

SPECIFICATION

FOR
THREE PHASE INDUCTION MOTOR



LOW VOLTAGE MOTOR

CUSTOMER : _____

PROJECT : _____

SPEC No. : 070822DS - 1.5kW - 2P - TEFC

5					
4					
3					
2					
1	2007.08.22	FOR APPROVAL	H.G.HAN	H.K.KIM	H.J.KIM
REV	DATE	DESCRIPTION	DESIGN	CHECKED	APPROVED

INDUCTION MOTOR DATA SHEET

1.5 kW - 2 P

MODEL: I02HK3FFCA		CUSTOMER :		REV. NO :	
APPLICATION:		PROJECT NAME:		QUANTITY :	
GENERAL DATA			PERFORMANCE DATA		
FRAME NO.	90L		OUTPUT	1.5 kW	
ENCLOSURE	<input type="checkbox"/> DRIP PROOF		POLES	2 POLES	
	<input checked="" type="checkbox"/> TOTALLY ENCLOSED		ROTOR TYPE	SQUIRREL CAGE	
	<input type="checkbox"/> Increased Safety Exp.-proof		STARTING METHOD	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-	
PROTECTION	IP 44			<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	
FREQUENCY	60 Hz		RATED VOLTAGE	220 V	380 V
PHASE	3 PHASE		CURRENT		
SERVICE FACTOR	1.0		NO LOAD	A	A
INSULATION CLASS	F CLASS		FULL LOAD	5.6 A	3.2 A
TEMP. RISE AT FULL LOAD (at S.F 1.0)			STARTING	47.6 A	27.6 A
RES. METHOD	100		EFFICIENCY		
THERMO. METHOD			AT 1/2 LOAD	%	
LOCATION	<input checked="" type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR		AT 3/4 LOAD	%	
ALTITUDE	1000 m		AT FULL LOAD	79.0	%
HUMIDITY	80 %		POWER FACTOR		
AMBIENT TEMPERATURE	-10-45		AT 1/2 LOAD	%	
RATING	<input checked="" type="checkbox"/> CONT. <input type="checkbox"/> %ED		AT 3/4 LOAD	%	
NEMA DESIGN	B		AT FULL LOAD	89.0	%
MOUNTING	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3B5		SPEED (AT FULL LOAD)	3470	rpm
BEARING	TYPE	BALL	TORQUE		
	DEW-DE	6205ZZ/6204ZZ	FULL LOAD	0.4 kg-m	100%
	LUBRICANT	GREASE	LOCKED ROTOR	0.8 kg-m	180%
COUPLING METHOD	<input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT		BREAKDOWN	0.8 kg-m	200%
SHAFT			NOISE LEVEL	75.0	dB(A)
EXTENSION	SINGLE		VIBRATION	30.0	μm
EXTERNAL THRUST			ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT		
TERMINAL BOX			(AT DIRECT ON-LINE)	1.6	kg-m ²
MAIN	<input type="checkbox"/> STEEL <input type="checkbox"/> AL <input checked="" type="checkbox"/> CAST		Motor GD ²	0.0128	kg-m ²
AUX.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		MOTOR APPROX. WEIGHT	25.0	kg
BOX LOCATION	LEFT (Viewed from Drive end)		PAINING	MUNSELL NO.	7.1B 4.0/0.9
APPLICATION STANDARDS	IEC, KS		THICKNESS	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/>	μm
ACCESSORIES (OPTIONAL)			SUBMITTAL DRAWINGS		
CABLE GLAND : 20a (1EA)			OUTLINE DIMENSION	DW-I02HK3FFCA	
			SPEED-TORQUE CURVE	ST-I02HK3FFCA	
			OUTLINE DIMENSION	TB-I02HK3FFCA	
			SECTIONAL VIEW DRAWING	SD-I02HK3FFCA	
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.					
FC : FAN COOLED	SC : SELF COOLED	DATE	PREPARED	CHECKED	APPROVED
		2007.08.22	H.G.HAN	H.K.KIM	H.J.KIM