

MODEL:		CUSTOMER :		COIL SPEC NO.:		REV. NO : 0	
APPLICATION:		PROJECT NAME:				QUANTITY : SETS	
GENERAL DATA				PERFORMANCE DATA			
FRAME NO.		160L		OUTPUT		18.5 kW	
ENCLOSURE		☐ DRIP PROOF		POLES		2 POLES	
		☒ TOTALLY ENCLOSED		ROTOR TYPE		SQUIRREL CAGE	
		☐ Increased Safety Exp.-proof		STARTING METHOD		☐ D.O.L ☒ Y-Δ	
PROTECTION		IP 55				☐ 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		30.4 A A	
				STARTING		197.8 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		91.7 %	
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		87.0 %	
		DEIN-DE 6309ZZC3 / 6307ZZC3		SPEED (AT FULL LOAD) 3550 rpm			
		LUBRICANT GREASE		TORQUE			
COUPLING METHOD		☒ DIRECT ☐ V-BELT		FULL LOAD		5.07 kg-m 100%	
ROTATION(Facing Drive End)		☐ CW ☒ CCW		LOCKED ROTOR		6.60 kg-m 130%	
SHAFT				BREAKDOWN		9.64 kg-m 190%	
EXTENSION		SINGLE		NOISE LEVEL		90.0 dB(A)	
EXTERNAL THRUST		-		VIBRATION		25.0 μm	
TERMINAL BOX				ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT			
MAIN		☒ STEEL ☐ AL ☐ CAST		(AT DIRECT ON-LINE)		11.7 kg-m ²	
AUX.		☐ YES ☒ NO		Motor GD ²		0.2503 kg-m ²	
BOX LOCATION		LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT		124 kg	
APPLICATION STANDARDS		KS.IEC		PAINTING		MUNSELL NO. 5PB 2.5/8	
				THICKNESS		☒ STANDARD ☐ μm	
ACCESSORIES (OPTIONAL)				SUBMITTAL DRAWINGS			
TEMPERATURE DETECTOR				OUTLINE DIMENSION		DW-160LTFCHLS-1	
WINDING		NO		SPEED-TORQUE CURVE		ST-P18.5KV3T-1	
TYPE		-		TERMINAL BOX DIMENSION		TB-MS180NZ-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.			
TE : TOTALLY ENCLOSED		DP : DRIP PROOF		DATE		PREPARED	
FC : FAN COOLED		SC : SELF COOLED		2016-04-08		H.S.LIM	
				CHECKED		APPROVED	
				K.I.HA		K.I.HA	