

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	HLP-45/2		Number of Poles	2			
Enclosure(Protection)	Totally Enclosed (IP55)		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	☒ D.O.L ☐ Y- Δ			
Rated Frequency	60 Hz		Rated Voltage	440 V	380 V 220 V		
Number of Phases	3		Current	Full Load	70.1 A 81.2 A 140.2 A		
Insulation Class	☒ F ☐ B ☐ H		Locked-rotor**	800 % 800 % 800 %			
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C			50% Load 92.1 %				
Motor Location ☒ Indoor ☐ Outdoor			75% Load 93.6 %				
Altitude Less than 1000 meter			100% Load 93.6 %				
Relative Humidity Less than 80 %			Power Factor(p.u)				
Ambient Temp. 40 deg. C (Max.)			50% Load 0.865				
Duty Type Continuous (S1)			75% Load 0.890				
Service Factor 1.15			100% Load 0.900				
Mounting ☒ B3 ☐ B5 ☐ V1 ☐ B3/B5			Speed at Full Load 3560 r.p.m				
Bearing	Type	Anti-Friction		Torque			
	DE/N-DE	6212ZC3 / 6211ZC3		Full Load 12.3 kg·m			
	Lubricant	Grease(Gadus S2 V 100 2)		Locked-rotor** 150 %			
External Thrust Not applicable			Breakdown** 200 %				
Coupling Method ☒ Direct ☐ V-Belt			Moment of Inertia (J)				
Shaft Extension ☒ Single ☐ Double			Load(Max.) 4.800 kg·m²				
Terminal Box	Main	☐ Steel ☒ Cast Iron		Motor 0.208 kg·m²			
	Aux.	☐ Yes ☒ No		Sound Pressure Level (No-load & mean value at 1m from motor)			
	Location	Refer to Outline Drawing		87 dB(A)			
Application			Vibration 2.2 mm/sec (r.m.s)				
Area classification Non-Hazardous			Permissible number of consecutive starts Cold 3 times				
Type of Ex-Protection Not applicable			Hot 2 times				
Applicable Standard KS,IEC, NEMA MG1 Part30(Vpeak)			Paint Munsell No. 4.4PB5.5/5.6(VL-451)				
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3		LM-T1207B3CL001	320 kg	
			B5		LM-T1207B5CL001	330 kg	
			V1		LM-T1207V1CL001	330 kg	
			B3/B5		LM-T1207B4CL001	330 kg	
			Main T-Box Ass'y			3M-145864	
SPARE PARTS			REMARK				
			Premium Efficiency				
			*. For use on PWM VFD 10:1VT, 3:1CT@1.0S.F&F Temp. rise				
			Date	DSND	CHKD	CHKD	APPD
			2015-09-05	R.G. KIM	-	O.J. KIM	S.H. GO

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.

