

MODEL NUMBER	IEEE15-18-254T		
HORSEPOWER	15		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	460 / 3		
FRAME	254T		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP56		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1775 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 460	18.3 A		
LOCKED ROTOR CURRENT (% Full Load)	680 %		
NEMA CODE LETTER	H		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	92.4 %	81.5 %
	75 %	92.4 %	77.8 %
	50 %	91.4 %	69.6 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	43.7 lb.ft	200 %	240 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	213.574 lb.ft ²	2.136 lb.ft ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	74 dB(A)		
MAX. SHAFT VIBRATION	0.08 In/Sec – Peak Velocity		
NUMBER OF STARTS (Hot / Cold)	2 Hot / 3 Cold		
MAX. AMBIENT TEMPERATURE	40° C		
MAX. ELEVATION	3300 Ft. Above Sea Level		
TEMPERATURE RISE (At Full Load)	80° C		
DRIVE-END BEARING	6309ZC3		
OPPOSITE DRIVE-END BEARING	6309ZC3		
BEARING SEAL TYPE	ProTech™ IP66 Labyrinth On DE and ODE		
GREASE TYPE	Mobil Polyrex EM		
MOUNTING	F1 (F2 Suitable), W6, W8, B3, V5, V6		
ROTATION	Bi-Directional		
APPROXIMATE WEIGHT	260 lbs		
AREA CLASSIFICATION	Class I, Division 2, Groups A, B, C, D, T3A		
PAINT	Epoxy		
INVERTER RATING	10:1 CT / 1000:1 VT		
INSULATION TYPE	Hyundai Inverter Shield, Meets NEMA MG1 Part 31		
SPECIFICATION - In Accordance With	IEEE-841, Version 2009, NEMA, CSA		



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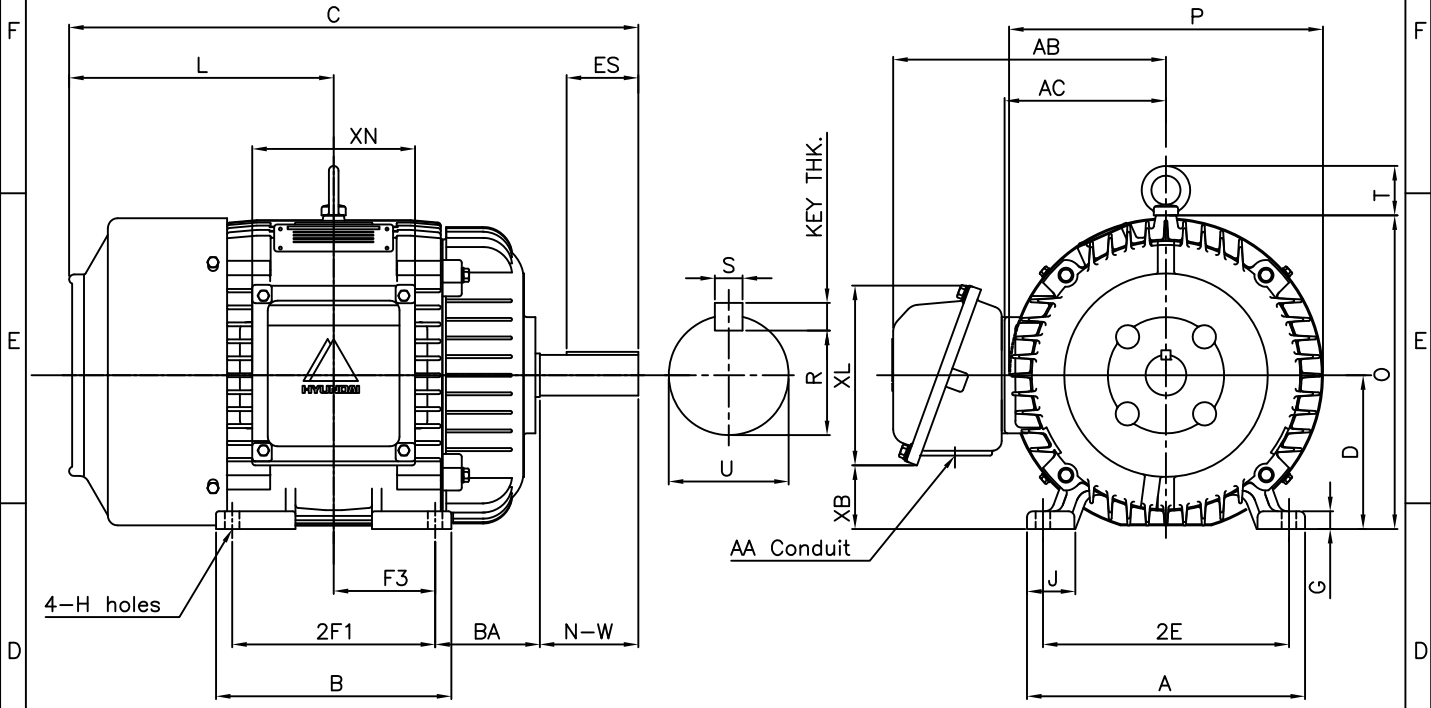
IEEE 841 TEFC

