

MODEL NUMBER	IEEE250-36-449TS		
HORSEPOWER	250		
RPM / POLES	3600 / 2		
VOLTAGE / PHASE	460 / 3		
FRAME	449TS		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP56		
FREQUENCY	60 HZ		
FULL LOAD SPEED	3570 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 460	276.6 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 %	90.0 %
	75 %	95.8 %	89.0 %
	50 %	94.3 %	87.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	375.0 lb.ft	120 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	463.931 lb.ft <sup>2</sup>	58.330 lb.ft <sup>2</sup>	
SOUND PRESSURE LEVEL ( No Load 1 M From Motor)	82 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	6314C3		
OPPOSITE DRIVE-END BEARING	6314C3		
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	Uni-Directional, CCW		
APPROXIMATE WEIGHT	2430 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		



CC 038A







# PERFORMANCE CURVE

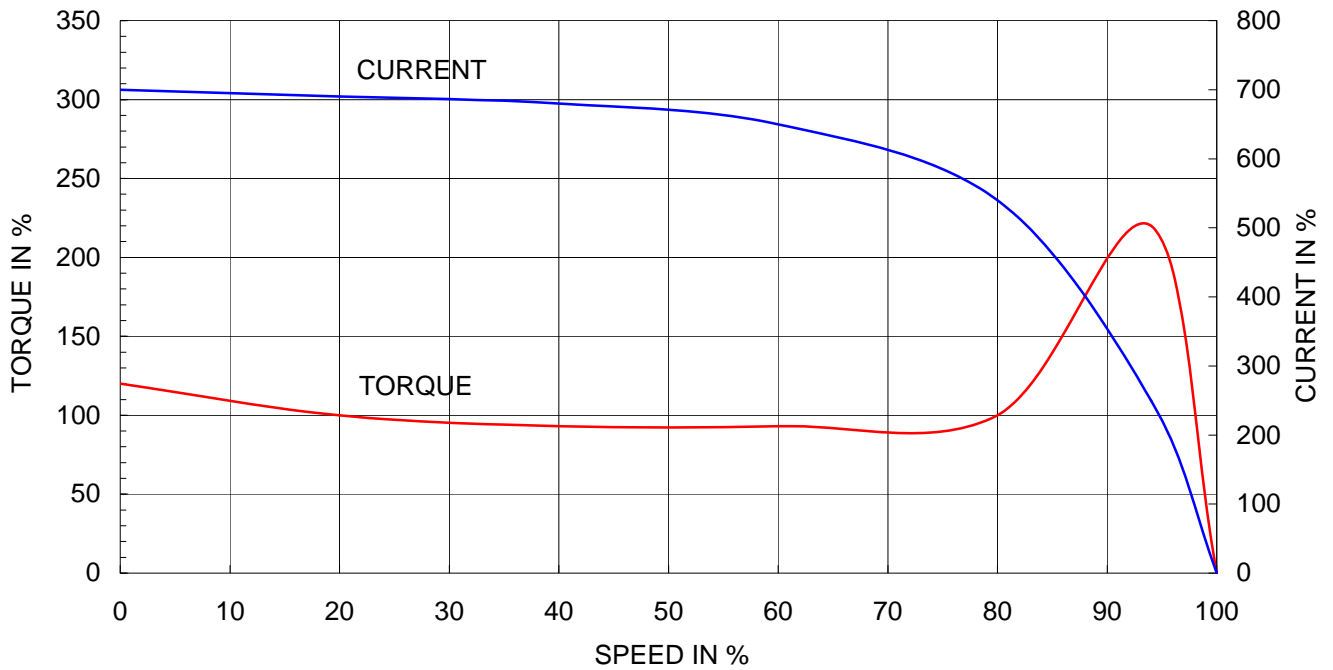
CURVE NO.