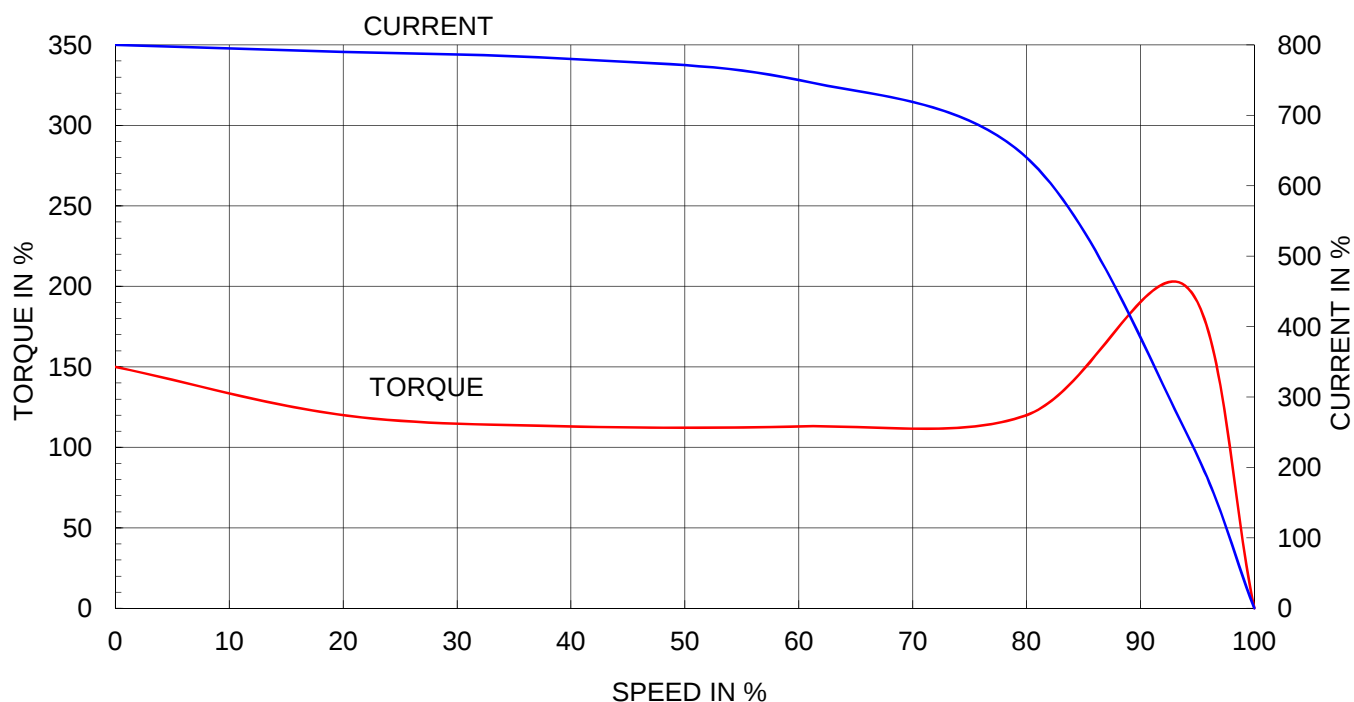
* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

** 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.

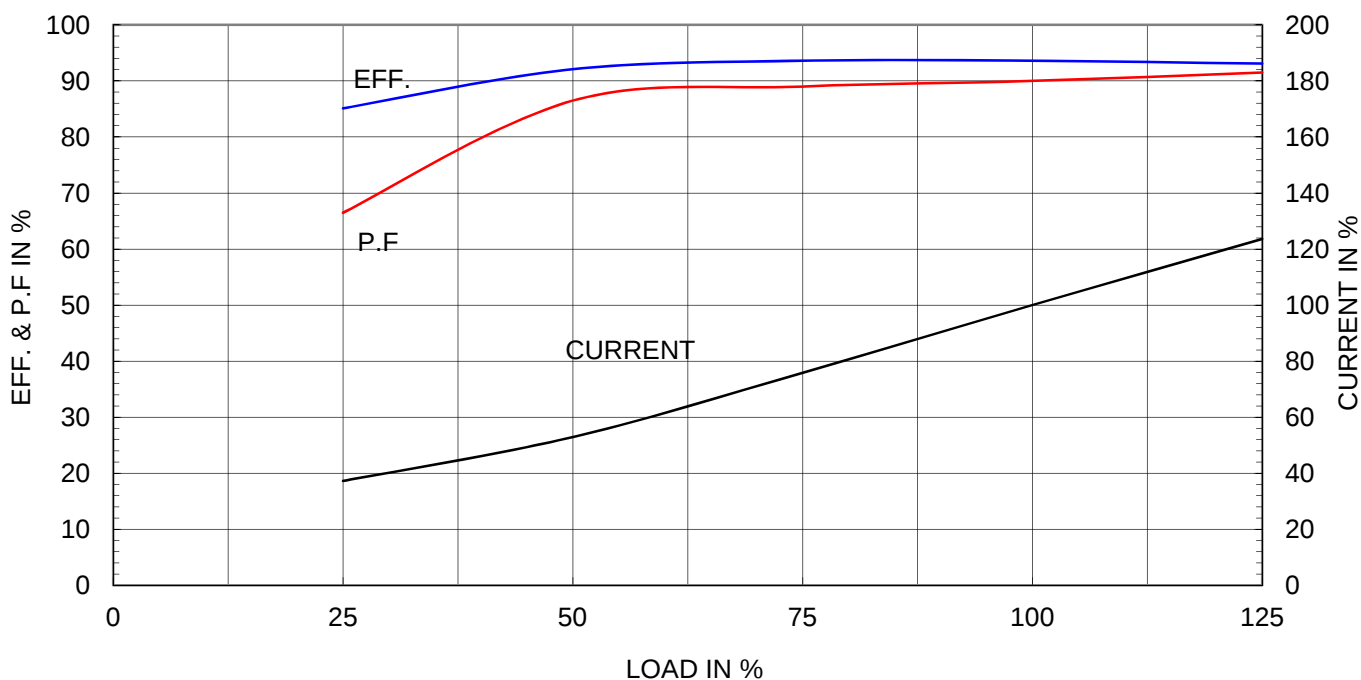
Type	:	HLP-45/2
Full Load Torque	:	12.3 Kg.m
Motor moment of Inertia (J)	:	0.208 Kg.m ²
Load moment of Inertia (J)	:	4.800 Kg.m ²

