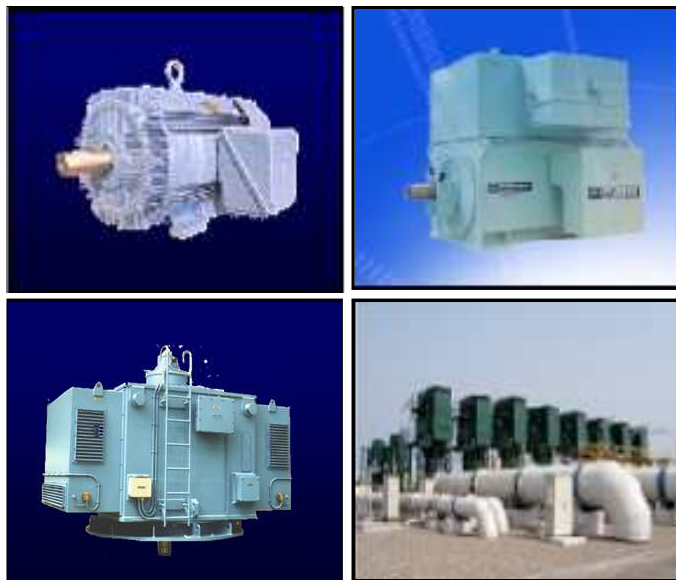


Customer : 현대모터산업(주)  
 Project Name :  
 Project No. : 17-101-597-001  
 Revision No. : 0

# SPECIFICATION for INDUCTION MOTOR



0	2017-06-21	For Approval	H.J.KIM	S.Y.KIM	S.K.HAN
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

# AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No		Item No.		Rev. No.	[ 0 ]		
Project Name		Project No.	17-101-597-001	Quantity	1 set		
<b>GENERAL SPECIFICATION</b>			<b>PERFORMANCE DATA</b>				
Frame Size	200L	Rated Output	37 kW	50 HP			
Type	HLP	Number of Poles	2				
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	380 V				
Number of Phases	3	Current	Full Load	67.2 A			
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	800 %			
Temp. Rise at full load (by resistance method)		Efficiency					
at 1.0 S.F	80 °C		50% Load	90.0 %			
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor		75% Load	92.0 %			
Altitude	Less than 1000m		100% Load	93.0 %			
Relative Humidity	Less than 80 %	Power Factor(p.u)					
Ambient Temp.	40 °C MAX.		50% Load	0.750			
Duty Type	Continuous(S1)		75% Load	0.850			
Service Factor	1.15		100% Load	0.900			
Mounting	<input type="checkbox"/> B3 <input checked="" type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	3560 r.p.m				
Bearing	Type	Anti-Friction	Torque				
	DE/N-DE	6212ZC3 / 6211ZC3	Full Load	10.1 kg.m			
	Lubricant	Grease(Polyrex-EM)	Locked-rotor**	160 %			
External Thrust	Not applicable		Breakdown**	230 %			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Moment of Inertia (J)					
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.)	4.8 kg·m <sup>2</sup>			
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron	Motor	0.168 kg·m <sup>2</sup>			
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)	86 dB(A)			
Location	Refer to Outline Drawing		Vibration	2.2 mm/sec(r.m.s)			
Application		Permissible number of consecutive starts	Cold	3 times			
Area classification	Non-Hazardous		Hot	2 times			
Type of Ex-Protection	Not applicable	Paint	Pantone No.	279C			
Applicable Standard	KS,IEC	<b>ACCESSORIES</b>					
			<b>SUBMITTAL DRAWING</b>				
			Outline Dimension Drawing	\ Motor Weight(Approx.)			
				B5	LM-17101597-1	327 kg	
			Main T-Box Ass'y	TB-17101597-1			
			<b>REMARK</b>				
			*.Premium Efficiency(IE3)				
<b>SPARE PARTS</b>			Date	DSND	CHKD	CHKD	APPD
			2017-06-21	H.J.KIM	I.K.HWANG	S.Y.KIM	S.K.HAN