**P-PLP449SR02**

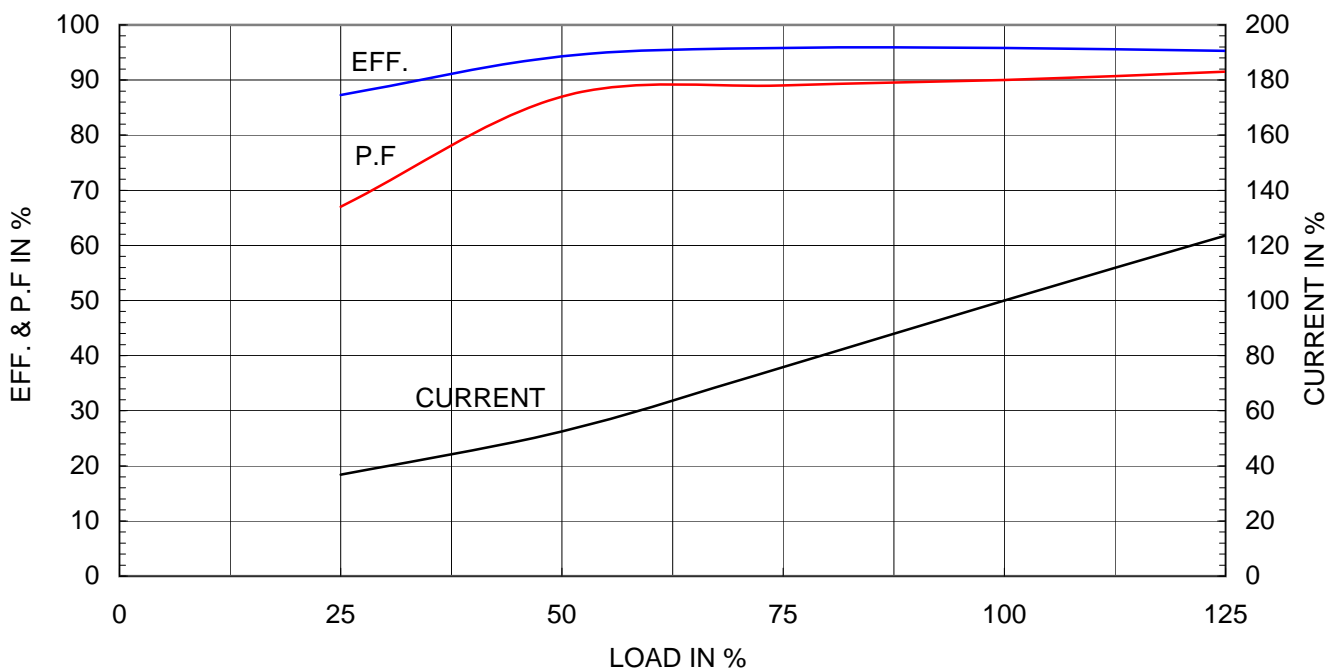
Type	:	PLP
Full Load Torque	:	375.0 lb.ft
Motor moment of Inertia (J)	:	58.330 lb.ft <sup>2</sup>
Load moment of Inertia (J)	:	463.931 lb.ft <sup>2</sup>

190 kW	250 HP	60 Hz	
2 P	Rated Speed	: 3570 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	221.3A	276.6A	553.2A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



