



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	132M	Rated Output	7.5 kW	10 HP
Type	HL-XP	Number of Poles	4	
Enclosure(Protection)	Explosion Proof (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	13.8 A 16.0 A 27.7 A
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H	Locked-rotor**	630 %	630 % 630 %
Temp. Rise at full load (by resistance method)		Efficiency		
at 1.0 S.F	80 deg. C	50% Load 89.0 %		
Motor Location	<input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor	75% Load 89.7 %		
Altitude	Less than 1000 meter	100% Load 89.5 %		
Relative Humidity	Less than 80 %	Power Factor(p.u)		
Ambient Temp.	40 deg. C (Max.)	50% Load 0.661		
Duty Type	Continuos (S1)	75% Load 0.749		
Service Factor	1.00	100% Load 0.795		
Mounting	<input type="checkbox"/> B3 <input type="checkbox"/> B5 <input checked="" type="checkbox"/> V1 <input type="checkbox"/> B3/B5	Speed at Full Load	1760 r.p.m	
Bearing	Type	Anti-Friction		
	DE/N-DE	6208ZZC3 / 6208ZZC3		
Lubricant		Grease(Polyrex-EM)		
External Thrust		Not applicable		
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt	Torque		
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double	Full Load 4.2 kg·m		
Terminal Box	Main	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron		
	Aux.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Location		Refer to Outline Drawing		
Application		Moment of Inertia (J)		
Area classification	Hazardous	Load(Max.) 7.500 kg·m ²		
Type of Ex-Protection	Ex d IIB T4	Motor 0.030 kg·m ²		
Applicable Standard	KS,IEC	Sound Pressure Level (No-load & mean value at 1m from motor)		
ACCESSORIES		70 dB(A)		
		Vibration 1.6 mm/sec (r.m.s)		
		Permissible number of consecutive starts		
		Cold 3 times		
		Hot 2 times		
		Paint	Munsell No.	4.0PB5.4/5.5(VL-451)
ACCESSORIES		SUBMITTAL DRAWING		
		Outline Dimension Drawing \ Motor Weight(Approx.)		
		B3		kg
		B5		kg
		V1	227B2062AA04	88 kg
		B3/B5		0 kg
		Main T-Box Ass'y 227B1470LC		
SPARE PARTS		REMARK		
		High Efficiency		
		Date	DSND	CHKD
		2011-04-14	W.H.BACK	S. J. RA
				CHKD
				O. J. KIM
				APPD
				J. H. KIM

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.

