HIGEN	INDUCTION MOTOR DATA SHEET	40 HP - 4 P
MODEL: KMI-40HZ1	CUSTOMER :	REV. NO : 0
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.	180L	
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	
BEARING DE\N-DE	6312ZZ / 6309ZZ	
BEARING 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	30	kW	40	HP
POLES	4	POLES		
ROTOR TYPE	SQUIRREL CAGE			
STARTING METHOD	☐ D.O.L ☑ Y-△			
	☐ REACTOR (%TAP) ☐ V.V.V.F			
	☐ SOFT-STARTER			
RATED VOLTAGE	480	V	V	V
CURRENT				
NO LOAD	17.0	A	A	A
FULL LOAD	47.5	A	A	A
STARTING	361.1	A	A	A
EFFICIENCY				
AT 1/2 LOAD		%		
AT 3/4 LOAD		%		
AT FULL LOAD	91.5	%		
POWER FACTOR				
AT 1/2 LOAD		%		
AT 3/4 LOAD		%		
AT FULL LOAD	83.0	%		
SPEED (AT FULL LOAD)	1765	rpm		
TORQUE				
FULL LOAD	16.6	kg-m	100%	
LOCKED ROTOR	21.5	kg-m	130%	
BREAKDOWN	31.4	kg-m	190%	
NOISE LEVEL	84.0	dB(A)		
VIBRATION	30.0	μm		
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT (AT DIRECT ON-LINE)	97.5	kg-m²		
Motor GD²	0.8623	kg-m²		
MOTOR APPROX. WEIGHT	210.0	kg		
PAINTING MUNSELL NO.	7.1 B 4.0/0.9			
PAINTING THICKNESS	☑ STANDARD ☐	μm		

ACCESSORIES (OPTIONAL)

SUBMITTAL DRAWINGS

OUTLINE DIMENSION	DW-KMI-40HZ1
S-T CURVE	ST-KMI-40HZ1
TERMINAL BOX DIMENSION	TB-KMI-40HZ1

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
2008.11.17	S.M.KIM	S.S.YUN	H.T.KIM