



INDUCTION MOTOR DATA SHEET

1.5 kW 4 P 90L

MODEL:		CUSTOMER :		COIL SPEC NO.:		REV. NO : 0	
APPLICATION:		PROJECT NAME:			QUANTITY : SETS		
GENERAL DATA				PERFORMANCE DATA			
FRAME NO.		90L		OUTPUT		1.5 kW	
ENCLOSURE		☐ DRIP PROOF		POLES		4 POLES	
		☒ TOTALLY ENCLOSED		ROTOR TYPE		SQUIRREL CAGE	
		☐ Increased Safety Exp.-proof		STARTING METHOD		☒ D.O.L ☐ Y-	
PROTECTION		☐ REACTOR (%TAP) ☐ V.V.V.F					
METHODS OF COOLING		☐ SC ☒ FC ☐ NV				☐ 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)				NO LOAD		A A	
				FULL LOAD		3.0 A A	
				STARTING		21.2 A A	
LOCATION		☒ INDOOR ☐ OUTDOOR		EFFICIENCY			
ALTITUDE		1000 m		AT 1/2 LOAD		%	
HUMIDITY		80 %		AT 3/4 LOAD		%	
AMBIENT TEMPERATURE		-10~40		AT FULL LOAD		86.5 %	
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	
		DEIN-DE		6205ZZC3 / 6204ZZC3		75.0 %	
		LUBRICANT		GREASE		SPEED (AT FULL LOAD)	
COUPLING METHOD		☒ DIRECT ☐ V-BELT		TORQUE			
ROTATION(Facing Drive End)		☐ CW ☒ CCW		FULL LOAD		0.84 kg-m 100%	
SHAFT				LOCKED ROTOR		1.60 kg-m 190%	
				BREAKDOWN		1.69 kg-m 200%	
		EXTENSION		SINGLE		NOISE LEVEL	
EXTERNAL THRUST		-		VIBRATION		30.0 μm	
TERMINAL BOX				ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT			
MAIN		☒ STEEL ☐ AL ☐ CAST		(AT DIRECT ON-LINE)		6.0 kg-m ²	
AUX.		☐ YES ☒ NO		Motor GD ²		0.0174 kg-m ²	
BOX LOCATION		LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT		25 kg	
APPLICATION STANDARDS		KS.IEC		PAINTING		MUNSELL NO.	
				THICKNESS		☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)				SUBMITTAL DRAWINGS			
TEMPERATURE DETECTOR				OUTLINE DIMENSION		DW-90LTFCHLS-1	
WINDING		NO		SPEED-TORQUE CURVE		ST-P1.5KV1T90L-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 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	
FC : FAN COOLED		SC : SELF COOLED		2016-04-07		S.D.YUN	
				CHECKED		APPROVED	
				S.D.YUN		K.I.HA	