



## AC INDUCTION MOTOR DATA SHEET

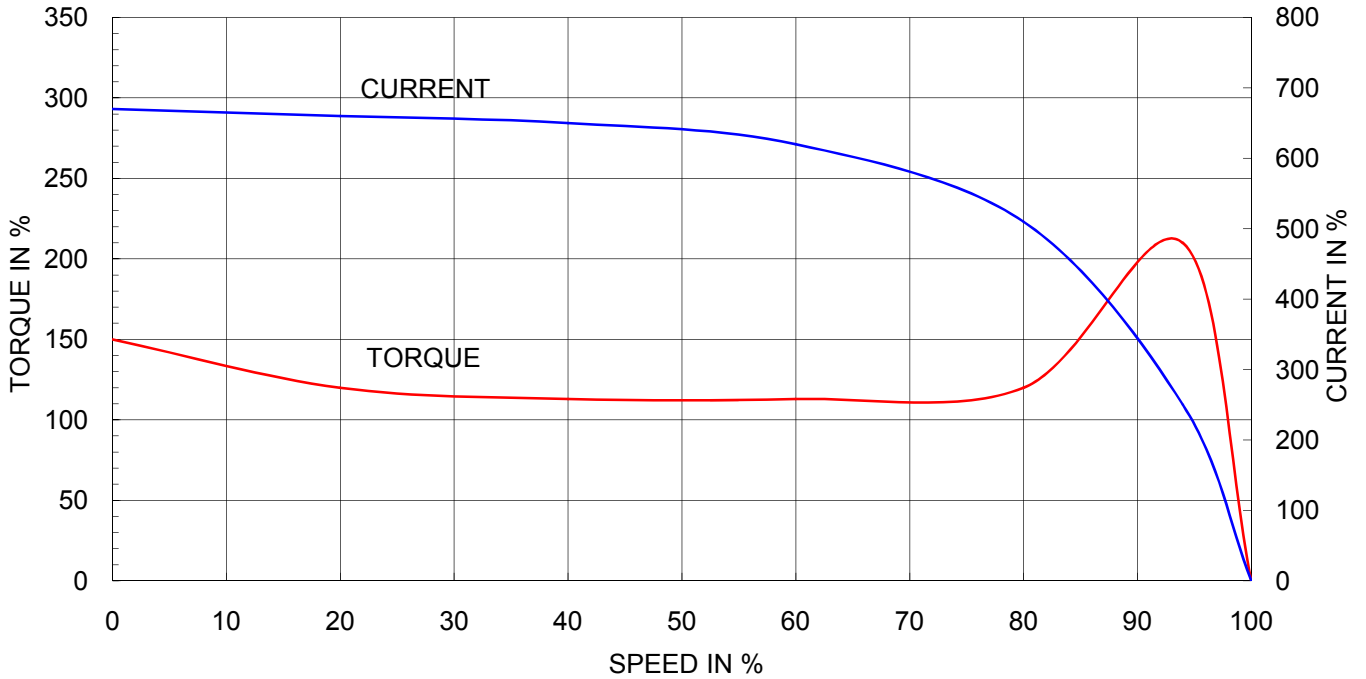
Model No.or RFQ No.		Item No.		Rev. No. [ 0 ]			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	200LL		Rated Output	45 kW      60 HP			
Type	HS-45/4		Number of Poles	4			
Enclosure(Protection)	Totally Enclosed ( IP55 )		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V      220 V		
Number of Phases	3		Current	Full Load	76.0 A      88.0 A      152.0 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	650 %	650 %      650 %		
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F      80 deg. C			50% Load				
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load				
Altitude	Less than 1000 meter		100% Load				
Relative Humidity	Less than 80 %		93.6 %				
Ambient Temp.	40 deg. C (Max.)		Power Factor(p.u)				
Duty Type	Continuos ( S1 )		50% Load				
Service Factor	1.15		75% Load				
Mounting	<input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5		100% Load				
Bearing	Type	Anti-Friction		Speed at Full Load			
	DE/N-DE	6313ZC3 / 6211ZC3		1775 r.p.m			
	Lubricant	Grease(Alvania RL2)		Torque			
External Thrust	Not applicable		Full Load		24.7 kg-m		
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Locked-rotor**		160 %		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Breakdown**		210 %		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		Moment of Inertia (J)			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Load(Max.)		26.000 kg-m <sup>2</sup>	
Location	Refer to Outline Drawing		Motor		0.546 kg-m <sup>2</sup>		
Application			Sound Pressure Level (No-load & mean value at 1m from motor)				
Area classification	Non-Hazardous		78 dB(A)				
Type of Ex-Protection	Not applicable		Vibration			2.2 mm/sec (r.m.s)	
Applicable Standard	KS,IEC,NEMA MG1 Part30(Vpeak)		Permissible number of consecutive starts		Cold      3 times		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \		Motor Weight(Approx.)		
			B3	227B1940CB02	320	kg	
			B5	227B1941CB02	330	kg	
			V1	227B1942CB02	330	kg	
			B3/B5	227B1941PB02	330	kg	
			Main T-Box Ass'y			227B8003CB5	
SPARE PARTS			REMARK			High Efficiency	
			* For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
			Date	DSND	CHKD	CHKD      APPD	
			2009-09-10	KIM R.G.	RA S.J.	KIM O.J.      KIM J.H.	

