HIGEN — INDUCTION MOTOR DATA SHEET — 5.5 kW - 4 P

MODEL: KMH-08HY1	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.	132S	
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	5.5 kW	7.5 HP		
POLES	4 POLES			
ROTOR TYPE	SQUIRREL CAGE			
STARTING METHOD	☑ D.O.L ☐ Y-△			
	☐ REACTOR (%TAP) ☐ V.V.V.F			
	☐ VECTOR DRIVE			
RATED VOLTAGE	460 V	V	V	
FREQUENCY	60 Hz			
CURRENT				
NO LOAD	4.0 A	A	A	
FULL LOAD	9.4 A	A	A	
STARTING	61.2 A	A	A	
EFFICIENCY				
AT 1/2 LOAD	%			
AT 3/4 LOAD	%			
AT FULL LOAD	90.5 %			
POWER FACTOR				
AT 1/2 LOAD	%			
AT 3/4 LOAD	%			
AT FULL LOAD	81.0 %			
SPEED (AT FULL LOAD)	1745 rpm			
TORQUE				
FULL LOAD	3.1 kg-m	100%		
LOCKED ROTOR	5.2 kg-m	170%		
BREAKDOWN	6.1 kg-m	200%		
NOISE LEVEL	74 dB(A)			
VIBRATION	30.0 μm			
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)	22.2 $kg\text{-}m^2$			
Motor GD²	0.1060 $kg\text{-}m^2$			
MOTOR APPROX. WEIGHT	66 kg			
PAINTING MUNSELL NO.	5PB 8/2.5			
PAINTING THICKNESS	☑ STANDARD ☐ μm			

ACCESSORIES (OPTIONAL)

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-KMH-08HY1
SPEED-TORQUE CURVE	ST-KMH-08HY1

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
2009.06.16	S.M.KIM	K.I.HA	H.J.KIM