

MODEL NUMBER	HHI25-18-284T		
HORSEPOWER	25		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	284T		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1775 RPM		
SERVICE FACTOR	1.15 SF at 40° C / 1.0 SF at 65° C		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 230 / 460	60.6 / 30.3 A Usable On 208 V At 67.0 A		
LOCKED ROTOR CURRENT (% Full Load)	680 / 680 %		
NEMA CODE LETTER	H		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	93.6 %	82.0 %
	75 %	93.8 %	79.5 %
	50 %	92.9 %	73.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	73.4 lb.ft.	170 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>		<u>MOTOR</u>
	327.481 lb.ft. ²		3.940 lb.ft. ²
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	75 dB(A)		
NUMBER OF STARTS (Hot / Cold)	2 Hot / 3 Cold		
MAX. AMBIENT TEMPERATURE	40° C at 1.15 SF / 65° C at 1.0 SF		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DRIVE-END BEARING	6310ZC3		
OPPOSITE DRIVE-END BEARING	6310ZC3		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	380 lbs.		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D		
INVERTER RATING	10:1 CT / 20:1 VT - Meets NEMA MG1 Part 31		
SPECIFICATION - In Accordance With	NEMA, CSA		

**TEFC****TYPE**

LP, JP

THREE PHASE INDUCTION MOTOR

CAST IRON FRAME

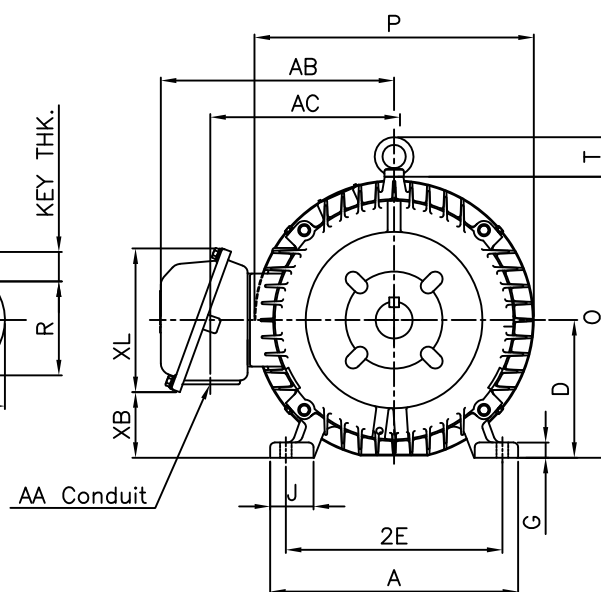
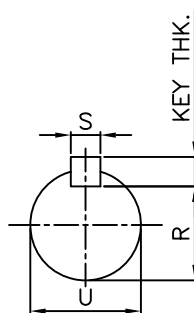
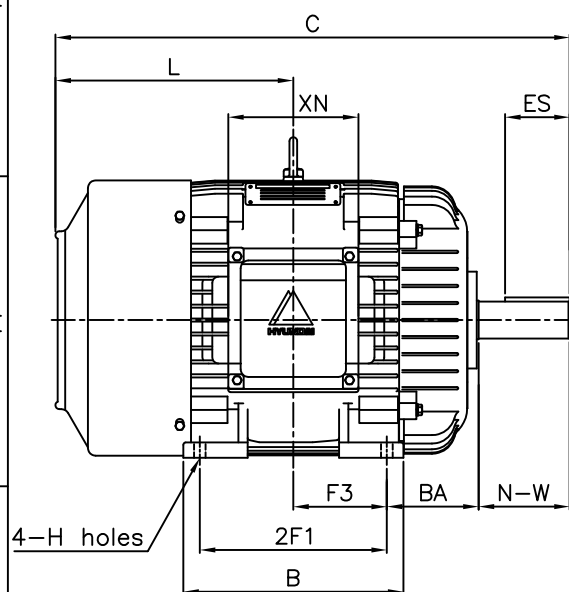
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING

**DIMENSIONS**

M O U N T I N G									CONDUIT BOX						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	284T
12.60	11.18	11.00	9.50	-	4.75	0.78	2.20	0.53	1.50	12.43	9.64	3.42	7.56	6.61	380