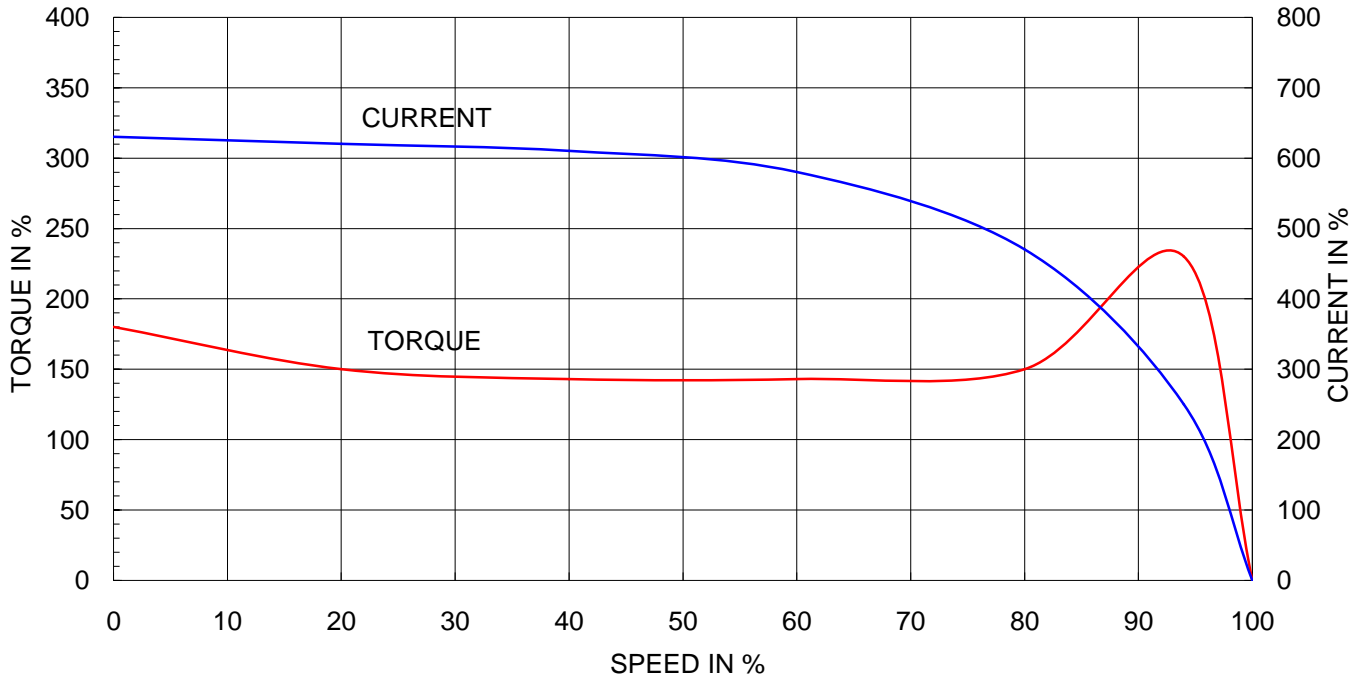
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

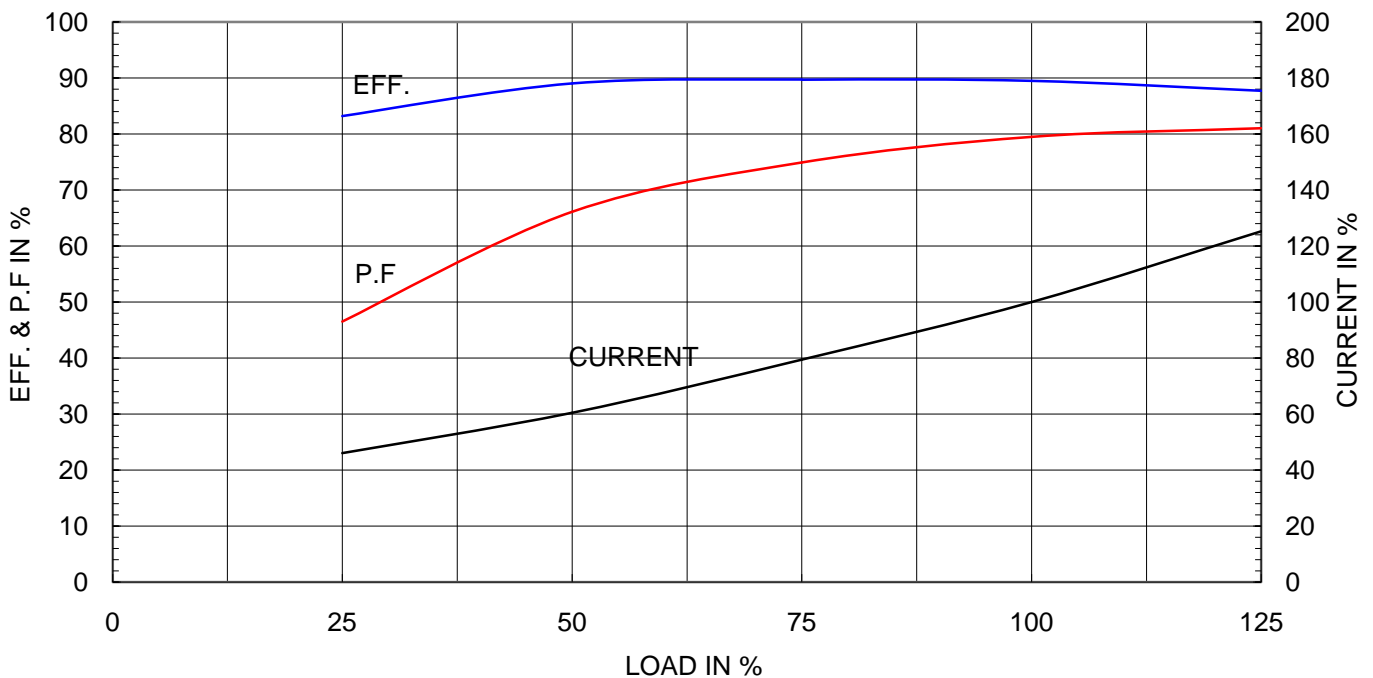
Type	:	HL-XP
Full Load Torque	:	4.2 Kg.m
Motor moment of Inertia (J)	:	0.030 Kg.m ²
Load moment of Inertia (J)	:	7.500 Kg.m ²

