

MODEL NUMBER	HHI20-18-256TC-F2		
HORSEPOWER	20		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	230 / 460 V / 3		
FRAME	256TC		
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	49.6 / 24.8 A Usable On 208 V At 54.8 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 %	93.0 %	81.5 %
	75 %	93.0 %	78.0 %
	50 %	92.0 %	70.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	59.5 lb.ft.	200 %	240 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	303.750 lb.ft. ²	2.635 lb.ft. ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	73 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	6309ZC3		
OPPOSITE DRIVE-END BEARING	6309ZC3		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F2 (F1 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	300 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		



CC 038A





TEFC

THREE PHASE INDUCTION MOTOR

TYPE

LP, JP

CAST IRON FRAME

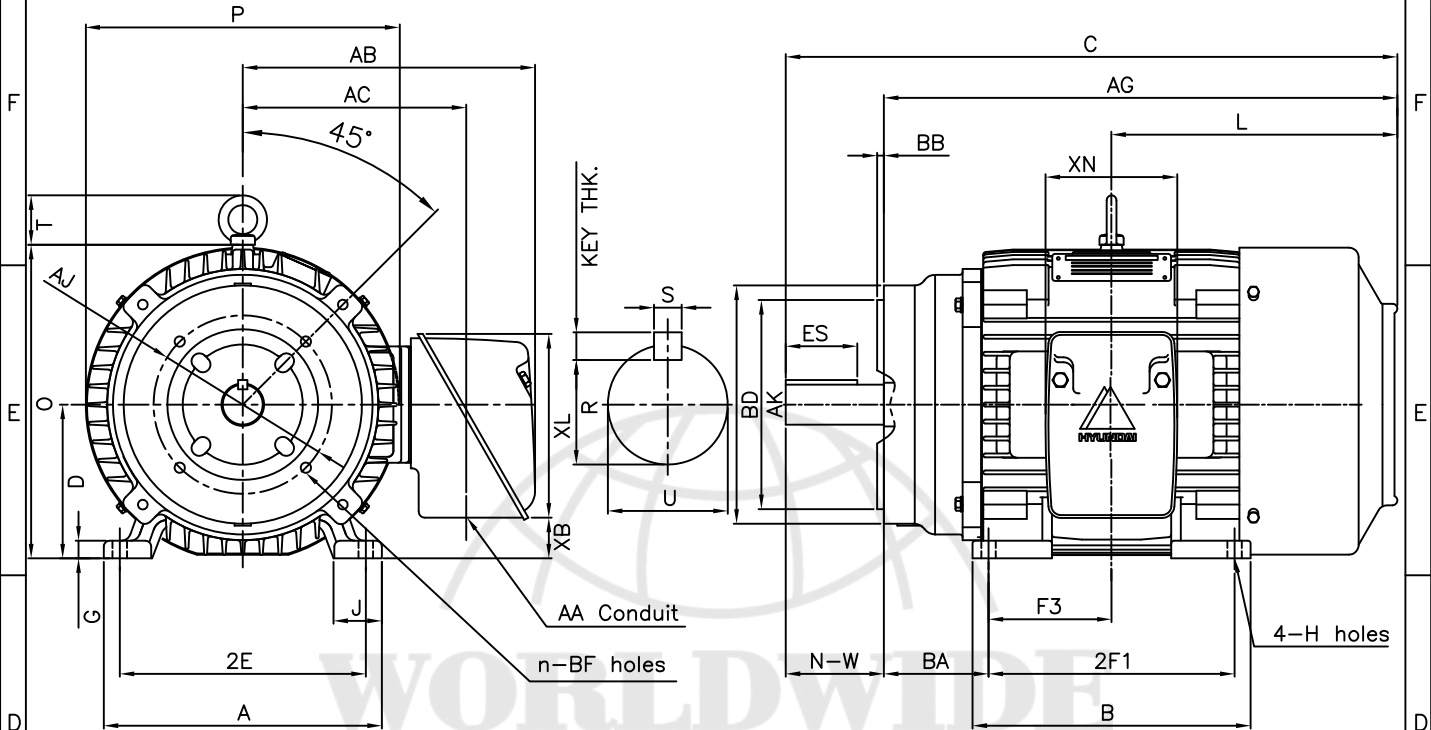
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