O V E R A L L							S H A F T					KEY THK.	BEARING	
BA	C	D	L	O	P	T	U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
									R	ES	S			
4.75	26.21	7.00	12.09	14.28	14.19	2.01	1.875	4.62	1.591	3.28	0.500	0.500	6310ZC3	6310ZC3

NOTE

- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.001inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

APPD	BY	J. H. KIM	UNIT	INCH	SUBJECT	NEMA 284T	CAD PROJ \ FILE
CHKD	BY	K. S. LEE	SCALE	1/10			XSMOUTIN\A1109AA
CHKD	BY		PROJEC'N	3rd Angle	TITLE	OUTLINE	
DSND	BY	KIM IN KYU	DATE	2010.12.31			

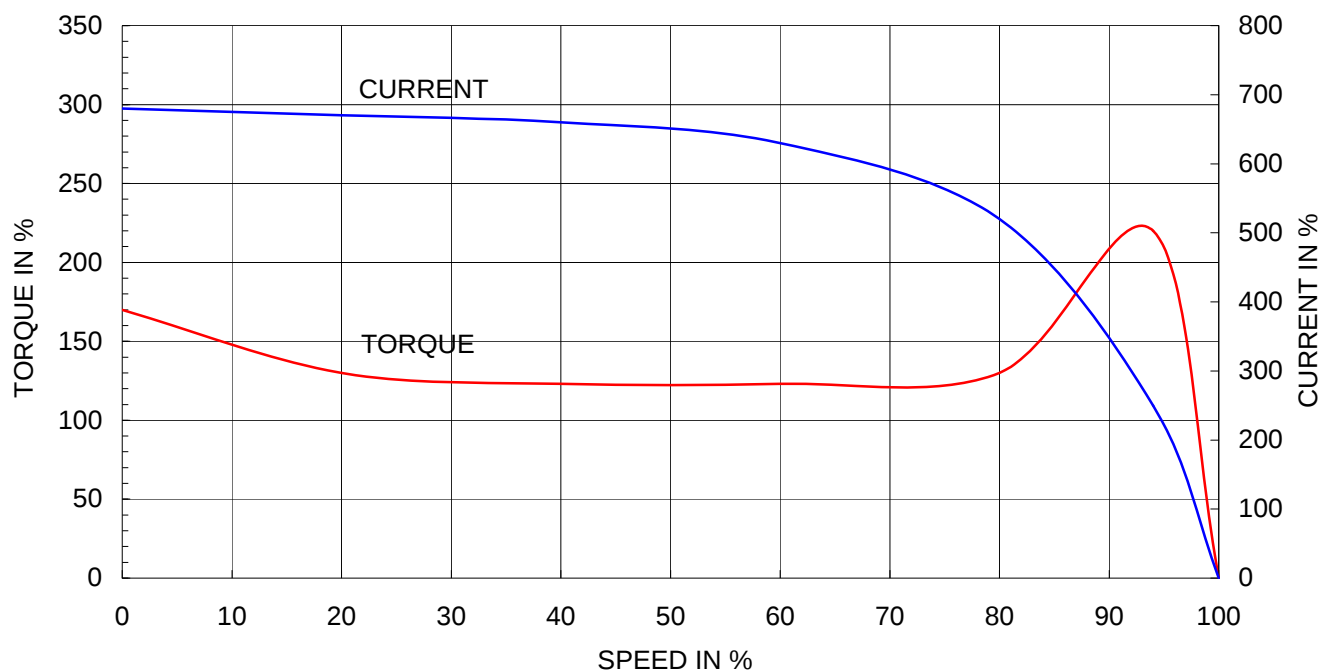
OUTLINE

REF. NO	A1109AA	Sheet No.	of
DWG NO	350A1109AA	Revision No.	0

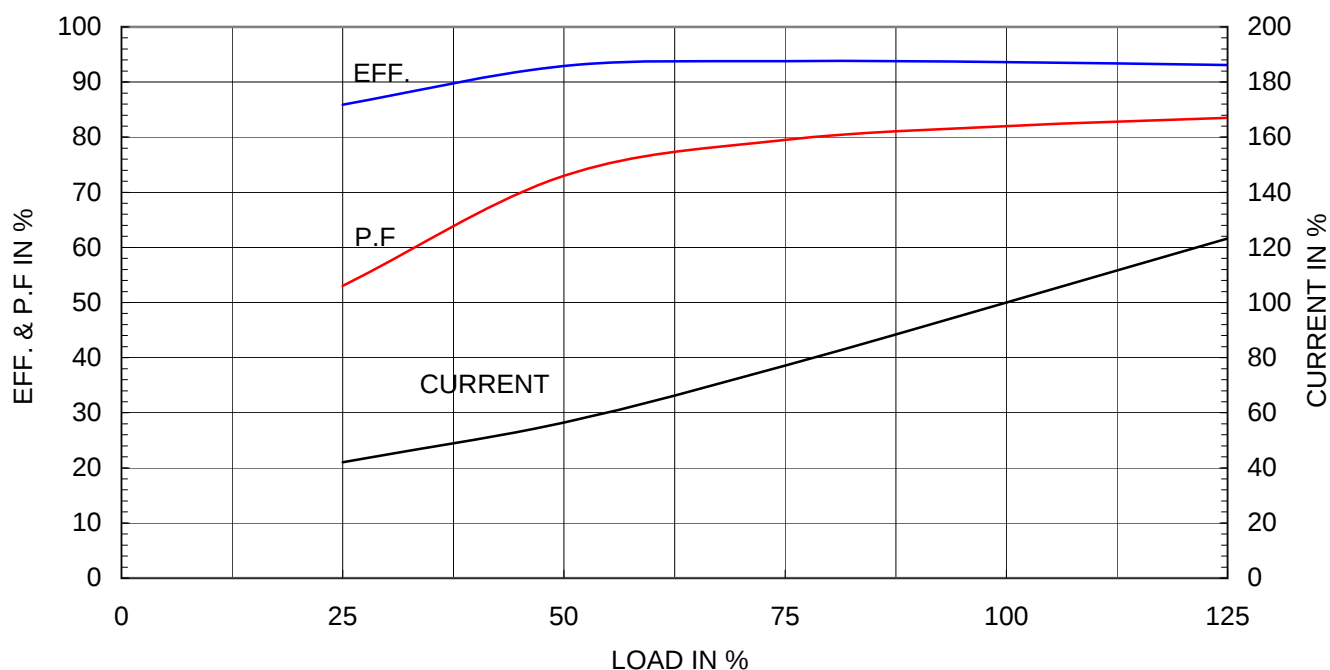
Type	:	PLP
Full Load Torque	:	73.4 lb.ft
Motor moment of Inertia (J)	:	3.940 lb.ft ²
Load moment of Inertia (J)	:	327.481 lb.ft ²

18.5 kW		25 HP		60 Hz	
4 P		Rated Speed : 1775 RPM			
Rated Voltage	575V	460V	230V		
Full Load Current	24.2A	30.3A	60.6A		

