSION TB-MS112NZ-1		
BEARING NO					
TYPE -					
SPACE HEATER NO					
RATING -					
NOTE			REMARKS		
1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE			1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.		
GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.			2. PREMIUM EFFICIENCY MOTOR. (IE3)		
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE					
IN ACCORDANCE WITH HIGEN MOTOR STANDARD.					
TE : TOTALLY ENCLOSED		DP : DRIP PROOF		DATE	PREPARED
FC : FAN COOLED		SC : SELF COOLED		2016-04-07	S.D.YUN
				CHECKED	APPROVED
				S.D.YUN	K.I.HA