DIMENSIONS

F L A N G E						M O U N T I N G								
AJ	AK	BD	BB	BF	n	A	B	2E	2F1	2F2	F3	G	J	H
7.25	8.50	9.68	0.25	1/2-13	4	11.30	11.30	10.00	10.00	-	5.00	0.72	1.93	0.53

C O N D U I T B O X						O V E R A L L								APPROX. WGT.(LB)
AA	AB	AC	XB	XL	XN	AG	BA	C	D	L	O	P	T	
1.25	11.88	9.08	2.63	7.56	6.61	20.86	4.25	24.86	6.25	11.61	12.75	12.76	2.01	300

S H A F T					KEY THK.	B E A R I N G	
U	N-W	KEYWAY				DRIVE END	OPP. DRIVE END
		R	ES	S			
1.625	4.00	1.416	2.91	0.375	0.375	6309ZC3	6309ZC3

NOTE

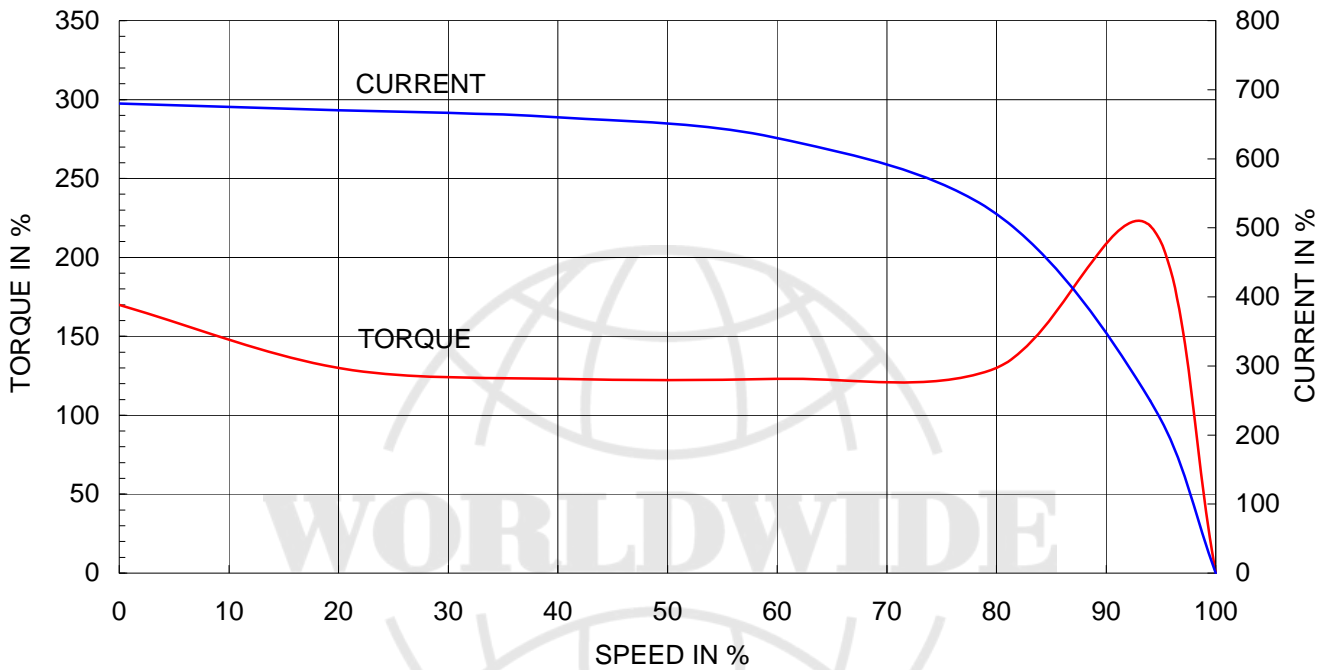
- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.0005inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

APPD BY	KIM.Y.S	UNIT	INCH	SUBJECT	NEMA 256TC(KIT)	CAD PROJ \ FILE
CHKD BY	KO.S.H	SCALE	N/S			XSMOUTN\A1308AA
CHKD BY		PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	Y.J.HWANG	DATE	2004.11.19			
				REF. NO	A1308AA	Sheet No. of
				DWG NO	350A1308AA	Revision No. 0