Note: Others not mentioned in this data sheet shall be in accordance with maker standard.  
 Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.  
 Inspection and performance test shall be maker standard, if not mentioned.  
 \* In case of Inverter-Fed Motor, performance data is based on sine wave tests.  
 \*\* Data is based on when the motor is supplied at rated voltage & frequency, and the data is expressed as a percentage of full-load value.

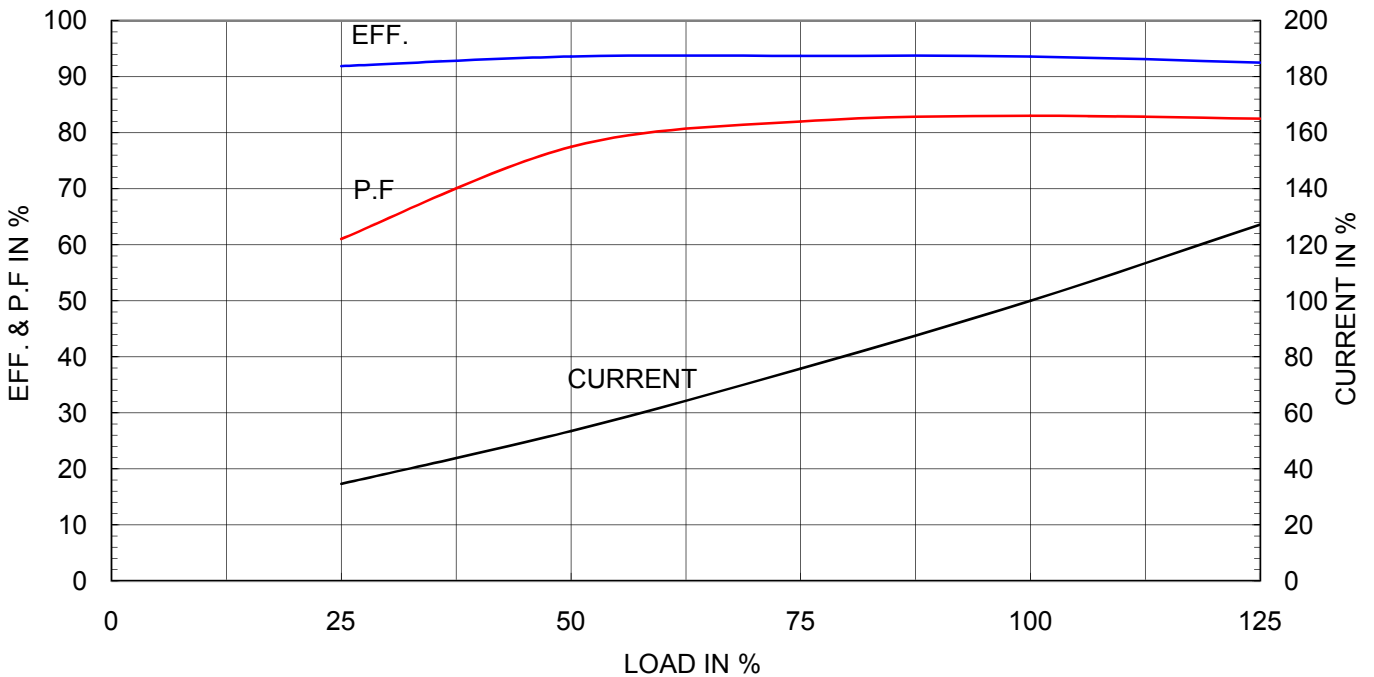
Type	:	HS
Full Load Torque	:	24.7 Kg.m
Motor moment of Inertia (J)	:	0.546 Kg.m <sup>2</sup>
Load moment of Inertia (J)	:	26.000 Kg.m <sup>2</sup>