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



Type : PLP25-18-284T

FULL LOAD TORQUE : 73.4 lb.ft

J OF LOAD : - lb.ft²

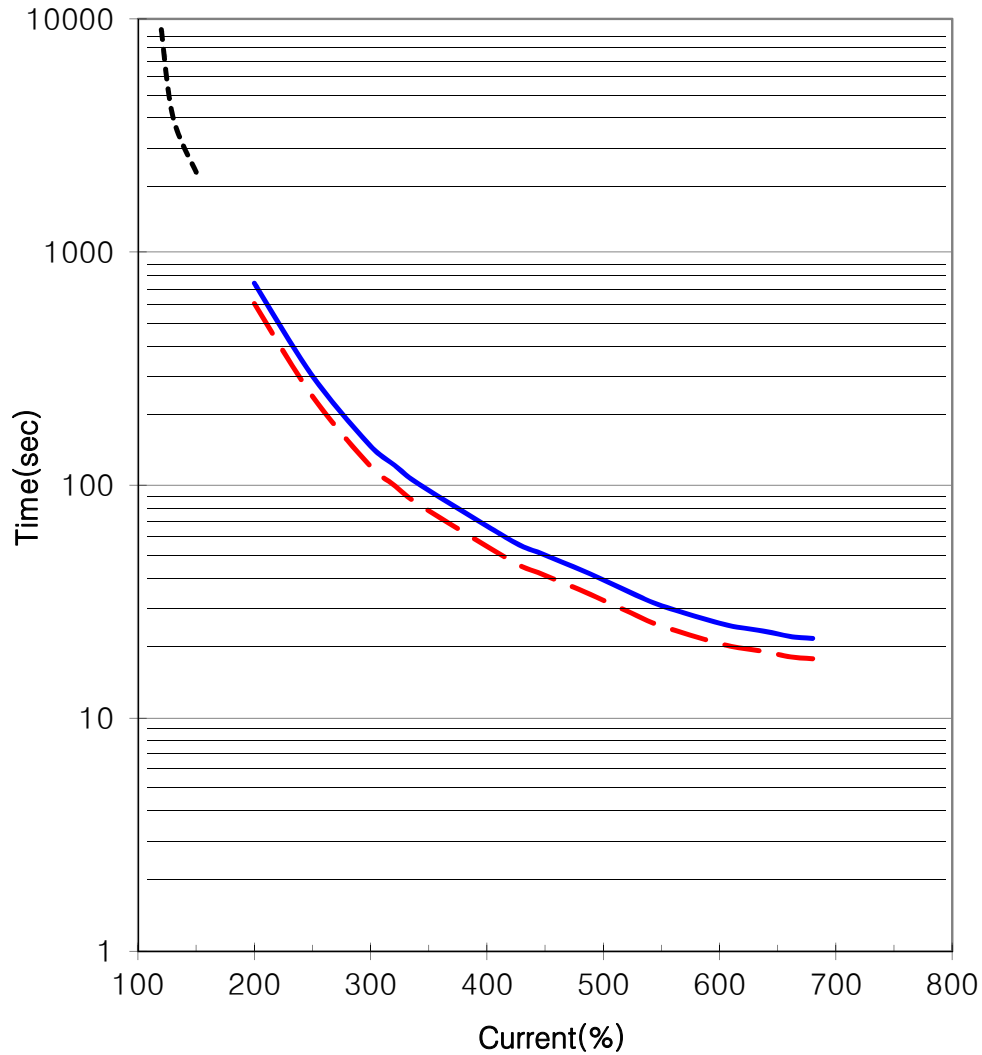
J OF MOTOR : 3.9 lb.ft²

25 HP 4 P 60 Hz

RATED SPEED : 1775 rpm

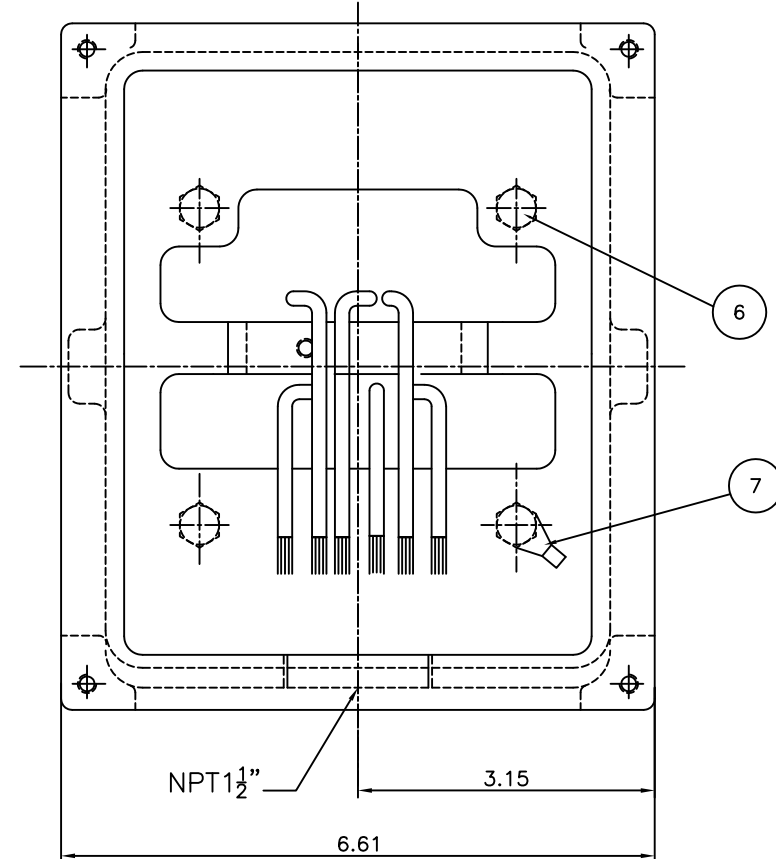
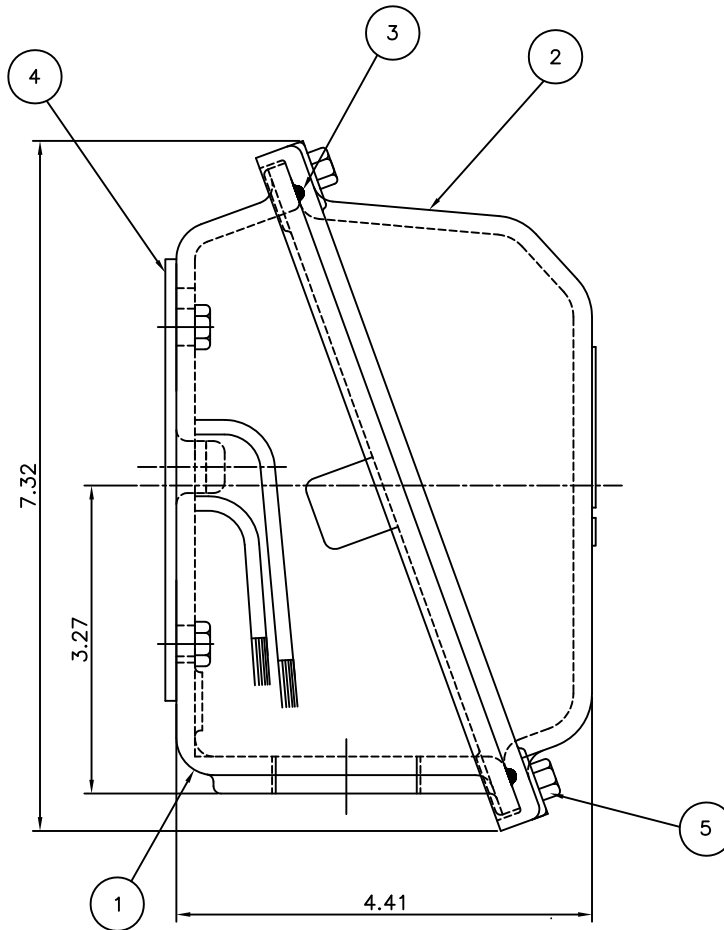
VOLTAGE 460 V 575 V

RATED CURRENT 30.3A 24.2A



— THERMAL LIMIT CURVE AT COLD CONDITION
 - - THERMAL LIMIT CURVE AT HOT CONDITION

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	18 sec. at Hot condition
- at 80% of rated voltage starting	22 sec. at Cold condition



PT	DESCRIPTION	MATERIAL	DIMENSION	Q'TY
1	CONDUIT BOX	FC15	--	1
2	CONDUIT BOX COVER	FC15	--	1
3	O-RING / COVER	EPDM	ø4	1
4	BOX GASKET	NBR	--	1
5	COVER+BOX HEX BOLT	S45C	M6 X L20	4
6	BOX+FRAME HEX BOLT	S45C	M8 X L20	4
7	GROUND TERMINAL LUG	CU	--	1

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	KIM.Y.S	UNIT	INCH	SUBJECT	NEMA284/286	CAD PROJ FILE	227B8008NA1
CHKD BY	KO.S.H	SCALE	1:1	TITLE	TERMINAL BOX ASSEMBLY		
CHKD BY	---	PROJEC'N	3 각법 (3rd Angle)	REF. NO	227B8008NA2	Sheet No.	of
DSND BY	Y.J.HWANG	DATE	2005.02.16	DWG NO	227B8008NA2	Revision No.	0

