HIGEN — INDUCTION MOTOR DATA SHEET — 15 HP - 4 P

MODEL: KMI-15HU1F	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.		FF300
ENCLOSURE		☐ DRIP PROOF
		☑ TOTALLY ENCLOSED
		☐ Increased Safety Exp.-proof
PROTECTION		IP 44
METHODS OF COOLING		☐ SC ☑ FC ☐
FREQUENCY		60 Hz
PHASE		3 PHASE
SERVICE FACTOR		1.15
INSULATION CLASS		F CLASS
TEMP. RISE AT FULL LOAD (at S.F 1.0)		
	RES. METHOD	105 °C
	THERMO. METHOD	°C
LOCATION		☑ INDOOR ☐ OUTDOOR
ALTITUDE		1000 m
HUMIDITY		80 %
AMBIENT TEMPERATURE		-10~40 °C
RATING		☑ CONT. ☐ %ED
NEMA DESIGN		B
MOUNTING		☐ B3 ☑ B5 ☑ V1 ☐ B3B5
BEARING	TYPE	BALL
	DE\N-DE	6309ZZ / 6307ZZ
	LUBRICANT	GREASE
COUPLING METHOD		☑ DIRECT ☐ V-BELT
SHAFT		
	EXTENSION	SINGLE
	EXTERNAL THRUST	
TERMINAL BOX		
	MAIN	☑ STEEL ☐ AL ☐ CAST
	AUX.	☐ YES ☑ NO
	BOX LOCATION	LEFT (Viewed from Drive end)
APPLICATION STANDARDS		KS.IEC

PERFORMANCE DATA

OUTPUT		11 kW	15	HP
POLES		4 POLES		
ROTOR TYPE		SQUIRREL CAGE		
STARTING METHOD		☐ D.O.L ☑ Y-△		
		☐ REACTOR (%TAP) ☐ V.V.V.F		
		☐ SOFT-STARTER		
RATED VOLTAGE		380 V	V	V
CURRENT				
	NO LOAD	8.8 A	A	A
	FULL LOAD	22.6 A	A	A
	STARTING	176.6 A	A	A
EFFICIENCY				
	AT 1/2 LOAD	%		
	AT 3/4 LOAD	%		
	AT FULL LOAD	90.0 %		
POWER FACTOR				
	AT 1/2 LOAD	%		
	AT 3/4 LOAD	%		
	AT FULL LOAD	82.0 %		
SPEED (AT FULL LOAD)		1760 rpm		
TORQUE				
	FULL LOAD	6.1 kg-m	100%	
	LOCKED ROTOR	11.0 kg-m	180%	
	BREAKDOWN	12.2 kg-m	200%	
NOISE LEVEL		78.0 dB(A)		
VIBRATION		30.0 μm		
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)		37.8 $kg\text{-}m^2$		
Motor GD²		0.2869 $kg\text{-}m^2$		
MOTOR APPROX. WEIGHT		112.0 kg		
PAINTING	MUNSELL NO.	7.1 B 4.0/0.9		
	THICKNESS	☑ STANDARD ☐ μm		

ACCESSORIES (OPTIONAL)

TEMPERATURE DETECTOR		
	WINDING	NO
	TYPE	
	BEARING	NO
	TYPE	
SPACE HEATER		NO
	RATING	

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-V-160M-CA
S-T CURVE	ST-KMI-15HU1
TERMINAL BOX DIMENSION	TB-2M95115

NOTE

1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH HIGEN STANDARD.

REMARKS

1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.

FC : FAN COOLED SC : SELF COOLED

DATE	PREPARED	CHECKED	APPROVED
2008-05-02	J.S.PARK	J.S.PARK	H.T.KIM