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.  
 \*\* The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

Type : HLP

Full Load Torque : 10.1 kg.m

 Load moment of Inertia (J) : - kg.m<sup>2</sup>

 Motor moment of Inertia (J) : 0.168 kg.m<sup>2</sup>
**37 kW**
**2 P**
**60 Hz**

Speed at Full Load :

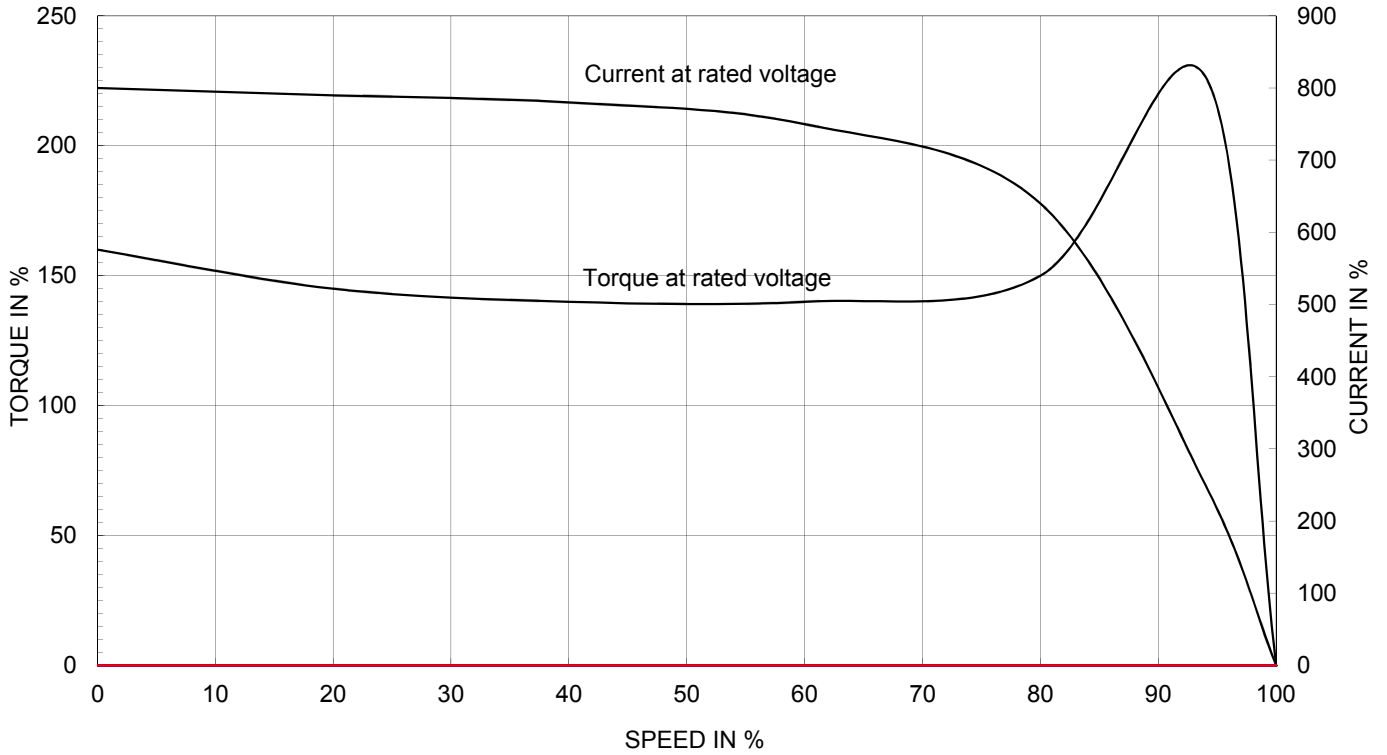
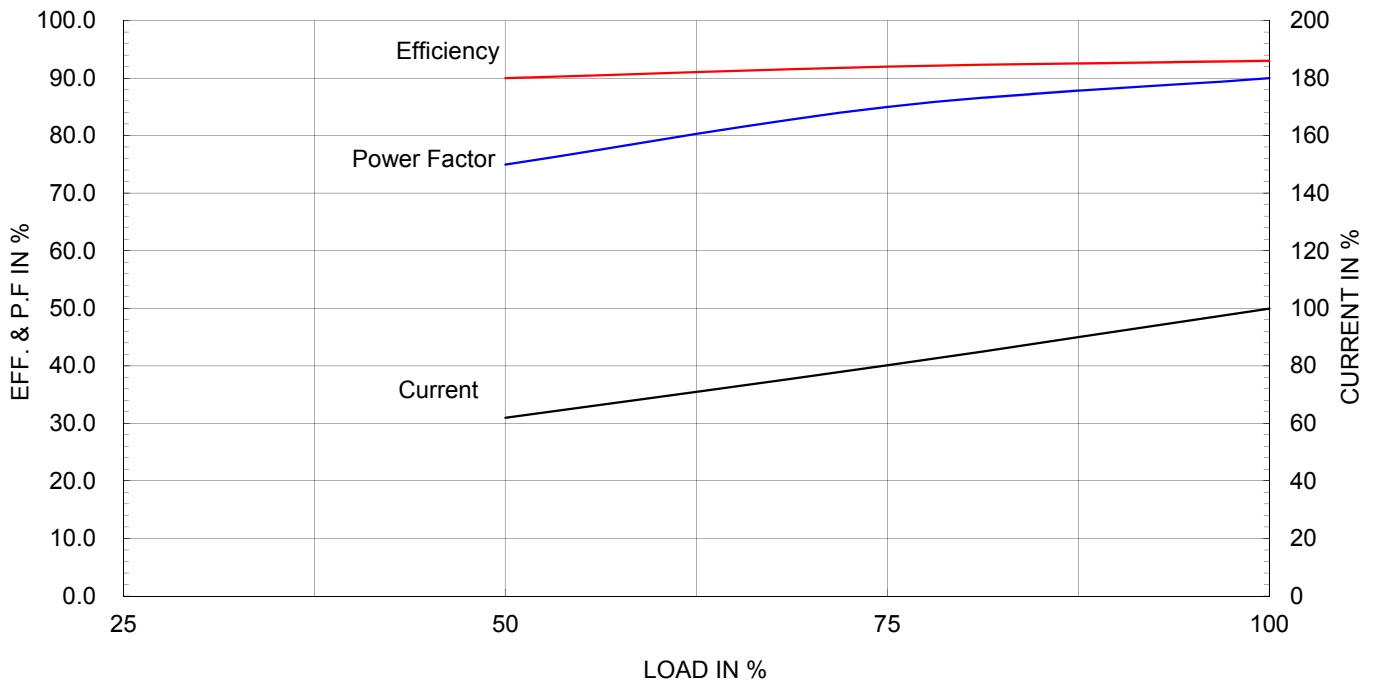
**3560 RPM**