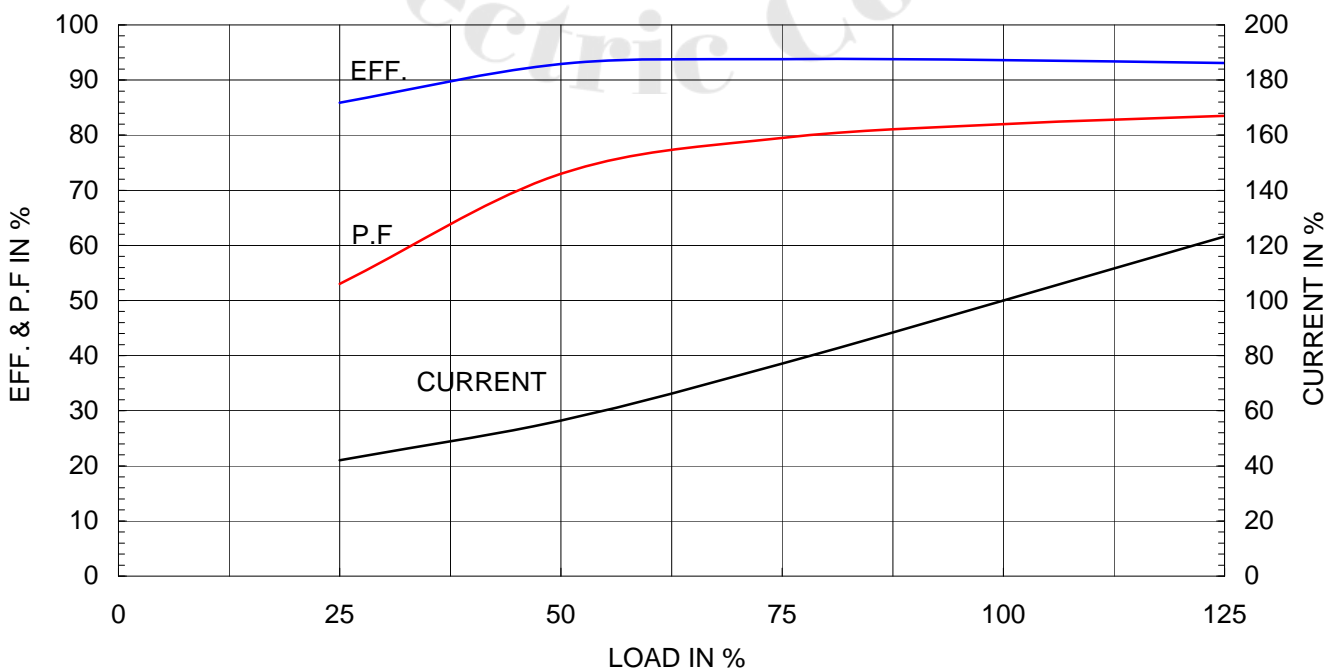
Type	: PLP
Full Load Torque	: 73.4 lb.ft
Motor moment of Inertia (J)	: 3.940 lb.ft ²
Load moment of Inertia (J)	: 327.481 lb.ft ²