THREE PHASE INDUCTION MOTOR

TYPE

PLP
CAST IRON FRAME

FRAME SIZE	OUTPUT(HP)	POLES	Hz	TIME RATING



DIMENSIONS

MOUNTING									CONDUIT BOX						APPROX. WGT.(LB)
A	B	2E	2F1	2F2	F3	G	J	H	AA	AB	AC	XB	XL	XN	
11.30	9.56	10.00	8.25	-	4.13	0.72	1.93	0.53	1.25	11.88	9.08	2.63	7.56	6.61	260

OVERALL								SHAFT			KEY THK.	BEARING		
BA	C	D	L	O	P	T	U	N-W	KEYWAY			DRIVE END	OPP. DRIVE END	
									R	ES	S			
4.25	24.93	6.25	11.68	12.75	12.76	2.01	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 - 0.001inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

APPD BY	J. H. KIM	UNIT	INCH	SUBJECT	NEMA 254T	CAD PROJ \ FILE	XSMOUTN\A8107AA
CHKD BY	K. S. LEE	SCALE	N/S				
CHKD BY		PROJEC'N	3rd Angle	TITLE OUTLINE			
DSND BY	KIM IN KYU	DATE	2010.12.31				



REF. NO	A1107AA	Sheet No.	of
DWG NO	350A8107AA	Revision No.	0



PERFORMANCE CURVE

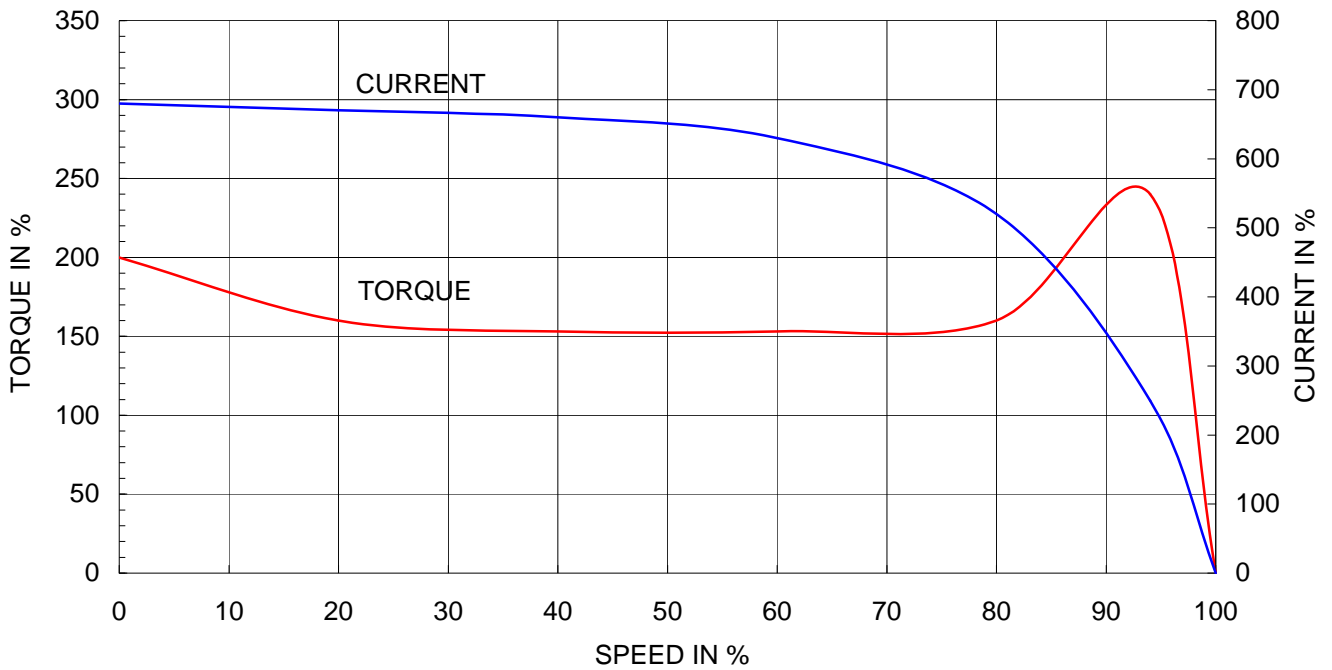
CURVE NO.