45 kW	4 P	60 Hz	
Speed at Full Load :		1775 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	76.0A	88.0A	152.0A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



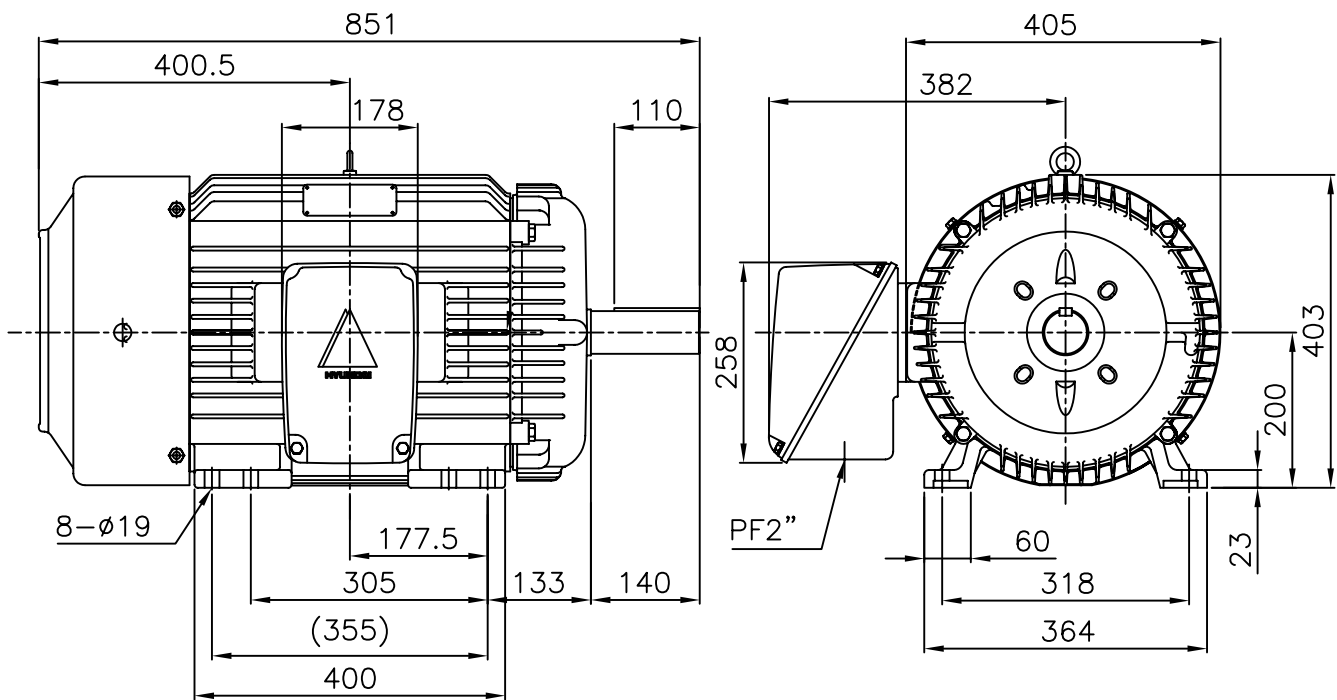


# TEFC

## THREE PHASE INDUCTION MOTOR

**TYPE**

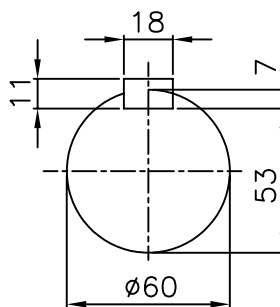
HKS , HK  
CAST IRON FRAME



**NOTE**

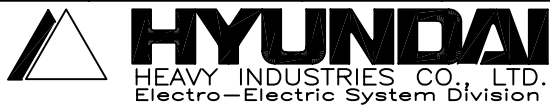
1.TOLERANCE :

CENTER HEIGHT	200	+0 -0.5
BASE HOLES	ø19	+0.43 -0
SHAFT DIAMETER	ø60	+0.030 +0.011
KEYWAY WIDTH	18	+0 -0.043
KEYWAY DEPTH	53	+0 -0.2