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

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



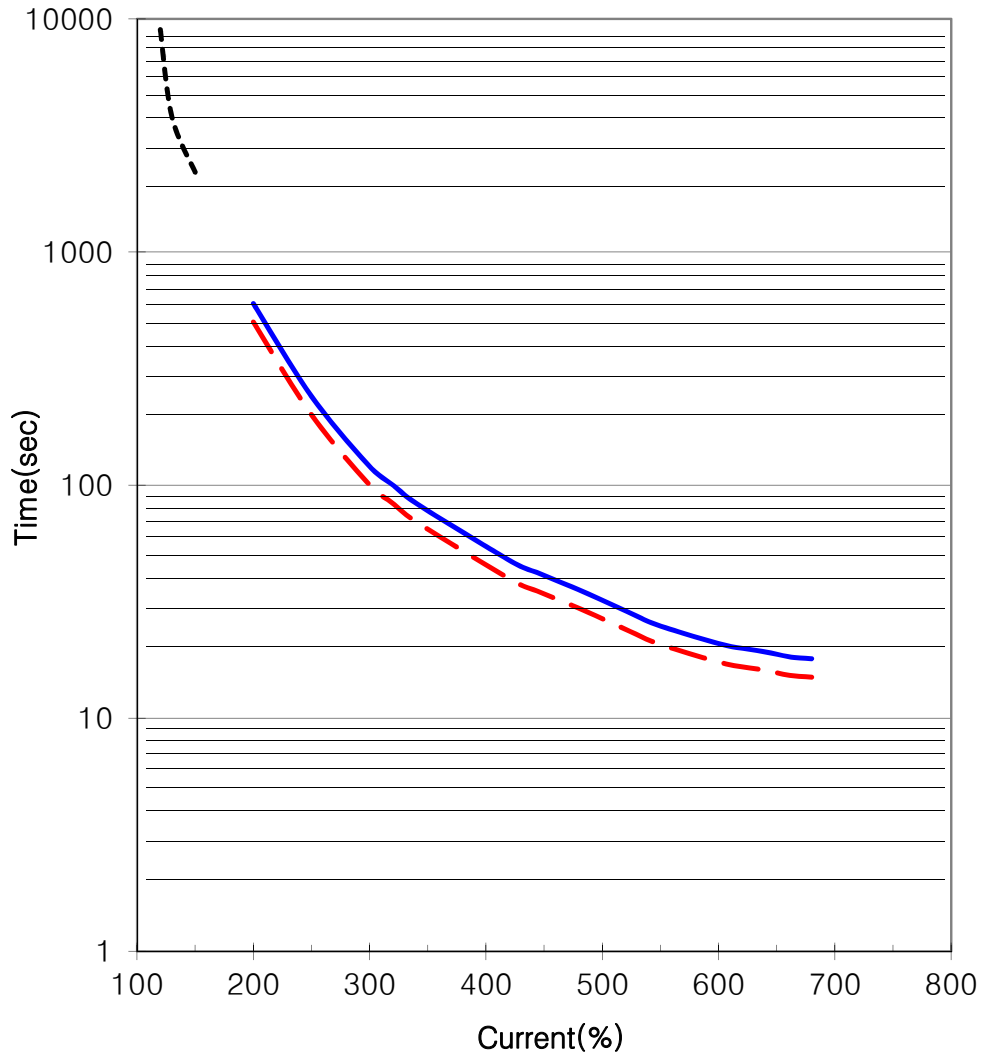


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP20-18-256TC-F2

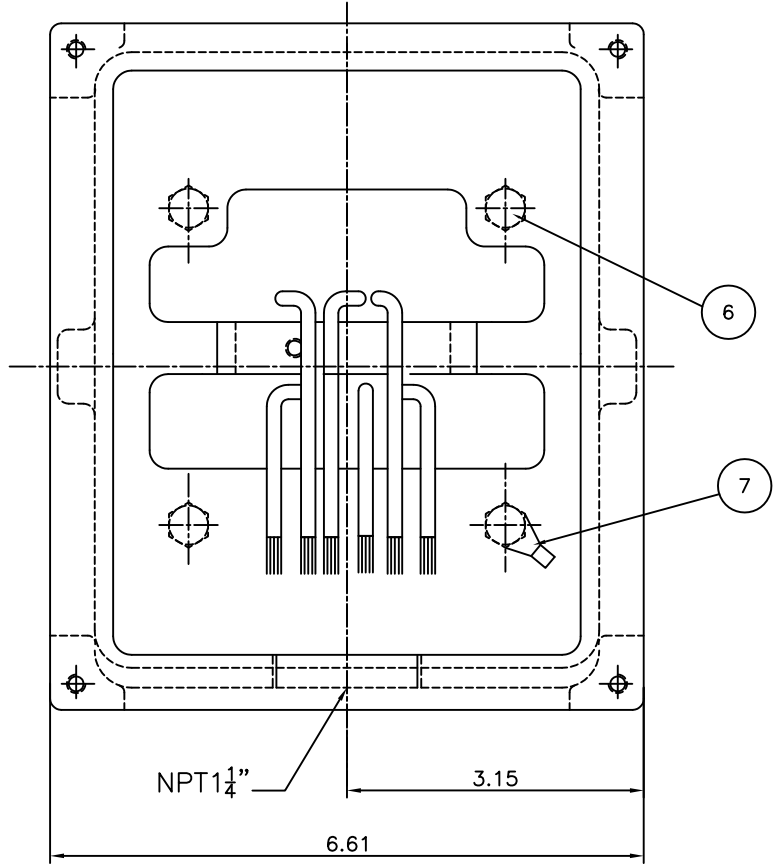
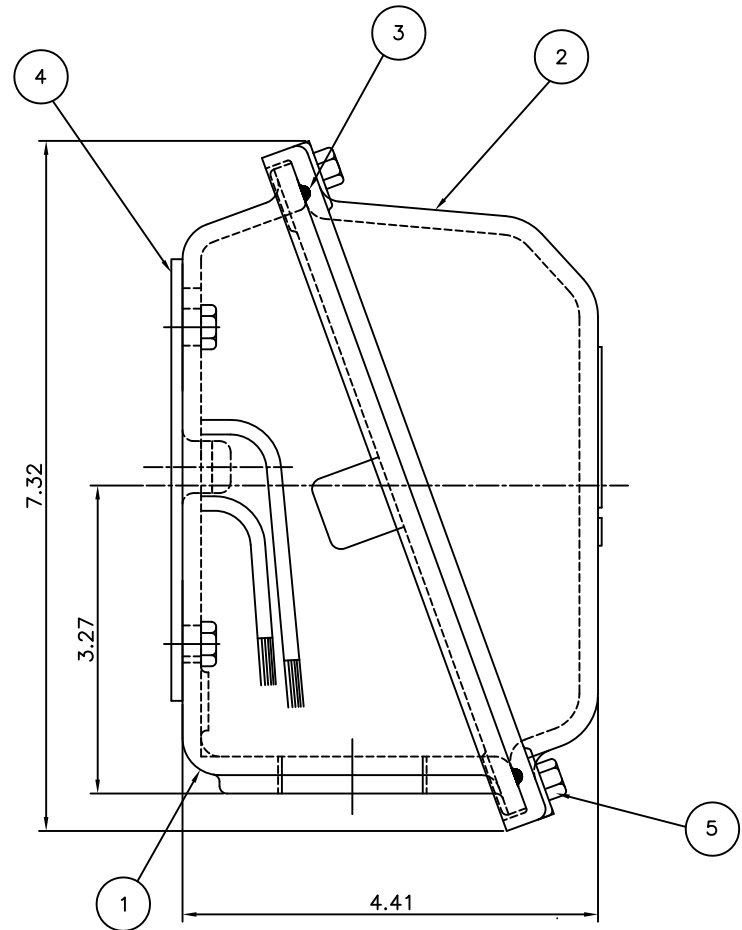
Type :	PLP20-18-256T	20	HP	4	P	60	Hz
FULL LOAD TORQUE :	59.5	lb.ft	RATED SPEED :		1775 rpm		
J OF LOAD :	-	lb.ft ²	VOLTAGE		460 V	575 V	
J OF MOTOR :	2.6	lb.ft ²	RATED CURRENT		24.8A	19.8A	



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

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	15 sec. at Hot condition
- at 80% of rated voltage starting	18 sec. at Cold condition

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PT	DESCRIPTION	MATERIAL	DIMENSION	Q'TY
1	CONDUIT BOX	FC15	--	1
2	CONDUIT BOX COVER	FC15	--	1
3	O-RING / COVER	EPDM	φ4	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	NEMA254/256	CAD PROJ FILE	
CHKD BY	KO.S.H	SCALE	1:1	227B8008NA1			
CHKD BY	---	PROJEC'N	3각법(3rd Angle)	TITLE			
DSND BY	Y.J.HWANG	DATE	2005.02.16	TERMINAL BOX ASSEMBLY			
REF. NO					227B8008NA1	Sheet No. of	
DWG NO					227B8008NA1	Revision No. 0	



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