P-PLP254SR2

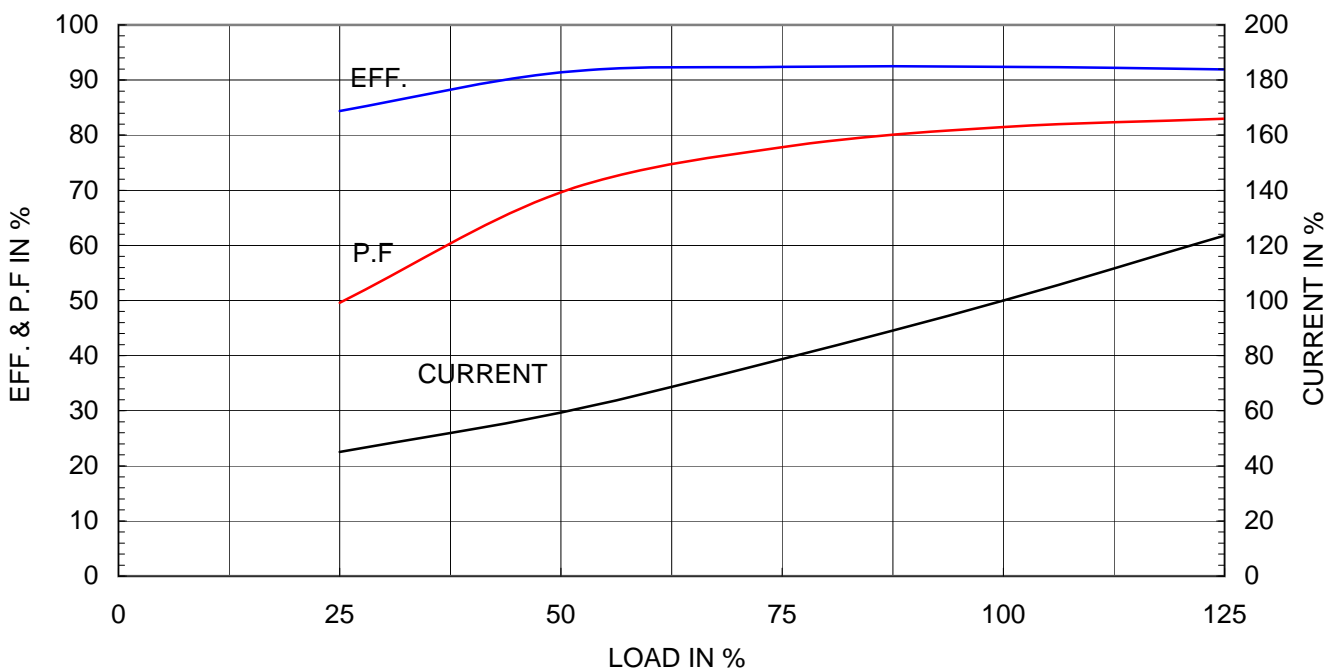
Type	:	PLP
Full Load Torque	:	43.7 lb.ft
Motor moment of Inertia (J)	:	2.136 lb.ft ²
Load moment of Inertia (J)	:	213.574 lb.ft ²