Rated Voltage

380 V

Full Load Current

67.2A

**SPEED VS TORQUE & CURRENT CURVE**

**OUTPUT VS EFF., P.F & CURRENT CURVE**




# TEFC

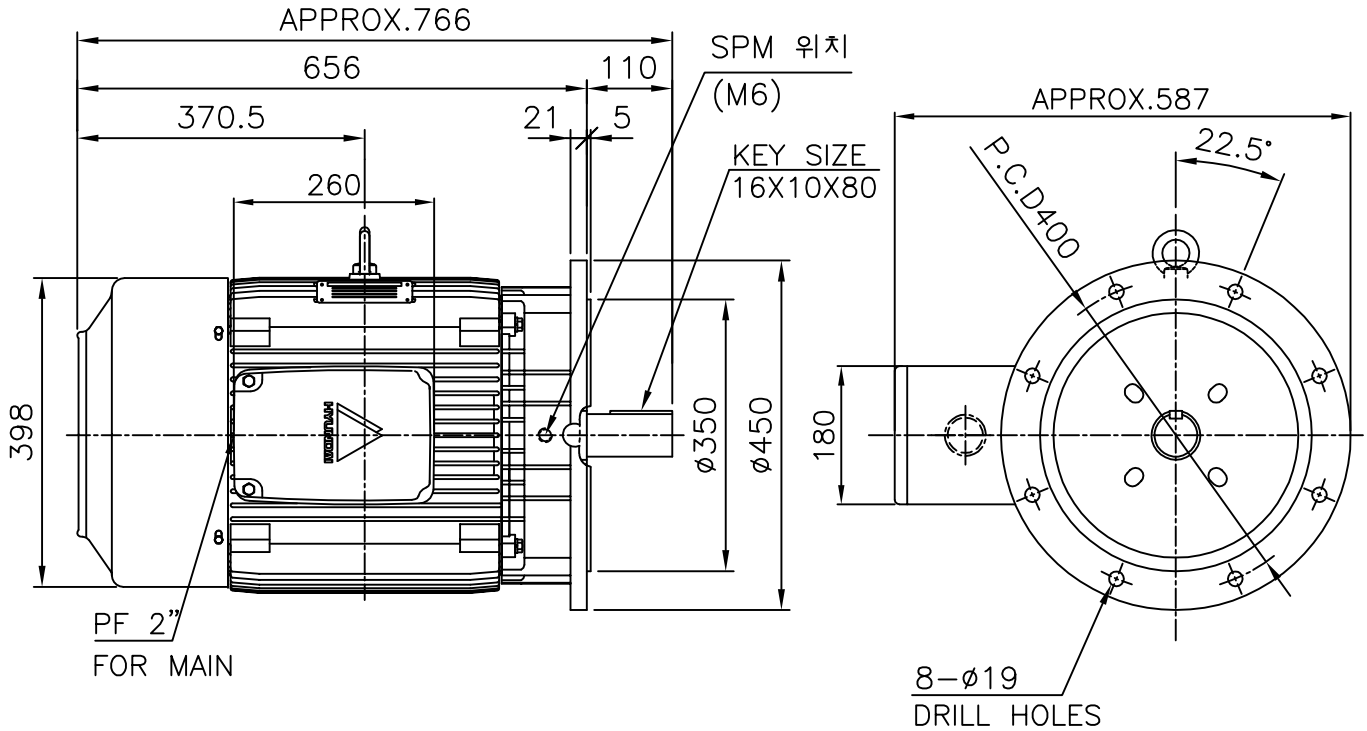
## THREE PHASE INDUCTION MOTOR

### TYPE

HLP

CAST IRON FRAME

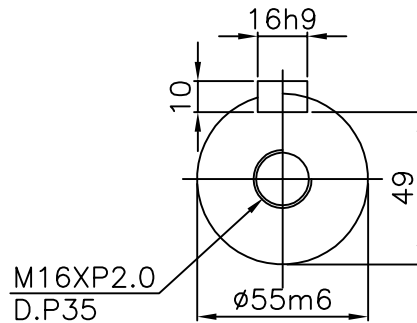
REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY



### NOTE

1. TOLERANCE :

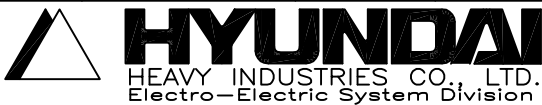
FLANGE HOLES	$\phi 19 \begin{smallmatrix} +0.52 \\ 0 \end{smallmatrix}$
RABBET DIAMETER	$\phi 350 \begin{smallmatrix} +0.018 \\ -0.018 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 55 \begin{smallmatrix} +0.030 \\ +0.011 \end{smallmatrix}$
KEYWAY WIDTH	$16 \begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$
KEYWAY DEPTH	$49 \begin{smallmatrix} 0 \\ -0.2 \end{smallmatrix}$



