


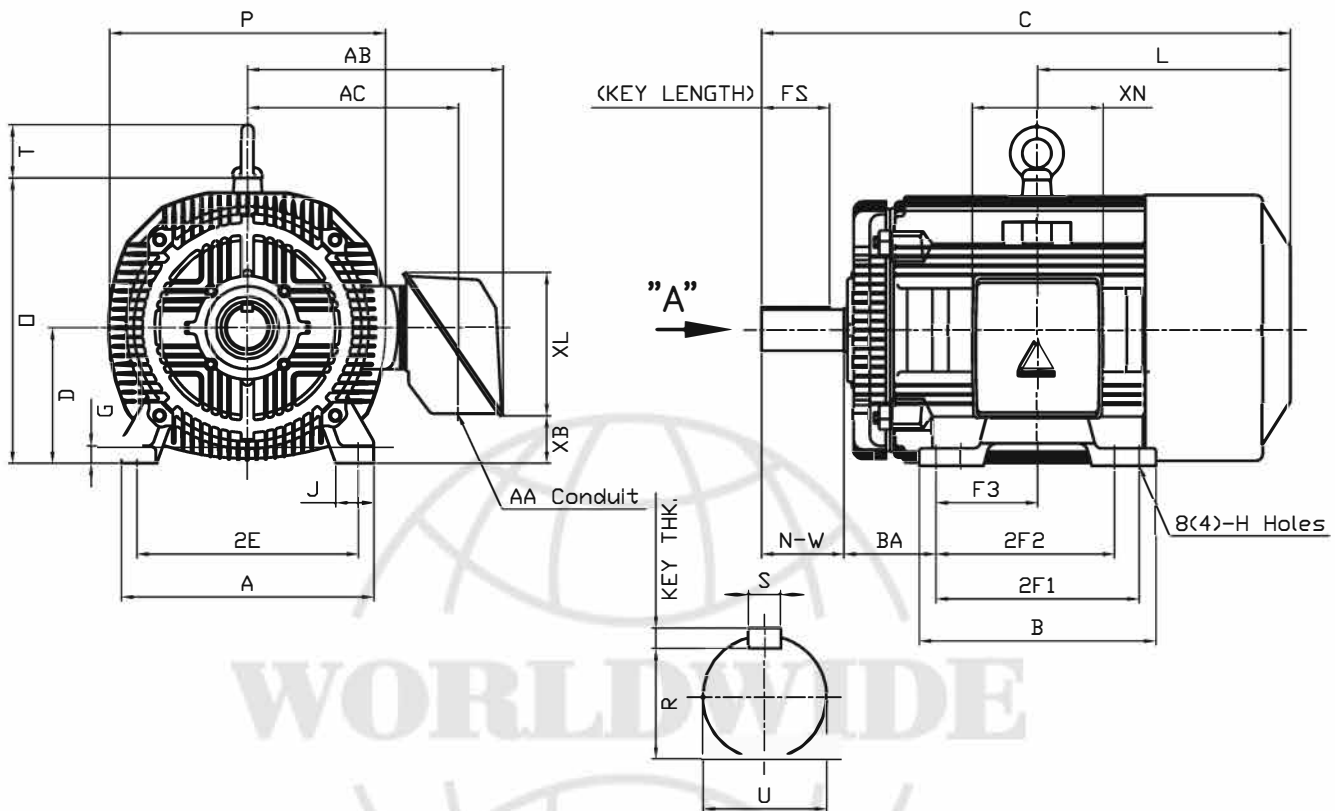
MODEL NUMBER	HHI150-18-445T-F2		
HORSEPOWER	150		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	460 V / 3		
FRAME	445T		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP55		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1785 RPM		
SERVICE FACTOR	1.15 SF at 40° C / 1.0 SF at 65° C		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 460	163.8 A		
LOCKED ROTOR CURRENT (% Full Load)	700 %		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	95.8 %	88.0 %
	75 %	95.9 %	86.2 %
	50 %	95.0 %	80.6 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	434.2 lb.ft.	140 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	1855.724 lb.ft. <sup>2</sup>	67.430 lb.ft. <sup>2</sup>	
SOUND PRESSURE LEVEL ( No Load 1 M From Motor)	83 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	NU318		
OPPOSITE DRIVE-END BEARING	6316C3		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F2 (F1 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	1700 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