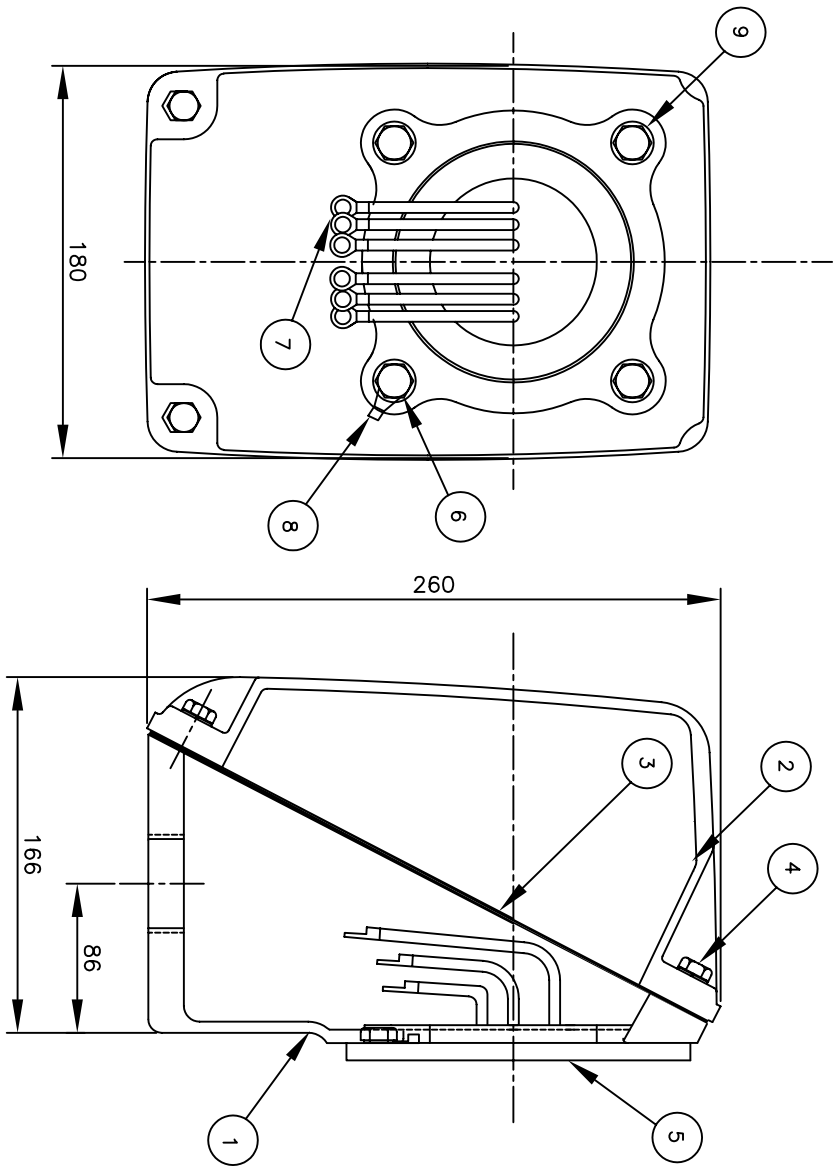


\* CAST IRON CONDUIT BOX

APPD BY	KIM.Y.S	UNIT	mm	SUBJECT	XSD KS 200LL 4,6P	CAD PROJ \ FILE	
CHKD BY	---	SCALE	1/10	TITLE	OUTLINE		
CHKD BY	KO.S.H	PROJEC'N	3rd Angle				
DSND BY	LEE KWANG SOO	DATE	2001.2.20				



REF. NO	B1940CB2	Sheet No.	of
DWG NO	227B1940CB2	Revision No.	0



PT	DESCRIPTION	MATERIAL	DIMENSION	Q.TY
1	CONDUIT BOX	FC20		1
2	C/B COVER	FC20		1
3	GASKET(COVER)	N.B.R	T2X170X210	1
4	SCREW(COVER)	S45C	MBXL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	MBXL20	4
7	TERMINAL LUG	CU	T1.6	
8	TERMINAL GROUND	CU	T1.6	1
9	WASHER	S45C	MB X L10	4

REV	DATE	CONTENTS	REV'D BY	CHK'D BY	CHK'D BY	APP'D BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
	APP'D BY KIM JIN HONG	UNIT	MM				
	CHK'D BY KIM YU SUNG	SCALE	1/2				
	CHK'D BY GO SECK HAN	PROJEC'N	3*4 (3rd Angle)				
	DSND BY LEE KWANG SOO	DATE	94.12.20				
	TITLE		CONDUIT BOX & COVER ASS'Y				
	REF. NO	B8003CB5		Sheet No.	of		
	DWG NO	227B8003CB5		Revision No.	0		