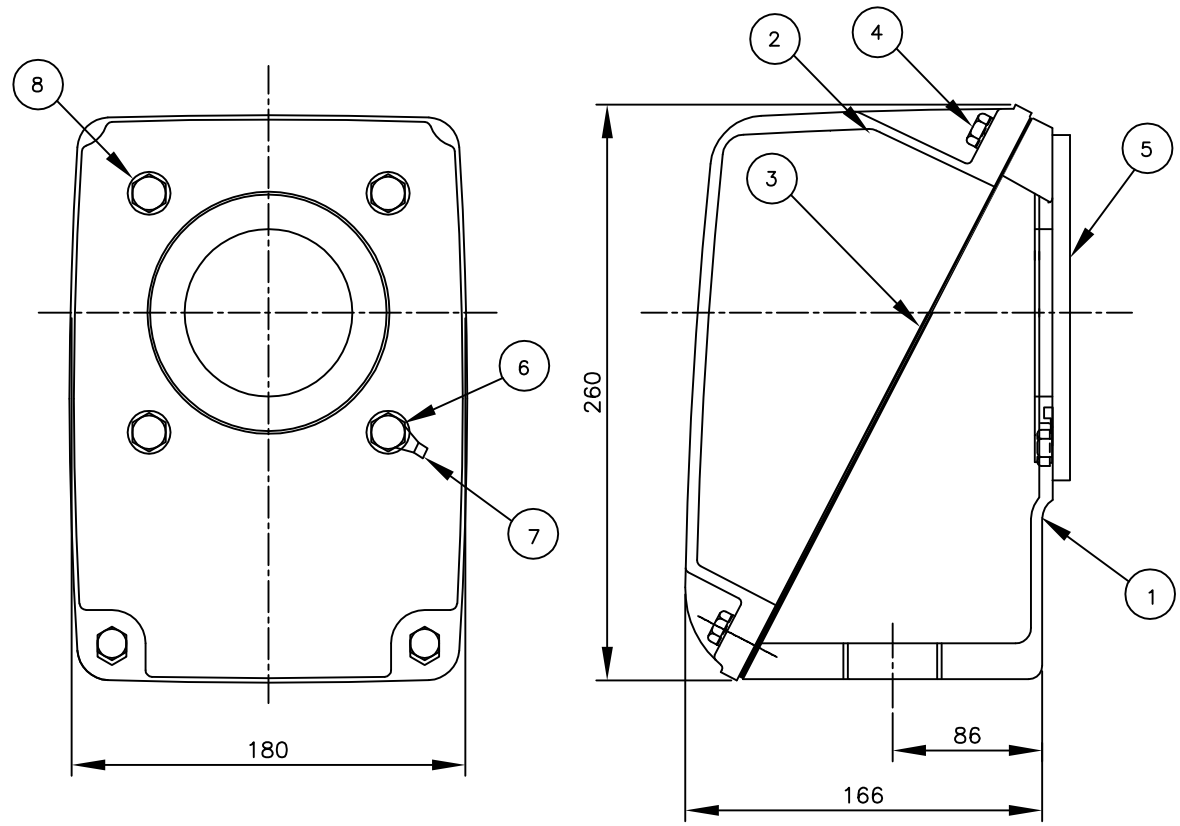
SECTION "X-X"

SCALE 4/10

APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS 200L 2P	CAD PROJ \ FILE	XSDNKS\B2020AB09	
CHKD BY	S.Y.KIM	SCALE	1/10					
CHKD BY	-	PROJEC'N	3rd Angle	TITLE				OUTLINE
DSND BY	H.J.KIM	DATE	2017-06-21					



REF. NO	B2020AB09	Sheet No.	of
DWG NO	LM-17101597-1	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	M8XL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	M10XL35	4
7	TERMINAL GROUND	CU	T1.6	1
8	WASHER	S45C	M8 X L10	4

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	FR 200		DWG SIZE
CHKD BY	S.Y.KIM	SCALE	1/2	TITLE			A3 ( 12 )
CHKD BY	-	PROJEC'N	3각법 (3rd Angle)	Terminal Box Arrangement			
DSND BY	H.J.KIM	DATE	2017-06-21	REF. NO.			Sheet No. of
				DWG NO	TB-17101597-1	Revision No. 0	