	<h1 style="margin: 0;">T E F C</h1> <h2 style="margin: 0;">THREE PHASE INDUCTION MOTOR</h2>	<b>TYPE</b>	LP, JP Cast iron frame
FRAME SIZE	OUTPUT(HP)	POLES	Hz
445T-F2			60
			TIME RATING
			CONT



WORLDWIDE




M O U N T I N G									C O N D U I T B O X						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
20.51	19.21	18.00	16.50	(14.50)	8.248	1.42	3.07	0.81	3.00	21.26	18.03	3.83	11.65	10.63	1640

O V E R A L L								S H A F T			KEY	BEARING		
BA	C	D	L	O	P	T	U	N-W	KEYWAY			THK.	DRIVE END	OPP. DRIVE END
									R	ES	S			
7.50	45.21	11.00	20.96	23.19	22.40	4.33	3.375	8.50	2.880	6.93	0.875	0.875	6318C3 or NU318	6316C3

**NOTE**

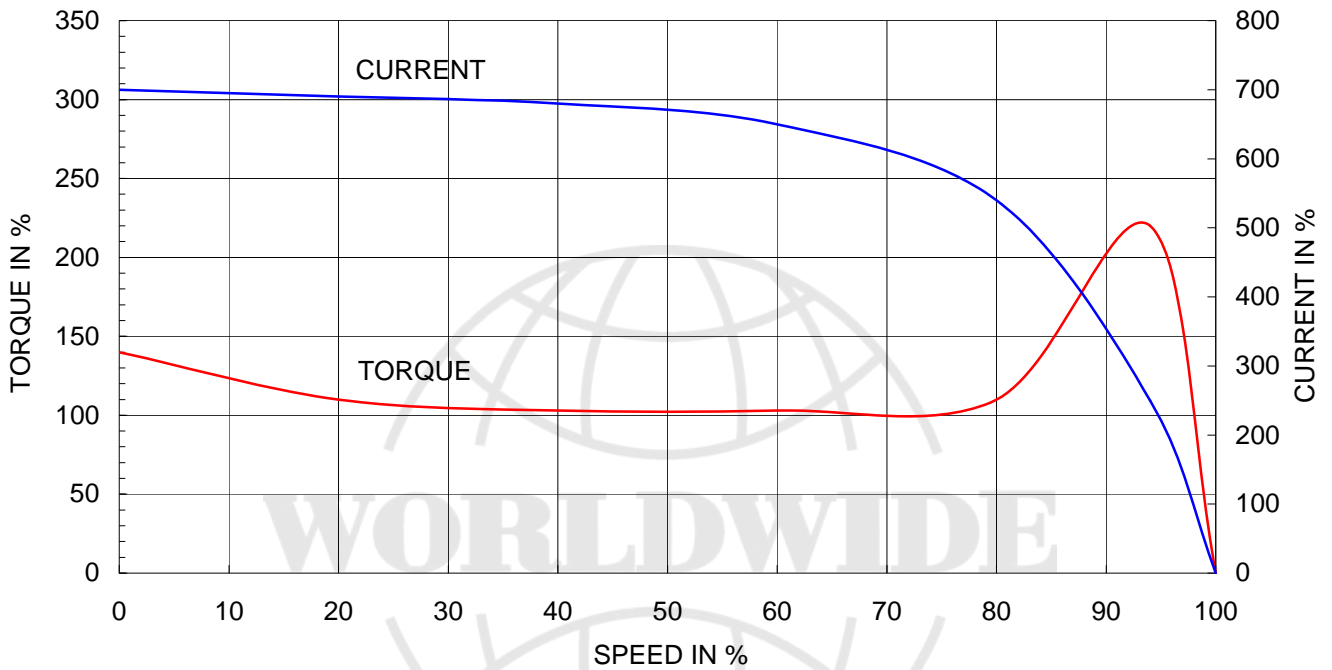
1. Dimension "D" tolerance : +0.00inch - 0.03inch (143T-365T) ; +0.000inch - 0.06inch (404T-449T)
2. Dimension "U" tolerance : +0.000inch - 0.005inch (143T-215T), +0.000inch - 0.001inch (254T-449T)
3. Dimension "R" tolerance : +0.000inch - 0.015inch

