

MODEL NUMBER	IEEE50-36-326TSC		
HORSEPOWER	50		
RPM / POLES	3600 / 2		
VOLTAGE / PHASE	460 / 3		
FRAME	326TSC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP56		
FREQUENCY	60 HZ		
FULL LOAD SPEED	3560 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 460	55.8 A		
LOCKED ROTOR CURRENT (% Full Load)	660 %		
NEMA CODE LETTER	G		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	93.0 %	89.5 %
	75 %	93.2 %	88.5 %
	50 %	92.0 %	86.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	73.2 lb.ft.	160 %	230 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	106.787 lb.ft. ²	4.272 lb.ft. ²	
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	6313ZC3		
OPPOSITE DRIVE-END BEARING	6211ZC3		
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	540 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





IEEE841 TEFC

THREE PHASE INDUCTION MOTOR

TYPE

PLP

CAST IRON FRAME

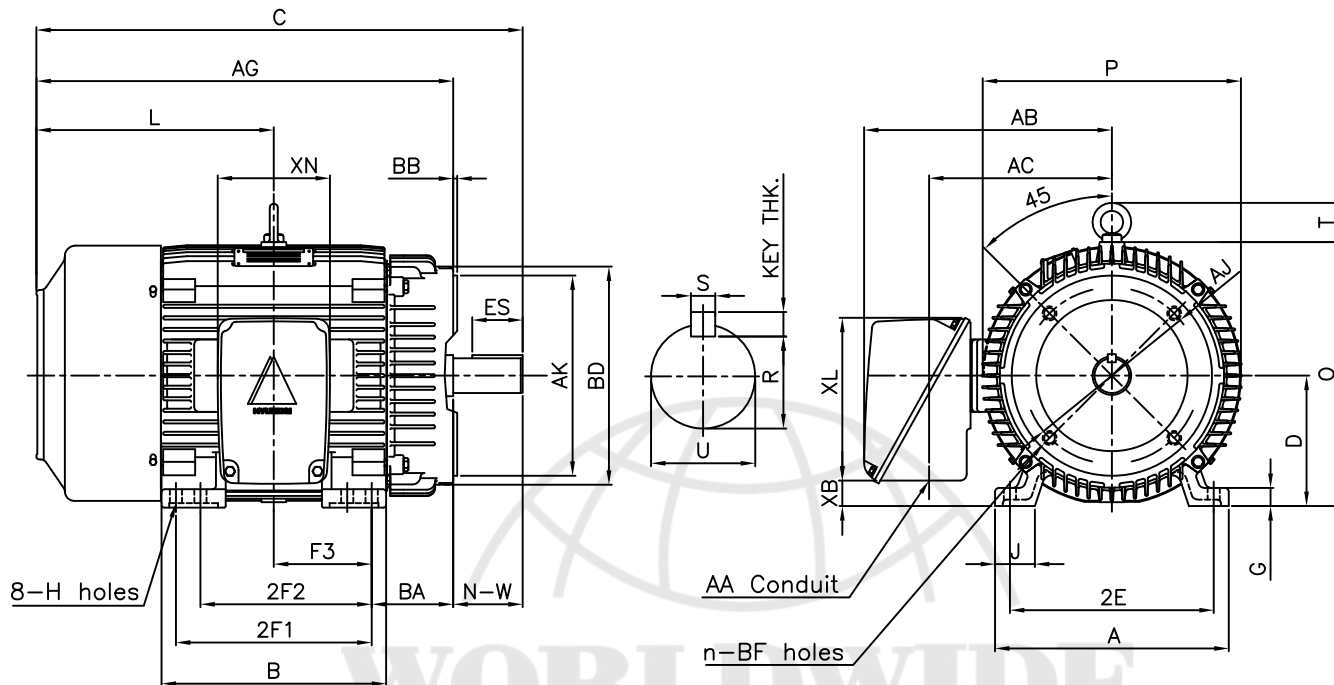
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



F L A N G E						M O U N T I N G								
AJ	AK	BD	BB	BF	n	A	B	2E	2F1 ⁵⁾	2F2 ⁴⁾	F3	G	J	H
11.0	12.50	13.27	0.25	5/8-11	4	14.33	13.78	12.50	12.00	10.50	6.00	1.11	2.44	0.66

C O N D U I T B O X						O V E R A L L								A P P R O X . W G T . (L B)	
AA	AB	AC	XB	XL	XN	AG	BA	C	D	L	O	P	T	324TS	326TS
2.00	15.20	11.21	1.57	10.16	7.01	25.82	5.25	29.60	8.00	14.60	16.19	15.84	2.41	530	540

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			
1.75	3.75	1.591	2.03	0.500	0.500	6313ZC3	6211ZC3

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
- 4.Location of holes for 324TSC frame
- 5.Location of holes for 326TSC frame

APPD BY	KIM.Y.S	UNIT	INCH	SUBJECT	NEMA 324TSC/326TSC	CAD PROJ \ FILE	XSMOUTN\A8312BA
CHKD BY	KO.S.H	SCALE	1/12	TITLE	OUTLINE		
CHKD BY		PROJEC'N	3rd Angle				
DSND BY	LEE KWANG SOO	DATE	2004.04.02	REF. NO		A1312BA	Sheet No.
				DWG NO	350A8312BA	Revision No.	0