45 kW		2 P		60 Hz	
Speed at Full Load :				3560 RPM	
Rated Voltage	440V	380V	220V		
Full Load Current	70.1A	81.2A	140.2A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE





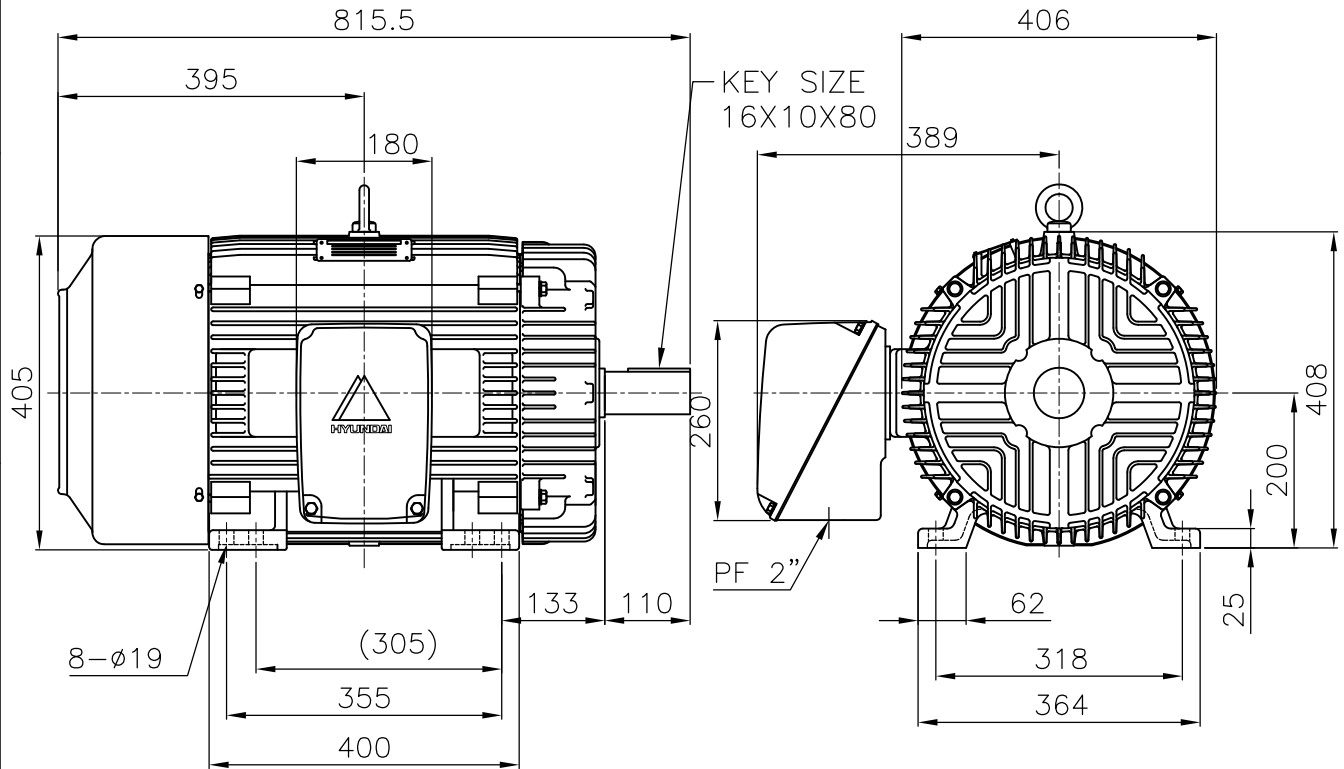
TEFC

THREE PHASE INDUCTION MOTOR

TYPE