7.5 kW	4 P	60 Hz	
Speed at Full Load :		1760 RPM	
Rated Voltage	440V	380V	220V
Full Load Current	13.8A	16.0A	27.7A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





TEFC

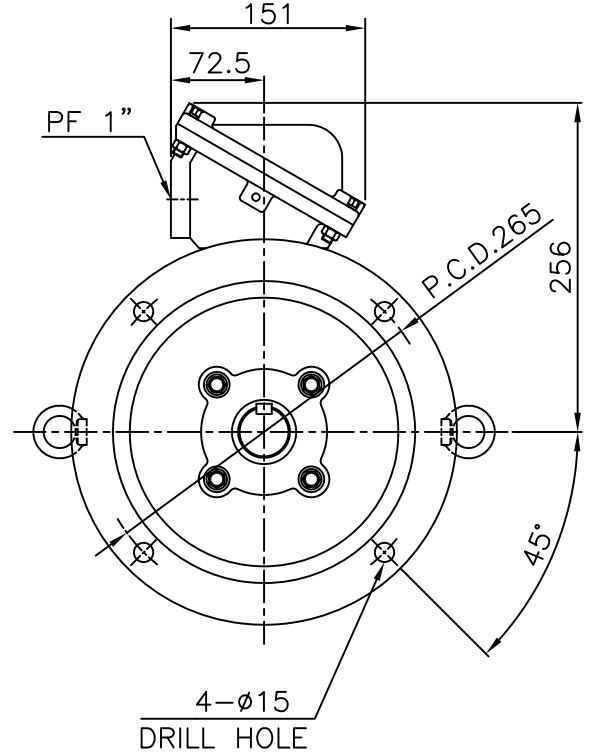
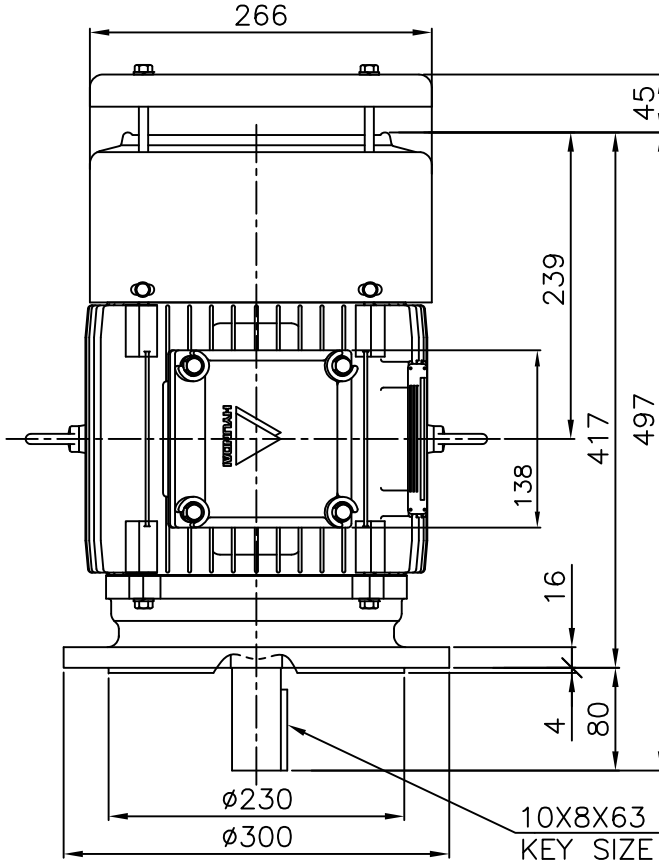
THREE PHASE INDUCTION MOTOR