11 kW	15 HP	60 Hz	
4 P	Rated Speed :	1775 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	14.6A	18.3A	36.6A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



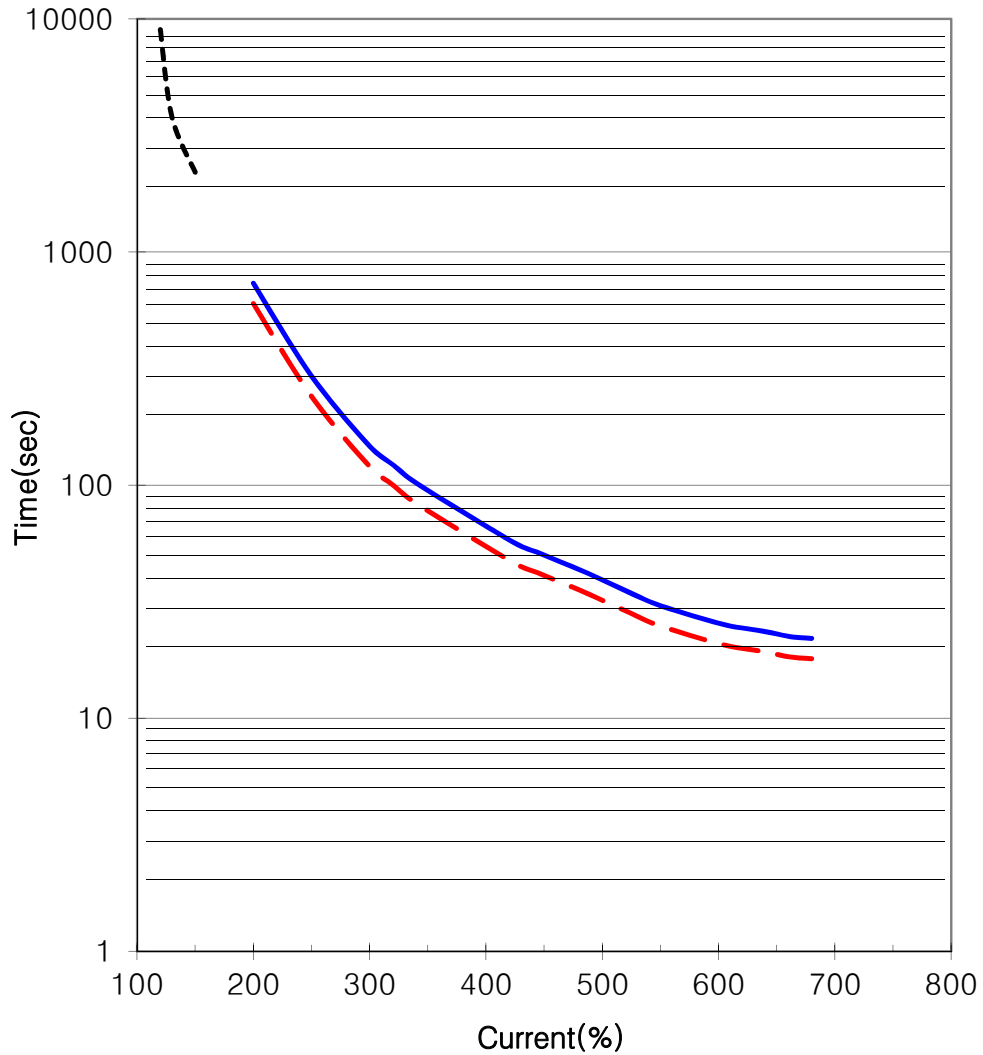


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP15-18-254T

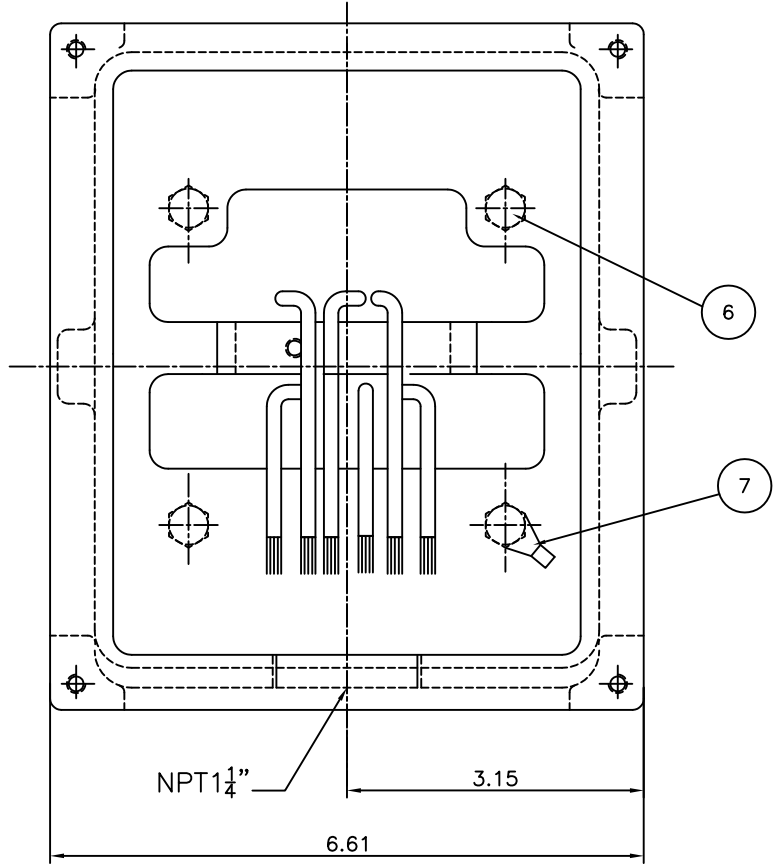
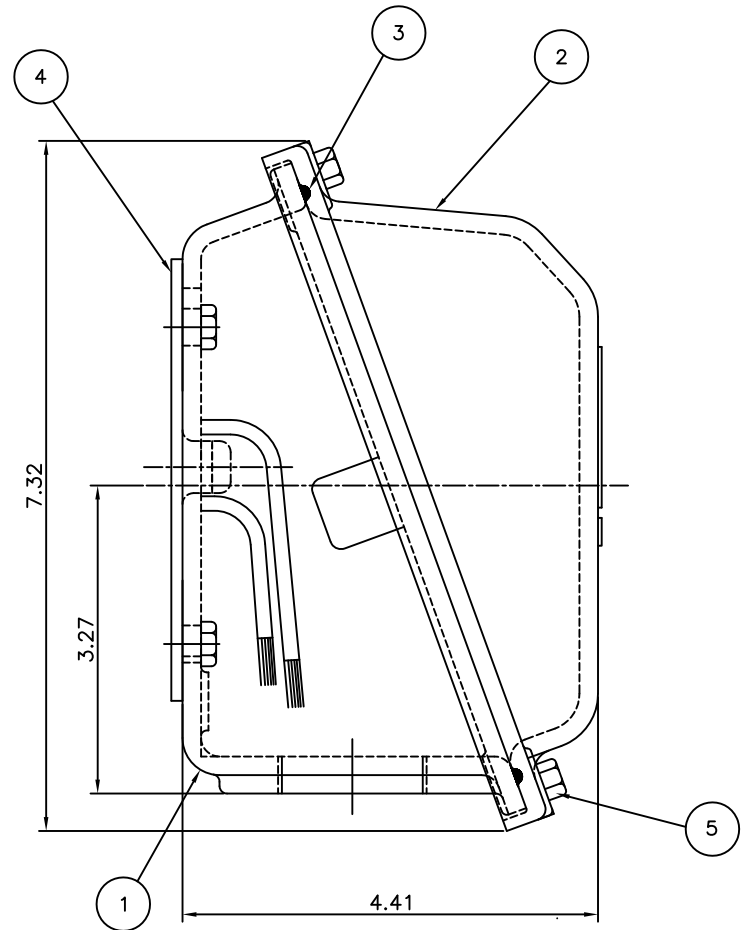
Type :	PLP15-18-254T	15 HP	4 P	60 Hz
FULL LOAD TORQUE :	43.7 lb.ft	RATED SPEED : 1775 rpm		
J OF LOAD :	- lb.ft²	VOLTAGE	460 V	575 V
J OF MOTOR :	2.1 lb.ft²	RATED CURRENT	18.3A	14.6A



— 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

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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						