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	K.J. Kang	UNIT	INCH	SUBJECT	445T	CAD PROJ  FILE 	MMSTDMTR\A1118AA
Q.P CHK		SCALE	N/S				
CHKD BY		PROJEC'N	3 각법(3rd Angle)	<h1 style="margin: 0;">O U T L I N E</h1>			
DSND BY	N.D.Lee	DATE	2011.01.12				
				REF. NO	A1118AA	Sheet No.	of
				DWG NO	350A1118AA	Revision No.	0

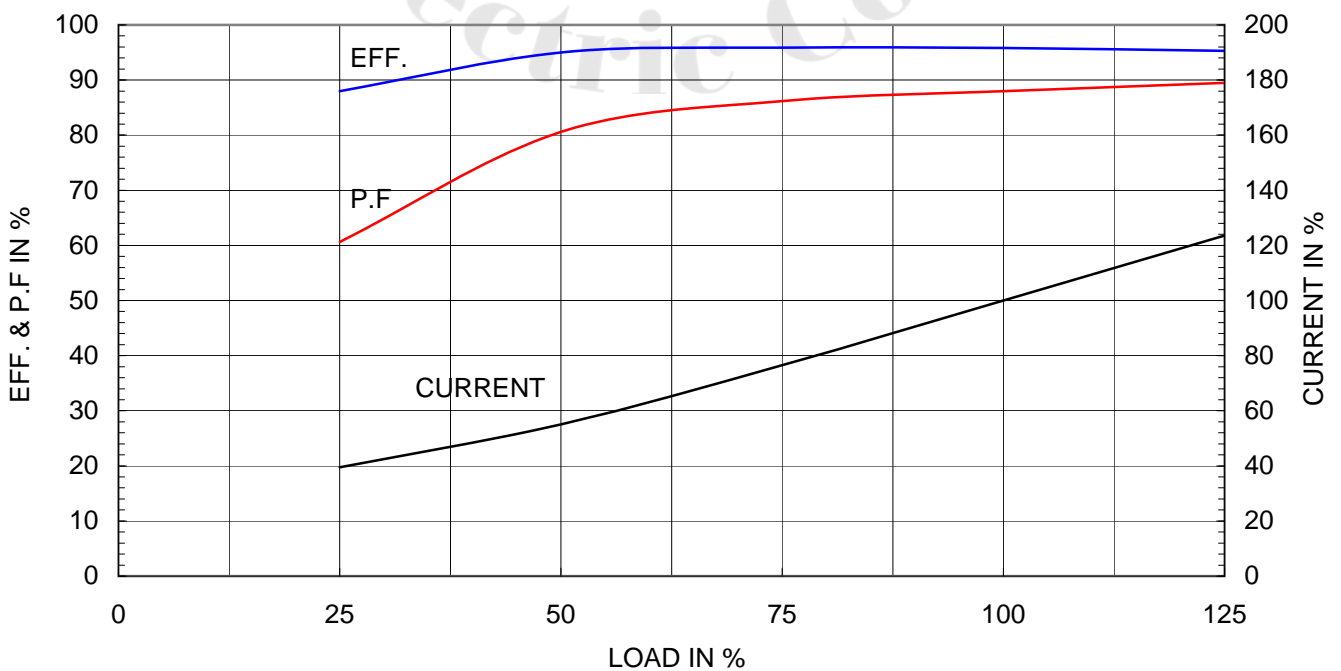
Type	: PLP
Full Load Torque	: 434.2 lb.ft
Motor moment of Inertia (J)	: 67.430 lb.ft <sup>2</sup>
Load moment of Inertia (J)	: 1855.724 lb.ft <sup>2</sup>

