

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					
Type		HS-45/2					
Enclosure(Protection)		Totally Enclosed (IP55)					
Method of Cooling		IC411(FC)					
Rated Frequency		60 Hz					
Number of Phases		3					
Insulation Class		☒ F ☐ B ☐ H					
Temp. Rise at full load (by resistance method)		at 1.0 S.F. 80 deg. C					
Motor Location		☒ Indoor ☐ Outdoor					
Altitude		Less than 1000 meter					
Relative Humidity		Less than 80 %					
Ambient Temp.		40 deg. C (Max.)					
Duty Type		Continuous (S1)					
Service Factor		1.15					
Mounting		☒ B3 ☐ B5 ☐ V1 ☐ B3/B5					
Bearing	Type	Anti-Friction					
	DE/N-DE	6212ZC3 / 6211ZC3					
	Lubricant	Grease(Gadus S2 V 100 2)					
External Thrust		Not applicable					
Coupling Method		☒ Direct ☐ V-Belt					
Shaft Extension		☒ Single ☐ Double					
Terminal Box	Main	☐ Steel ☒ Cast Iron					
	Aux.	☐ Yes ☒ No					
Location		Refer to Outline Drawing					
Application							
Area classification		Non-Hazardous					
Type of Ex-Protection		Not applicable					
Applicable Standard		KS,IEC,NEMA MG1 Part30(Vpeak)					
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3	227B1940CB01	320 kg		
			B5		kg		
			V1		kg		
			B3/B5		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
			2010-05-28	R.G. KIM	O.J. KIM	J.H. KIM	K.J. KANG

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.

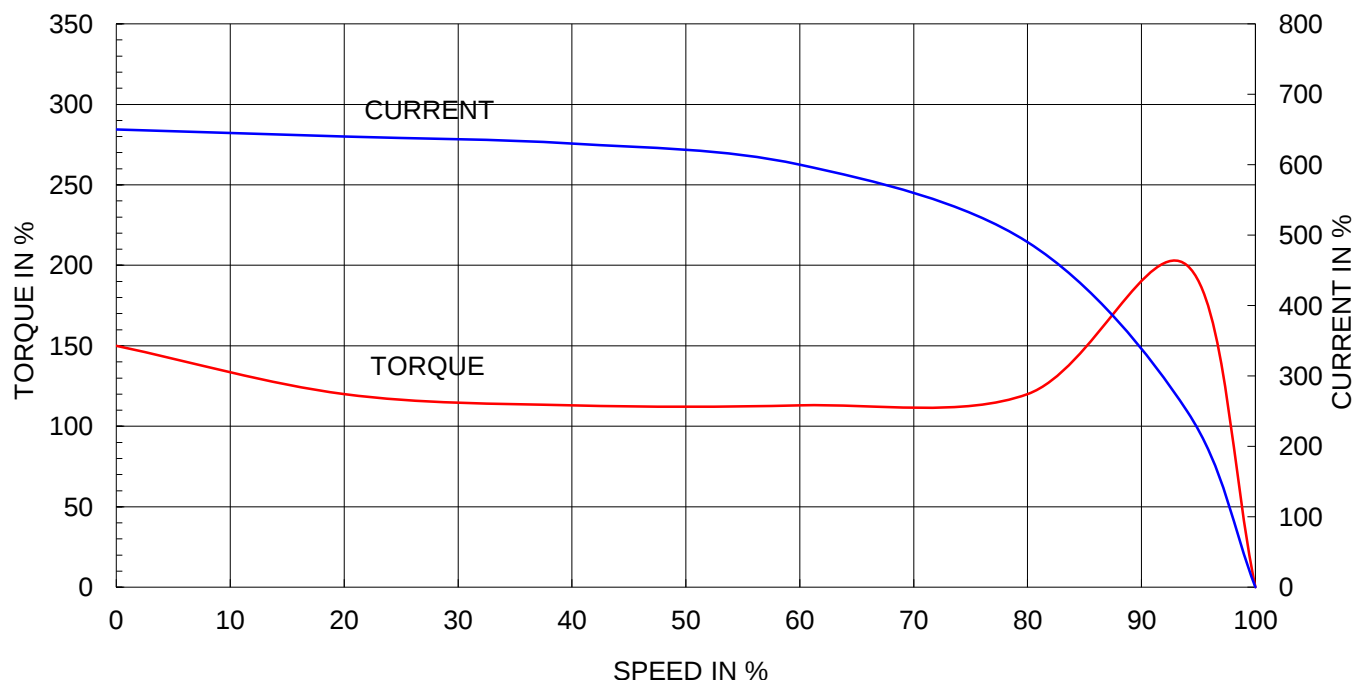
** Data is based on when the motor is supplied at rated voltage & frequency, and the data is expressed as a percentage of full-load value.