HL, HS

CAST IRON FRAME

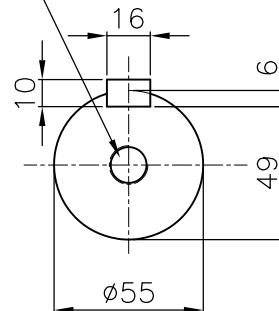


NOTE

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 ^{+0.2} ₊₀

M16XP2.00
DP35.00



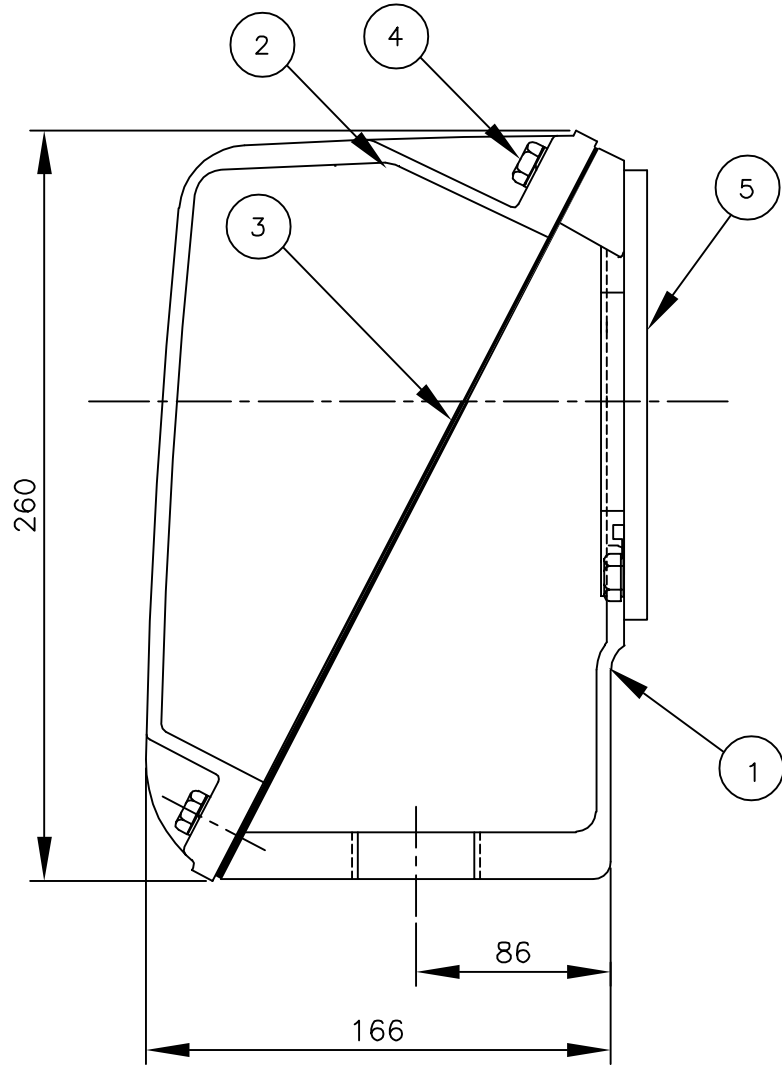
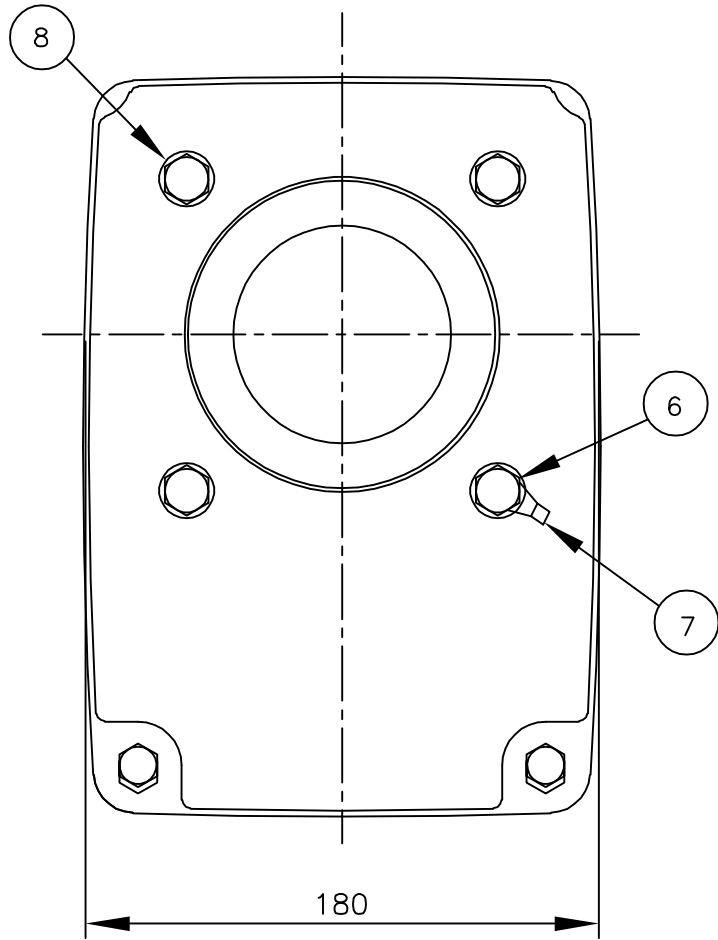
* CAST IRON CONDUIT BOX