110 kW	150 HP	60 Hz
4 P	Rated Speed	: 1785 RPM
Rated Voltage	575V	460V
Full Load Current	131.0A	163.8A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



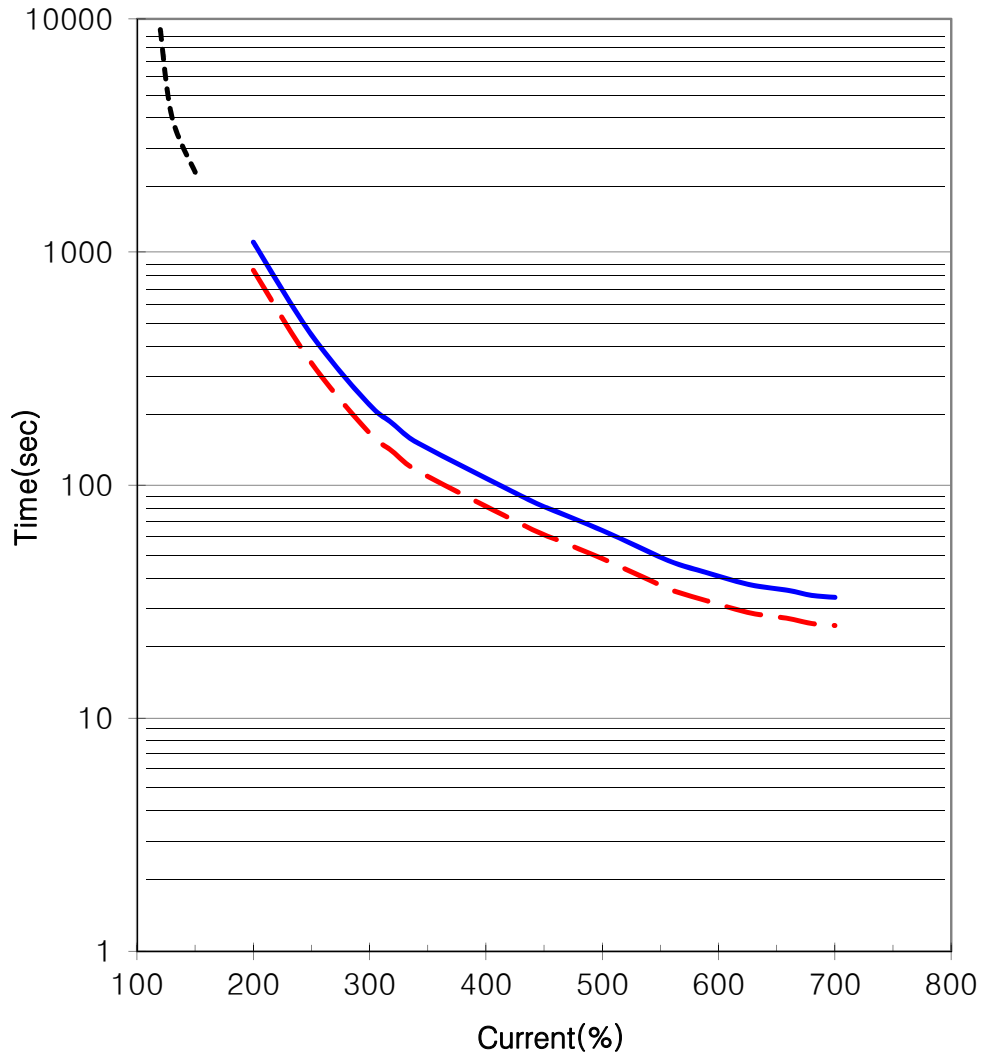


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP150-18-445T-F2

Type :	PLP150-18-445T	150	HP	4	P	60	Hz
FULL LOAD TORQUE :	434.2	lb.ft	RATED SPEED :		1785 rpm		
J OF LOAD :	-	lb.ft <sup>2</sup>	VOLTAGE		460 V	575 V	
J OF MOTOR :	67.4	lb.ft <sup>2</sup>	RATED CURRENT		163.8A	131.0A	



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

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	25 sec. at Hot condition
- at 80% of rated voltage starting	33 sec. at Cold condition