HHI W230-131-1 * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests. A4(210mm X 297mm)

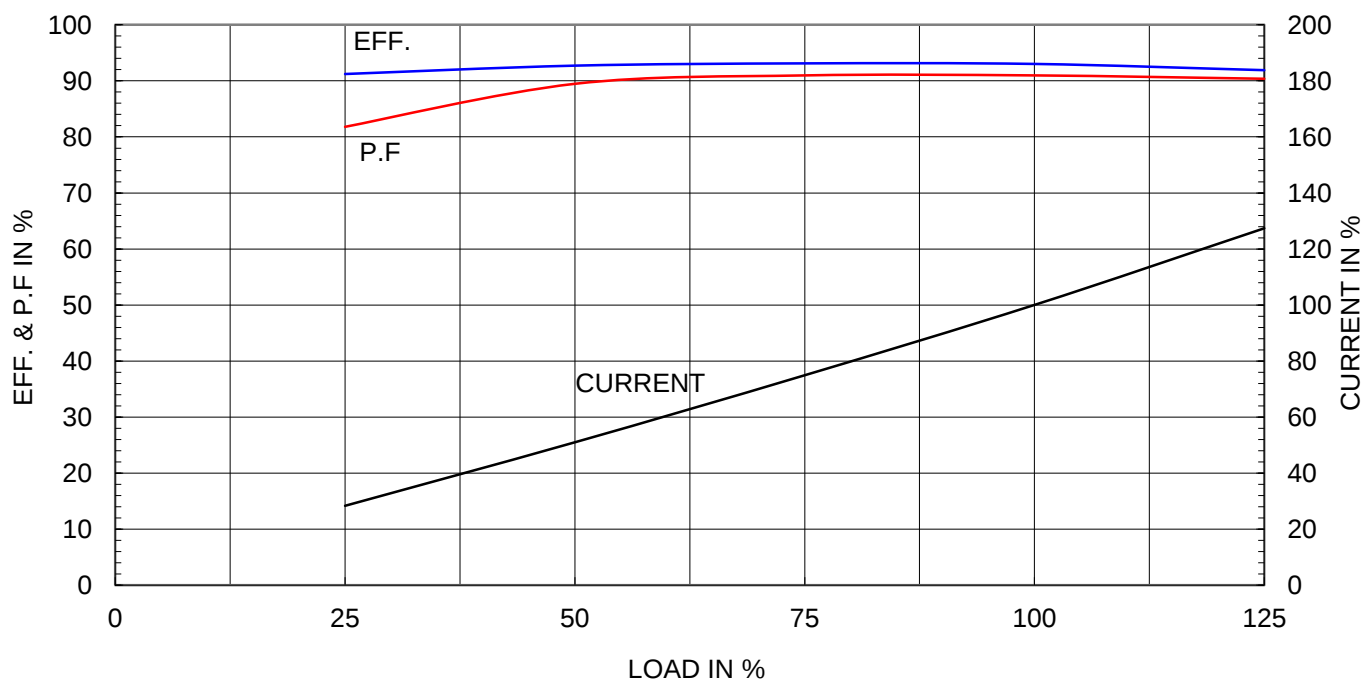
Type	:	HS
Full Load Torque	:	12.3 Kg.m
Motor moment of Inertia (J)	:	0.208 Kg.m ²
Load moment of Inertia (J)	:	4.750 Kg.m ²

45 kW		2 P		60 Hz	
Speed at Full Load :				3560 RPM	
Rated Voltage	460V	380V	220V		
Full Load Current	66.7A	80.8A	139.5A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



