



INDUCTION MOTOR DATA SHEET

11 kW 4 P 160M

MODEL:	CUSTOMER :	COIL SPEC NO.:	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY :	SETS

GENERAL DATA			PERFORMANCE DATA		
FRAME NO.	160M		OUTPUT	11 kW	
ENCLOSURE	☐ DRIP PROOF		POLES	4 POLES	
	☒ TOTALLY ENCLOSED		ROTOR TYPE	SQUIRREL CAGE	
	☐ Increased Safety Exp.-proof			☒ D.O.L ☐ Y- Δ	
PROTECTION	IP 55		STARTING METHOD	☐ 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	19.6 A	A
			STARTING	147.4 A	A
LOCATION	☒ INDOOR ☐ OUTDOOR		EFFICIENCY		
ALTITUDE	1000 m		AT 1/2 LOAD	%	
HUMIDITY	80 %		AT 3/4 LOAD	%	
AMBIENT TEMPERATURE	-10~40 $^{\circ}$ C		AT FULL LOAD	92.4	%
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	79.5	%
	DEIN-DE	6309ZZC3 / 6307ZZC3	SPEED (AT FULL LOAD)		
	LUBRICANT	GREASE	1775 rpm		
COUPLING METHOD	☒ DIRECT ☐ V-BELT		TORQUE		
ROTATION(Facing Drive End)	☐ CW ☒ CCW		FULL LOAD	6.03 kg-m	100%
SHAFT			LOCKED ROTOR	9.05 kg-m	150%
			BREAKDOWN	12.07 kg-m	200%
	EXTENSION	SINGLE	NOISE LEVEL		
EXTERNAL THRUST	-		78.0 dB(A)		
TERMINAL BOX			ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT		
MAIN	☒ STEEL ☐ AL ☐ CAST		(AT DIRECT ON-LINE)	37.8	kg-m ²
AUX.	☐ YES ☒ NO		Motor GD ²	0.2869	kg-m ²
BOX LOCATION	LEFT (Viewed from Drive end)		MOTOR APPROX. WEIGHT	117	kg
APPLICATION STANDARDS	KS.IEC		PAINING	MUNSELL NO.	5PB 2.5/8
			THICKNESS	☒ STANDARD ☐	μ m

ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
TEMPERATURE DETECTOR			OUTLINE DIMENSION	DW-160MTFCHLS-1	
WINDING	NO		SPEED-TORQUE CURVE	ST-P11KV1T-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 CHECKED APPROVED
FC : FAN COOLED SC : SELF COOLED	2016-04-08 H.S.LIM K.I.HA K.I.HA