APPD BY	J. H. KIM	UNIT	mm	SUBJECT	KS 200LL 2P	CAD PROJ \ FILE
CHKD BY	K. S. LEE	SCALE	1/10			XSDNKS\B2000AB09
CHKD BY	I. K. KIM	PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND BY	S. M. KIM	DATE	2002.10.27			
				REF. NO	B2000AB11	Sheet No. of
				DWG NO	LM-T1207B3CL001	Revision No. 0

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허가없이 복사할 수 없음 (취급주의)

HYUNDAI
HEAVY INDUSTRIES CO., LTD.



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 GROUND	CU	T1.6	1
8	WASHER	S45C	M8 X L10	4

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY	1-4	±0.1	6-30	±0.5
							4-18	±0.2	30-120	±0.8
							18-63	±0.3	120-315	±1.2
							63-250	±0.5	315-1000	±2.0
							250-	±0.8	1000-	±3.0

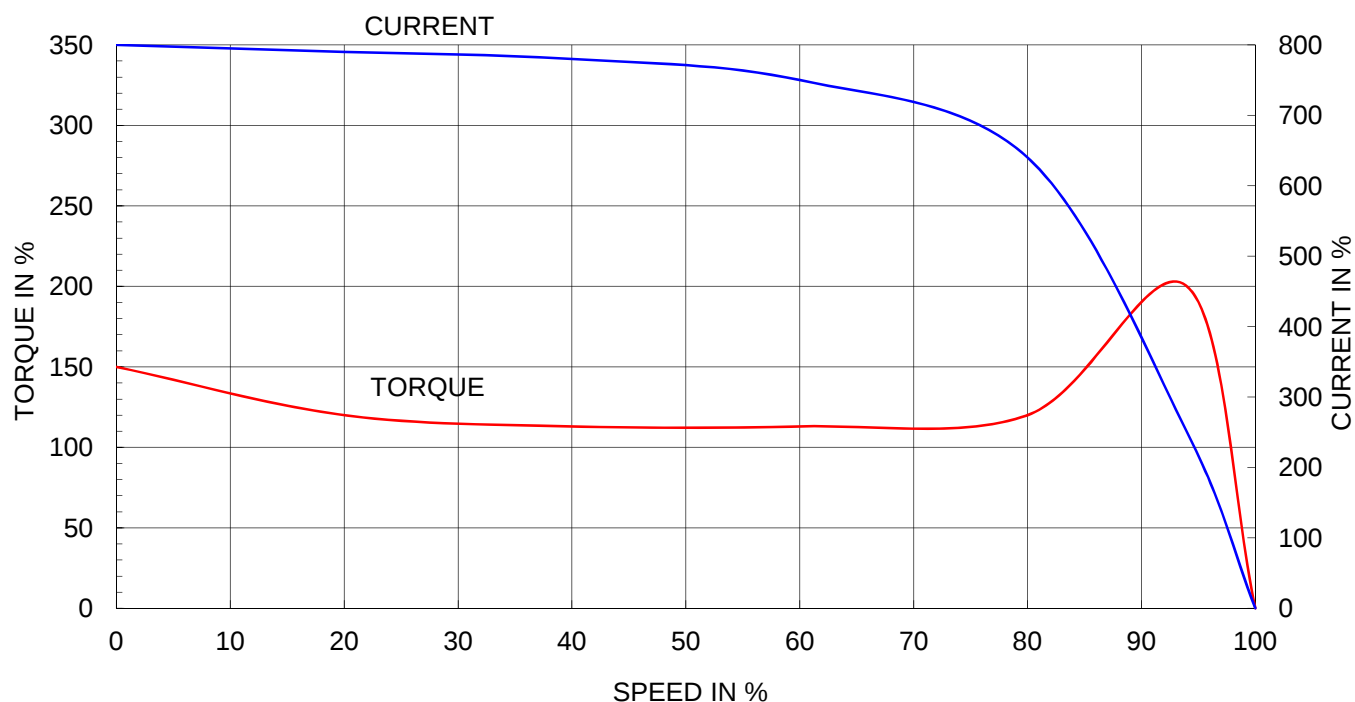
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	강경중	UNIT	mm	SUBJECT	IEC-Fr.200	DWG SIZE	
CHKD BY	이노덕	SCALE	1/2			A3 (1:2)	
CHKD BY	김인규	PROJEC'N	3각법(3rd Angle)	TITLE	Main Terminal Box Assembly		
DSND BY	김은성	DATE	2011-08-30	REF. NO	227B8003CB5	Sheet No.	of
				DWG NO	3M-145864	Revision No.	1