TYPE

HL, HLS

CAST IRON FRAME

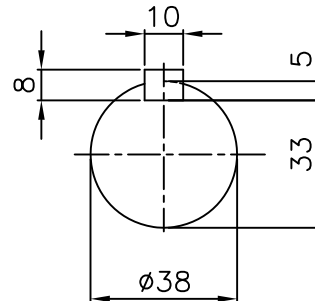
Exd II



NOTE

1. TOLERANCE :

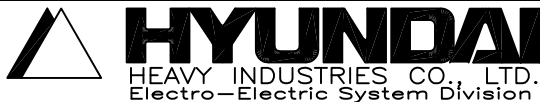
FLANGE HOLES	$\phi 15 \begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
RABBET DIAMETER	$\phi 230 \begin{smallmatrix} +0.014 \\ -0.011 \end{smallmatrix}$
SHAFT DIAMETER	$\phi 38 \begin{smallmatrix} +0.018 \\ +0.002 \end{smallmatrix}$
KEYWAY WIDTH	$10 \begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEYSEAT DEPTH	$5 \begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$



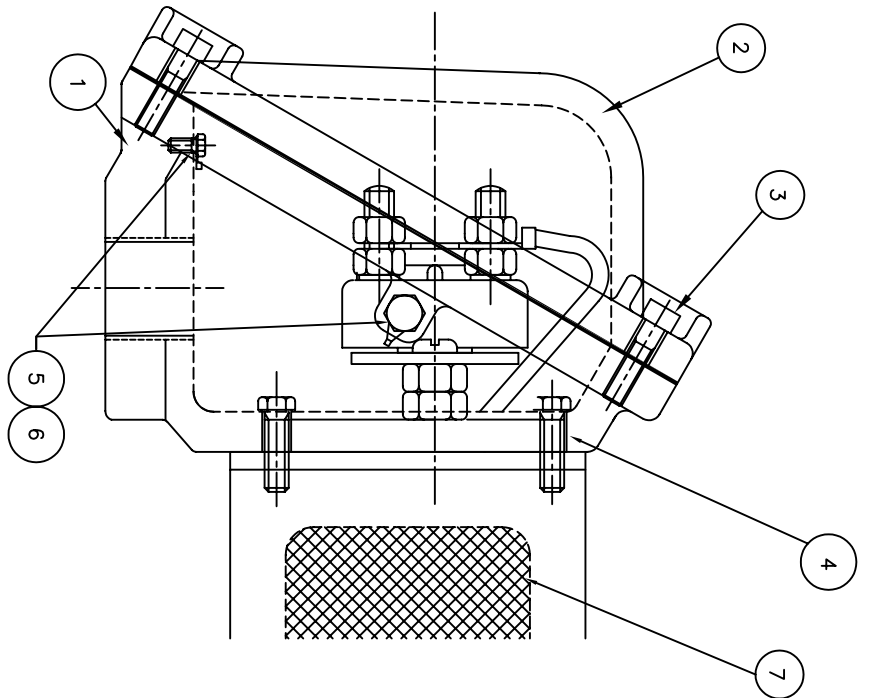
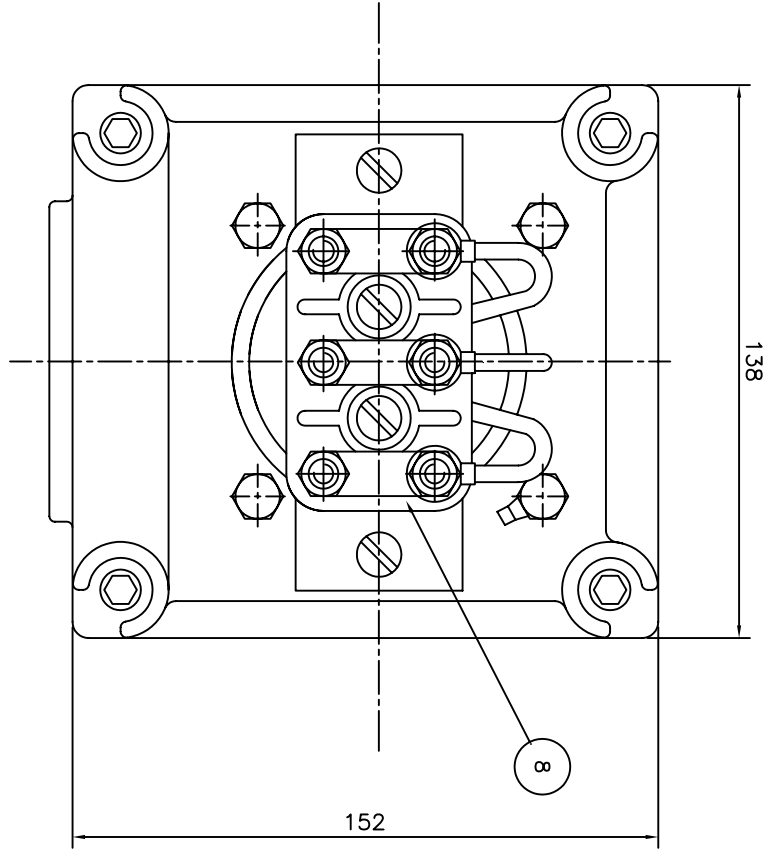
APPD BY	J. H. KIM	UNIT	mm
CHKD BY	Y. S. KIM	SCALE	1/6
CHKD BY	S. H. KO	PROJEC'N	3rd Angle
DSND BY	I. K. KIM	DATE	2002.12.07

SUBJECT	KS 132M	CAD PROJ \ FILE	XSDNKS\B2062AA04
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TITLE	OUTLINE		
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REF. NO	B2062AA04	Sheet No.	of