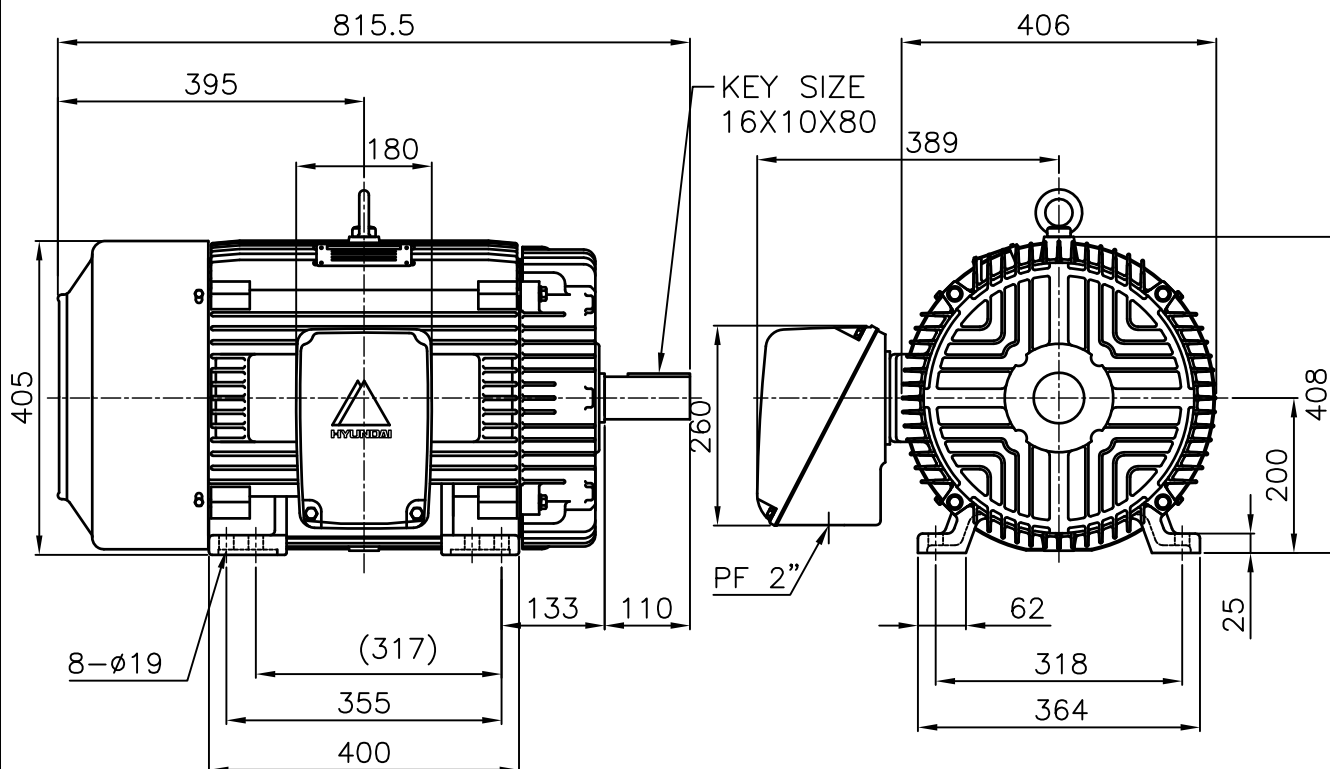


HEAVY INDUSTRIES CO., LTD.

TEFC**THREE PHASE INDUCTION MOTOR****TYPE**

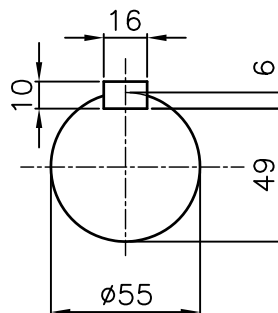
HL, HS

CAST IRON FRAME

**NOTE**

1.TOLERANCE :