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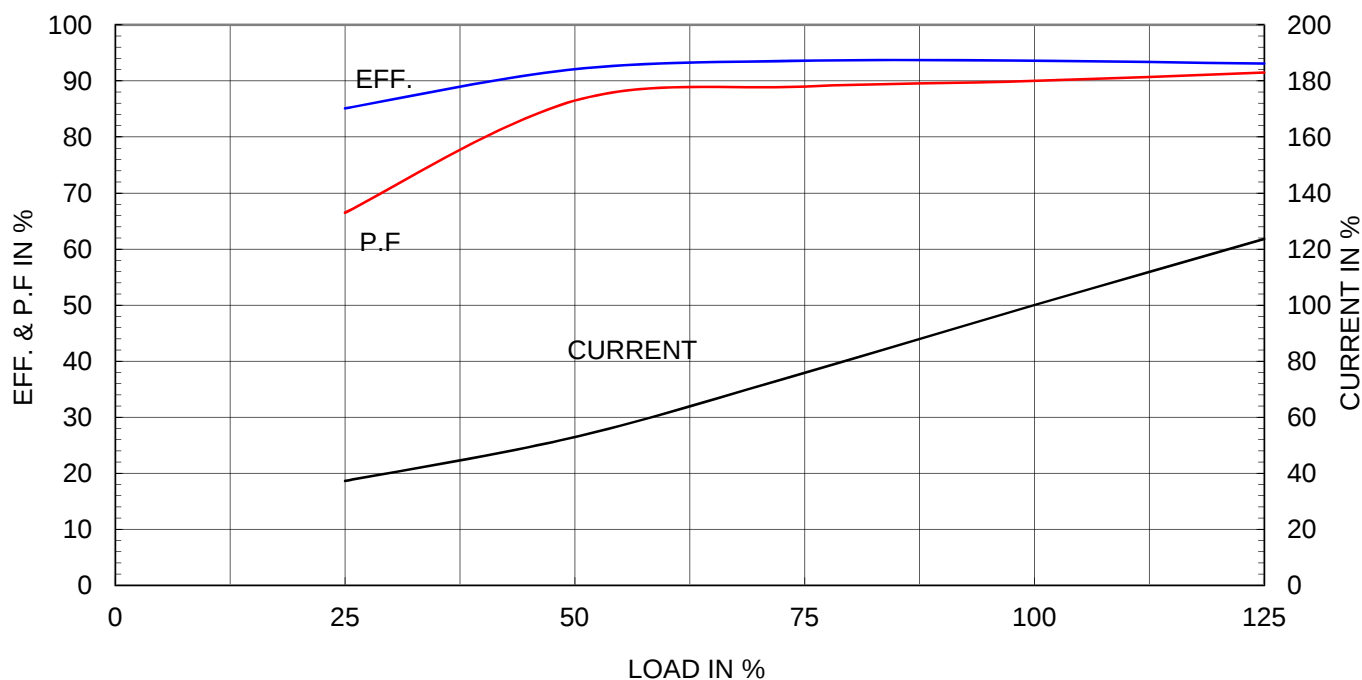
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