INDUCTION MOTOR DATA SHEET

HIGEN

3.7 KW - 6 P

MODEL: I05HV8FBB3-BB053	CUSTOMER :	REV. NO :
APPLICATION:	PROJECT NAME:	QUANTITY : SETS

GENERAL DATA

FRAME NO.		FF265
ENCLOSURE	☐ DRIP PROOF	
	☑ TOTALLY ENCLOSED	
	☐ Increased Safety Exp.-proof	
PROTECTION		IP 56
METHODS OF COOLING		☐ SC ☐ FC ☑ NV
PHASE		3 PHASE
SERVICE FACTOR		1.0
INSULATION CLASS		F CLASS
TEMP. RISE AT FULL LOAD (at S.F 1.0)		
	RES. METHOD	95 ℃
	THERMO. METHOD	℃
LOCATION		☑ INDOOR ☐ OUTDOOR
ALTITUDE		1000 m
HUMIDITY		80 %
AMBIENT TEMPERATURE		-10~50 ℃
RATING		☑ CONT. ☐ %ED
NEMA DESIGN		B
MOUNTING		☐ B3 ☐ B5 ☑ V1 ☐ B3B5
BEARING	TYPE	BALL
	DE\N-DE	6208ZZ/6206ZZ
	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		3.7	kW	
POLES		6	POLES	
ROTOR TYPE		SQUIRREL CAGE		
STARTING METHOD		☑ D.O.L ☐ Y-△		
		☐ REACTOR (%TAP) ☐ V.V.V.F		
		☐ VECTOR DRIVE		
RATED VOLTAGE		440 V	V	V
FREQUENCY		60	Hz	
CURRENT				
	NO LOAD	A	A	A
	FULL LOAD	7.4 A	A	A
	STARTING	48.1 A	A	A
EFFICIENCY				
	AT 1/2 LOAD		%	
	AT 3/4 LOAD		%	
	AT FULL LOAD	85.0	%	
POWER FACTOR				
	AT 1/2 LOAD		%	
	AT 3/4 LOAD		%	
	AT FULL LOAD	75.0	%	
SPEED (AT FULL LOAD)		1150	rpm	
TORQUE				
	FULL LOAD	3.1	kg-m	100%
	LOCKED ROTOR	4.7	kg-m	150%
	BREAKDOWN	6.0	kg-m	190%
NOISE LEVEL		65	dB(A)	
VIBRATION		30.0	μm	
ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT				
(AT DIRECT ON-LINE)		42.9	kg-m²	
Motor GD²		0.1530	kg-m²	
MOTOR APPROX. WEIGHT		85	kg	
PAINTING	MUNSELL NO.	EP170		
	THICKNESS	☑ STANDARD ☐	μm	

ACCESSORIES (OPTIONAL)

SUBMITTAL DRAWINGS

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.

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

DATE	PREPARED	CHECKED	APPROVED
2009-01-05	K.K.HAN	J.H.JO	H.J.KIM