INDUCTION MOTOR DATA SHEET

HIGEN

7.5 kW - 2 P

MODEL: KMH-10HU3F	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.		FF265
ENCLOSURE	☐	DRIP PROOF
	☑	TOTALLY ENCLOSED
	☐	Increased Safety Exp.-proof
PROTECTION		IP 54
METHODS OF COOLING	☐ SC ☑ FC ☐	
PHASE		3 PHASE
SERVICE FACTOR		1.15
INSULATION CLASS		F CLASS
TEMP. RISE AT FULL LOAD (at S.F 1.0)		
RES. METHOD		105 ℃
THERMO. METHOD		℃
LOCATION	☑ INDOOR ☐ OUTDOOR	
ALTITUDE		1000 m
HUMIDITY		80 %
AMBIENT TEMPERATURE		-10~40 ℃
RATING	☑ CONT. ☐ %ED	
NEMA DESIGN		B
MOUNTING	☐ B3 ☑ B5 ☑ V1 ☐ B3B5	
BEARING TYPE		BALL
BEARING DE\N-DE		6208ZZ/6206ZZ
BEARING LUBRICANT		GREASE
COUPLING METHOD	☑ DIRECT ☐ V-BELT	
ROTATION(Facing Drive End)	☐ CW ☑ CCW	
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		7.5	kW	
POLES		2	POLES	
ROTOR TYPE		SQUIRREL CAGE		
STARTING METHOD	☑ D.O.L ☐ Y-△			
	☐ REACTOR (%TAP) ☐ V.V.V.F			
	☐ VECTOR DRIVE			
RATED VOLTAGE		380 V	V	V
FREQUENCY		60	Hz	
CURRENT				
	NO LOAD	4.3 A	A	A
	FULL LOAD	14.4 A	A	A
	STARTING	100.7 A	A	A
EFFICIENCY				
	AT 1/2 LOAD		%	
	AT 3/4 LOAD		%	
	AT FULL LOAD	89.5	%	
POWER FACTOR				
	AT 1/2 LOAD		%	
	AT 3/4 LOAD		%	
	AT FULL LOAD	88.5	%	
SPEED (AT FULL LOAD)		3530	rpm	
TORQUE				
	FULL LOAD	2.1	kg-m	100%
	LOCKED ROTOR	3.1	kg-m	150%
	BREAKDOWN	4.1	kg-m	200%
NOISE LEVEL		84	dB(A)	
VIBRATION		30.0	μm	
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)		5.9	$kg\text{-}m^2$	
Motor GD^2		0.1160	$kg\text{-}m^2$	
MOTOR APPROX. WEIGHT		68	kg	
PAINTING	MUNSELL NO.	5.0PB 8.0/2.5		
	THICKNESS	☑ STANDARD ☐	μm	

ACCESSORIES (OPTIONAL)

SUBMITTAL DRAWINGS

SPEED-TORQUE CURVE	ST-KMH-10HU3F

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.
2. HIGH EFFICIENCY MOTOR.

TE : TOTALLY ENCLOSED DP : DRIP PROOF
FC : FAN COOLED SC : SELF COOLED

DATE	PREPARED	CHECKED	APPROVED
2009-04-20	Y.D.WON	S.S.YUN	H.J.KIM