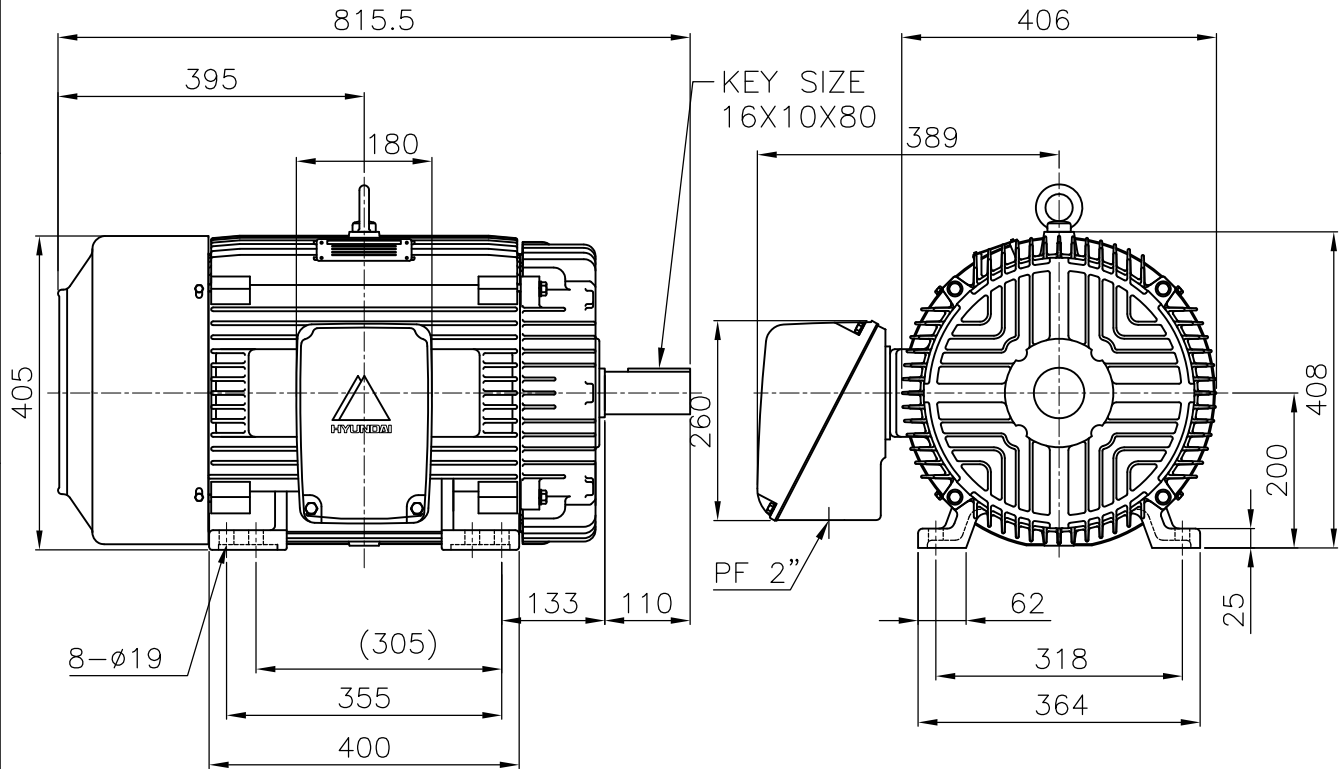
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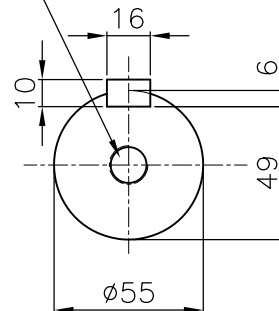


