



INDUCTION MOTOR DATA SHEET

45 kW 4 P 200L

MODEL:		CUSTOMER :		COIL SPEC NO.:		REV. NO : 0		
APPLICATION:		PROJECT NAME:			QUANTITY : SETS			
GENERAL DATA				PERFORMANCE DATA				
FRAME NO.		200L		OUTPUT		45 kW		
ENCLOSURE		☐ DRIP PROOF		POLES		4 POLES		
		☒ TOTALLY ENCLOSED		ROTOR TYPE		SQUIRREL CAGE		
		☐ Increased Safety Exp.-proof		STARTING METHOD		☐ D.O.L ☒ Y-△		
PROTECTION		IP 55				☐ REACTOR (%TAP) ☐ V.V.V.F		
METHODS OF COOLING		☐ SC ☒ FC ☐		RATED VOLTAGE		☐ VECTOR-DRIVE		
PHASE		3 PHASE				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	
				FULL LOAD		76.0	A	A
				STARTING		494.0	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		93.6 %		
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		83.0 %		
		DEW-DE 6313ZZC3 / 6212ZZC3		SPEED (AT FULL LOAD)				1770 rpm
		LUBRICANT GREASE		TORQUE				
COUPLING METHOD		☒ DIRECT ☒ V-BELT		FULL LOAD		24.8 kg-m	100%	
ROTATION(Facing Drive End)		☐ CW ☒ CCW		LOCKED ROTOR		37.1 kg-m	150%	
SHAFT		EXTENSION SINGLE		BREAKDOWN		56.9 kg-m	230%	
				NOISE LEVEL		86.0 dB(A)		
				VIBRATION		30.0 μm		
EXTERNAL THRUST		-		ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT				
TERMINAL BOX		MAIN ☒ STEEL ☐ AL ☐ CAST AUX. ☐ YES ☒ NO BOX LOCATION LEFT (Viewed from Drive end)		(AT DIRECT ON-LINE)		123.0 kg-m ²		
Motor GD ²				1.8197 kg-m ²				
MOTOR APPROX. WEIGHT				293 kg				
APPLICATION STANDARDS		KS.IEC		PAINTING		MUNSELL NO.	5PB 2.5/8.0	
				THICKNESS		☒ STANDARD ☐	μm	
ACCESSORIES (OPTIONAL)				SUBMITTAL DRAWINGS				
TEMPERATURE DETECTOR								
WINDING		NO						
		TYPE -						
		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