DWG NO	227B2062AA04	Revision No.	0



Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
1	TERMINAL BLOCK	D4C29C					8
1	SEALING COMPOUND	CU					7
2	GRD. TERMINAL LUG	S45C					6
2	GRD. BOLT	S45C					5
4	T/B + FRAME BOLT	S45C					4
4	T/B + COVER BOLT	S45C					3
1	TERMINAL BOX COVER	FC15					2
1	TERMINAL BOX ASSEMBLY	FC15					1

APPD BY	UNIT	MM	SUBJECT	IEC100-32FR d2G4	CAD PROJ. FILE
CHKD BY	SCALE	N/S			XSMOUT\7B1468LC
CHKD BY	PROJEC'N	3*45 (3rd Angle)	TITLE	MAIN TERMINAL BOX	
DSND BY	DATE	99.2.2	REF. NO	7B1469LC	Sheet No. of

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

APPD BY	UNIT	MM	SUBJECT	IEC100-32FR d2G4	CAD PROJ. FILE
CHKD BY	SCALE	N/S			XSMOUT\7B1468LC
CHKD BY	PROJEC'N	3*45 (3rd Angle)	TITLE	MAIN TERMINAL BOX	
DSND BY	DATE	99.2.2	REF. NO	7B1469LC	Sheet No. of



DWG NO	227B1469LC	Revision No.	0
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