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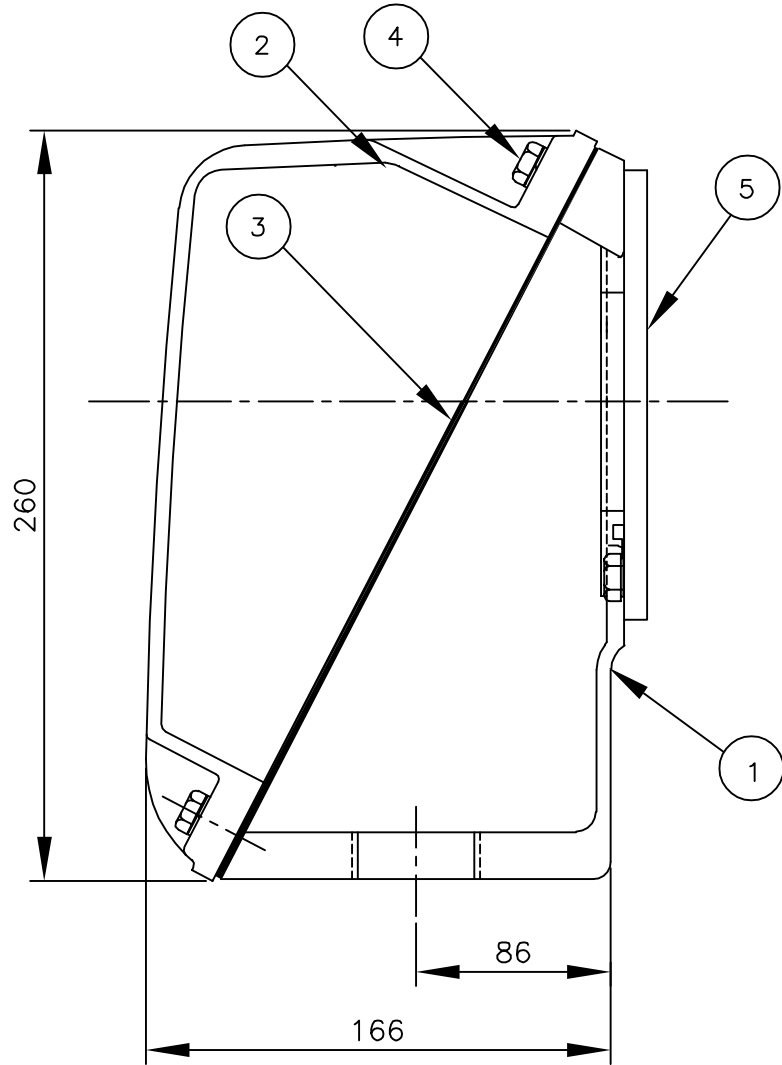
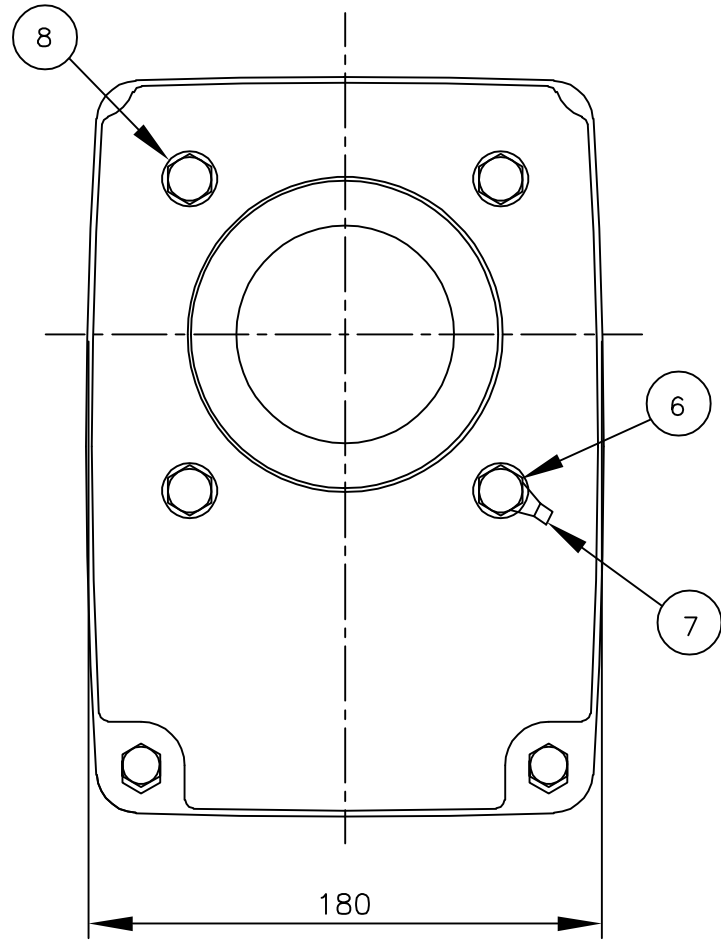
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DSND BY	S. M. KIM	DATE	2002.10.27			
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	12.01.27	CABLE 및 TAP 표시 삭제.	김양규	김옥진	김진홍	강경중		

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