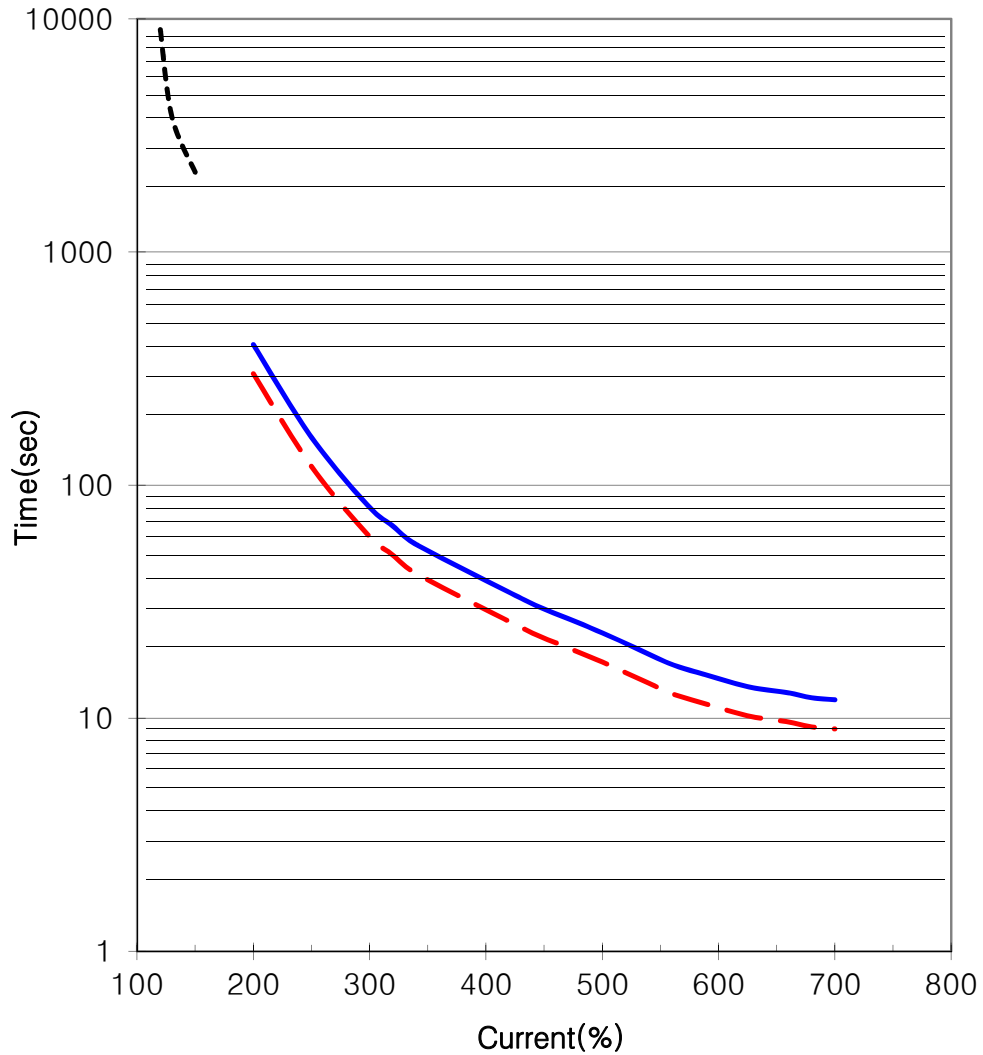


# THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP250-36-449TS

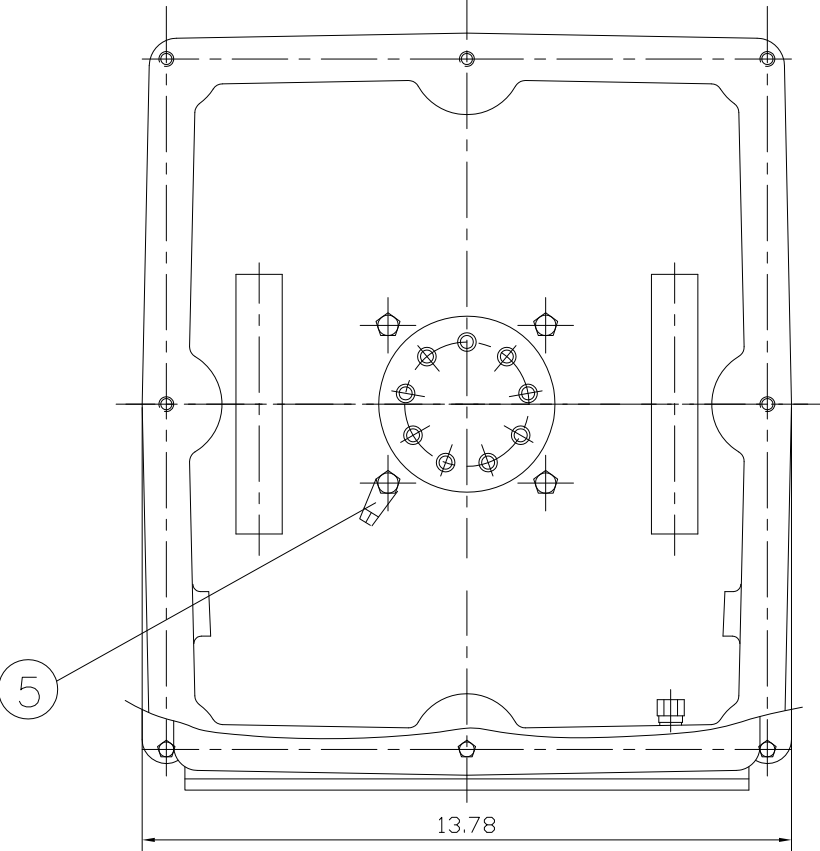
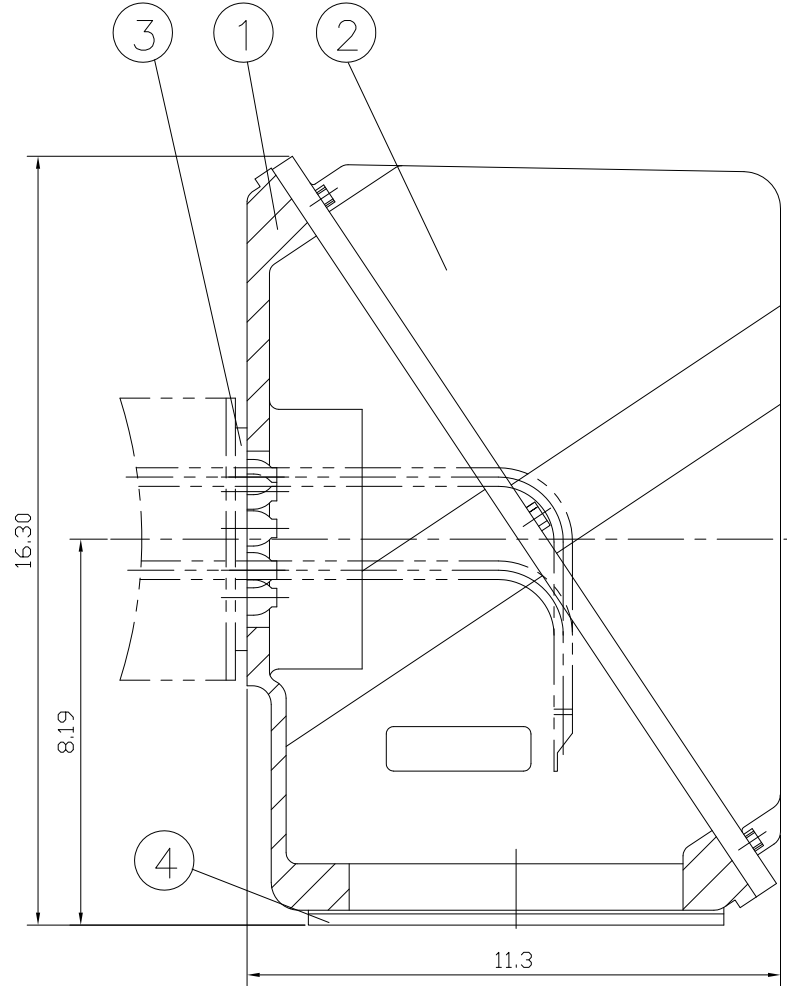
Type :	PLP250-36-449TS	250	HP	2	P	60	Hz
FULL LOAD TORQUE :	375.0	lb.ft	RATED SPEED :		3570 rpm		
J OF LOAD :	-	lb.ft <sup>2</sup>	VOLTAGE		460 V	575 V	
J OF MOTOR :	58.3	lb.ft <sup>2</sup>	RATED CURRENT		276.6A	221.3A	



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

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	9 sec. at Hot condition
- at 80% of rated voltage starting	12 sec. at Cold condition

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REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						

일반가공공차		일반재관공차	
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

1	EARTH TERMINAL LUG						5
1	CABLE ENTRY PLATE						4
1	GASKET	NBR					3
1	TERMINAL BOX COVER	CAST IRON					2
1	TERMINAL BOX BODY	CAST IRON					1
Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.

APPD BY	KANG KYOUNG JUNG	UNIT	INCH	SUBJECT	NEMA 440	CAD PROJ \ FILE
CHKD BY	KIM OK JIN	SCALE	1/3	S/T-BOX-M/3r038513		
DSND BY		PROJEC'N	3rd Angle	TITLE		
TRCD BY	KIM JONG SEON	DATE	99.04.28	Main Terminal Box Assembly		



REF. NO		Sheet No.	of
DWG NO	3M-038513	Revision No.	0