



INDUCTION MOTOR DATA SHEET

15 kW 4 P 160L

MODEL: KMH-20HV1

CUSTOMER :

COIL SPEC NO.:

REV. NO : 0

APPLICATION:

PROJECT NAME:

QUANTITY :

SETS

GENERAL DATA**PERFORMANCE DATA**

FRAME NO.	160L	OUTPUT	15	kW
ENCLOSURE	☐ DRIP PROOF	POLES	4	POLES
	☒ TOTALLY ENCLOSED	ROTOR TYPE	SQUIRREL CAGE	
	☐ Increased Safety Exp.-proof	STARTING METHOD	☐ 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
RES. METHOD	105 deg	FULL LOAD	25.9	A A
THERMO. METHOD	deg	STARTING	233.1	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	91.0	%
RATING	☒ CONT. ☐ %ED	POWER FACTOR		
NEMA DESIGN	B	AT 1/2 LOAD	%	
MOUNTING	☒ B3 ☐ B5 ☐ V1 ☐ B3B5	AT 3/4 LOAD	%	
BEARING	TYPE	AT FULL LOAD	83.5	%
	DEIN-DE	6309ZZ / 6307ZZ	SPEED (AT FULL LOAD) 1760 rpm	
	LUBRICANT	GREASE	TORQUE	
COUPLING METHOD	☒ DIRECT ☐ V-BELT	FULL LOAD	8.30	kg-m 100%
ROTATION(Facing Drive End)	☐ CW ☒ CCW	LOCKED ROTOR	12.45	kg-m 150%
SHAFT		BREAKDOWN	16.60	kg-m 200%
EXTENSION	SINGLE	NOISE LEVEL	82.0	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)	48.0	kg-m ²
AUX.	☐ YES ☒ NO	Motor GD ²	0.3764	kg-m ²
BOX LOCATION	LEFT (Viewed from Drive end)	MOTOR APPROX. WEIGHT	139	kg
APPLICATION STANDARDS	KS.IEC	PAINING	MUNSELL NO.	5PB 2.5/8
		THICKNESS	☒ STANDARD ☐	μm

ACCESSORIES (OPTIONAL)**SUBMITTAL DRAWINGS**

TEMPERATURE DETECTOR		OUTLINE DIMENSION	DW-KMH-20HV1
WINDING	NO	SPEED-TORQUE CURVE	ST-KMH-20HV1
TYPE	-	TERMINAL BOX DIMENSION	TB-KMH-20HV1
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	2016-01-11 H.S.LIM K.I.HA K.I.HA