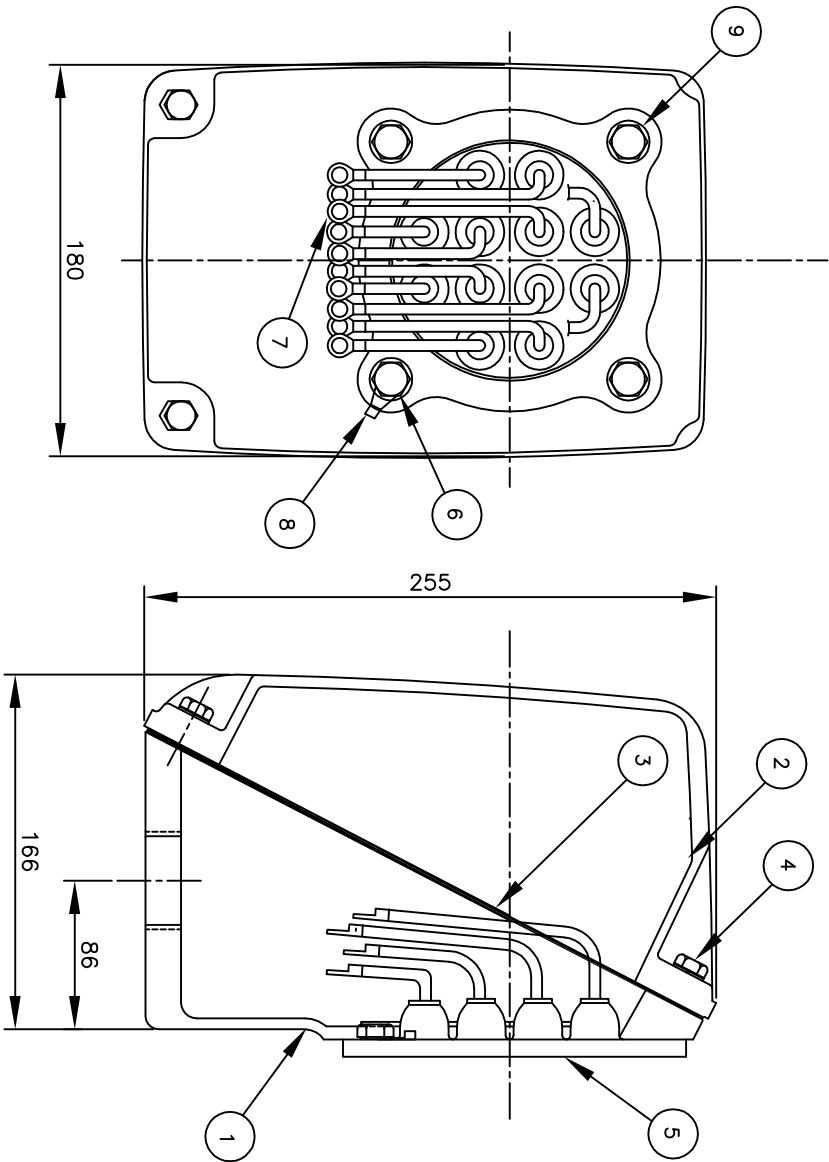
CENTER HEIGHT	200 ⁺⁰ _{-0.5}
BASE HOLES	$\phi 19$ ^{+0.43} ₋₀
SHAFT DIAMETER	$\phi 55$ ^{+0.030} _{+0.011}
KEYWAY WIDTH	16 ⁺⁰ _{-0.043}
KEYWAY DEPTH	6 ⁺⁰ _{-0.2}



* STEEL CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 200LL 2P	CAD PROJ \ FILE
CHKD BY	K. S. LEE	SCALE	1/10	TITLE	OUTLINE	XSDNKS\B2000AB09
CHKD BY	I. K. KIM	PROJEC'N	3rd Angle	REF. NO	B2000AB11	Sheet No. of
DSND BY	S. M. KIM	DATE	2002.10.27	DWG NO	227B2000AB11	Revision No. 0

**HYUNDAI**
HEAVY INDUSTRIES CO., LTD.
Electro-Electric System Division



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	M8XL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	M8XL20	4
7	TERMINAL LUG	CU	T1.6	
8	TERMINAL GROUND	CU	T1.6	1
9	WASHER	S45C	M8 X L10	4

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD	BY KIM JIN HONG	UNIT	MM				
CHKD	BY KIM YU SUNG	SCALE	1/2				
CHKD	BY GO SECK HAN	PROJEC'T	3 [2]1q12L(3rd				
DSND	BY LEE KWANG SOO	DATE	94.12.20				
				REF. NO.	B8003CB5	Sheet No.	of
				DWG NO.	227B8003CB5	Revision No.	0



HYUNDAI
HEAVY INDUSTRIES CO., LTD.
& POWER SYSTEMS

TITLE
CONDUIT BOX
& COVER ASS'Y

Cad Prod. File
XSMOUTV\B8003CB4