



# INDUCTION MOTOR DATA SHEET

**50 HP - 4 P**

MODEL:	CUSTOMER :	REV. NO :	0
APPLICATION:	PROJECT NAME:	QUANTITY :	SETS

GENERAL DATA		PERFORMANCE DATA				
FLANGE NO.	FF400	OUTPUT	37	kW	50	HP
ENCLOSURE	<input type="checkbox"/> DRIP PROOF	POLES	4	POLES		
	<input checked="" type="checkbox"/> TOTALLY ENCLOSED	ROTOR TYPE	SQUIRREL CAGE			
	<input type="checkbox"/> Increased Safety Exp.-proof	STARTING METHOD	<input type="checkbox"/> D.O.L <input checked="" type="checkbox"/> Y-			
PROTECTION	<input type="checkbox"/> REACTOR ( %TAP) <input type="checkbox"/> V.V.V.F					
METHODS OF COOLING	<input type="checkbox"/> SC <input checked="" type="checkbox"/> FC <input type="checkbox"/>	<input type="checkbox"/> SOFT-STARTER				
PHASE	3 PHASE	RATED VOLTAGE	440	V	V	V
SERVICE FACTOR	1.0	FREQUENCY	60	Hz		
INSULATION CLASS	F CLASS	CURRENT				
TEMP. RISE AT FULL LOAD (at S.F 1.0)		NO LOAD	19.5	A	A	A
RES. METHOD	95	FULL LOAD	61.0	A	A	A
THERMO. METHOD		STARTING	385.0	A	A	A
LOCATION	<input checked="" type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR	EFFICIENCY				
ALTITUDE	1000 m	AT 1/2 LOAD				
HUMIDITY	80 %	AT 3/4 LOAD				
AMBIENT TEMPERATURE	-10~50	AT FULL LOAD	91.5			
RATING	<input checked="" type="checkbox"/> CONT. <input type="checkbox"/> %ED	POWER FACTOR				
NEMA DESIGN	B	AT 1/2 LOAD				
MOUNTING	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" type="checkbox"/> V1 <input type="checkbox"/> B3B5	AT 3/4 LOAD				
BEARING	TYPE	AT FULL LOAD	87.0			
	DEIN-DE	SPEED (AT FULL LOAD)	1771	rpm		
	LUBRICANT	TORQUE				
COUPLING METHOD	<input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT	FULL LOAD	20.3	kg-m	100%	
ROTATION(Facing Drive End)	<input checked="" type="checkbox"/> CW <input checked="" type="checkbox"/> CCW	LOCKED ROTOR	26.4	kg-m	130%	
SHAFT		BREAKDOWN	38.6	kg-m	190%	
EXTENSION	SINGLE	NOISE LEVEL	85.0	dB(A)		
EXTERNAL THRUST		VIBRATION	30.0	μm		
TERMINAL BOX		ALLOWABLE LOAD GD <sup>2</sup> REFERRED TO MOTOR SHAFT				
MAIN	<input type="checkbox"/> STEEL <input type="checkbox"/> AL <input checked="" type="checkbox"/> CAST	(AT DIRECT ON-LINE)	117.0	kg-m <sup>2</sup>		
AUX.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Motor GD <sup>2</sup>	1.6315	kg-m <sup>2</sup>		
BOX LOCATION	LEFT (Viewed from Drive end)	MOTOR APPROX. WEIGHT	275.0	kg		
APPLICATION STANDARDS	IEC.KS	PAINING	MUNSELL NO.	7.1B4.0/0.9		
		THICKNESS	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/>	μm		

ACCESSORIES (OPTIONAL)		SUBMITTAL DRAWINGS	
SPACE HEATER	ELEMENT TYPE	OUTLINE DIMENSION	
RATING	1 220V 80W	TERMINAL BOX DIMENSION	

NOTE	REMARKS
1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.	1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH OTIS STANDARD.	
TE : TOTALLY ENCLOSED DP : DRIP PROOF	DATE PREPARED CHECKED APPROVED
FC : FAN COOLED SC : SELF COOLED	2007-01-25 B.K.KIM J.S.PARK H.T.KIM