PERFORMANCE CURVE

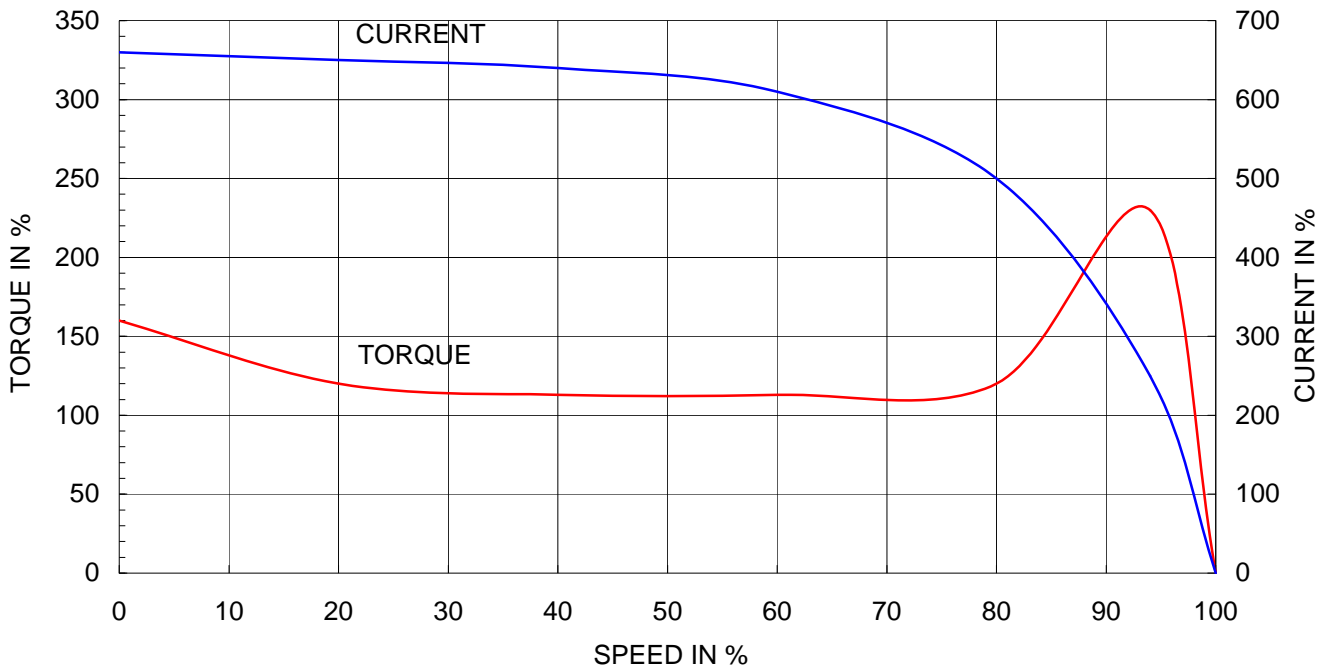
CURVE NO.

P-PLP326SR1

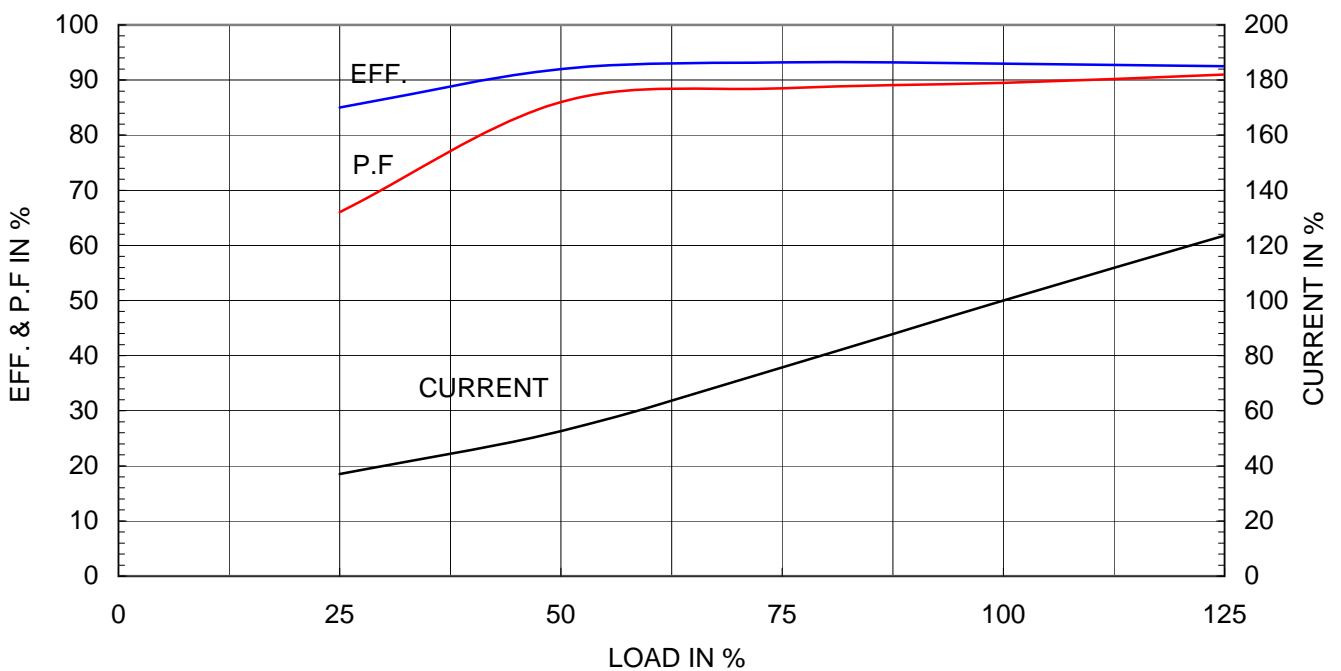
Type	:	PLP
Full Load Torque	:	73.2 lb.ft
Motor moment of Inertia (J)	:	4.272 lb.ft ²
Load moment of Inertia (J)	:	106.787 lb.ft ²

	37 kW	50 HP	60 Hz
	2 P	Rated Speed : 3560 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	44.6A	55.8A	111.6A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

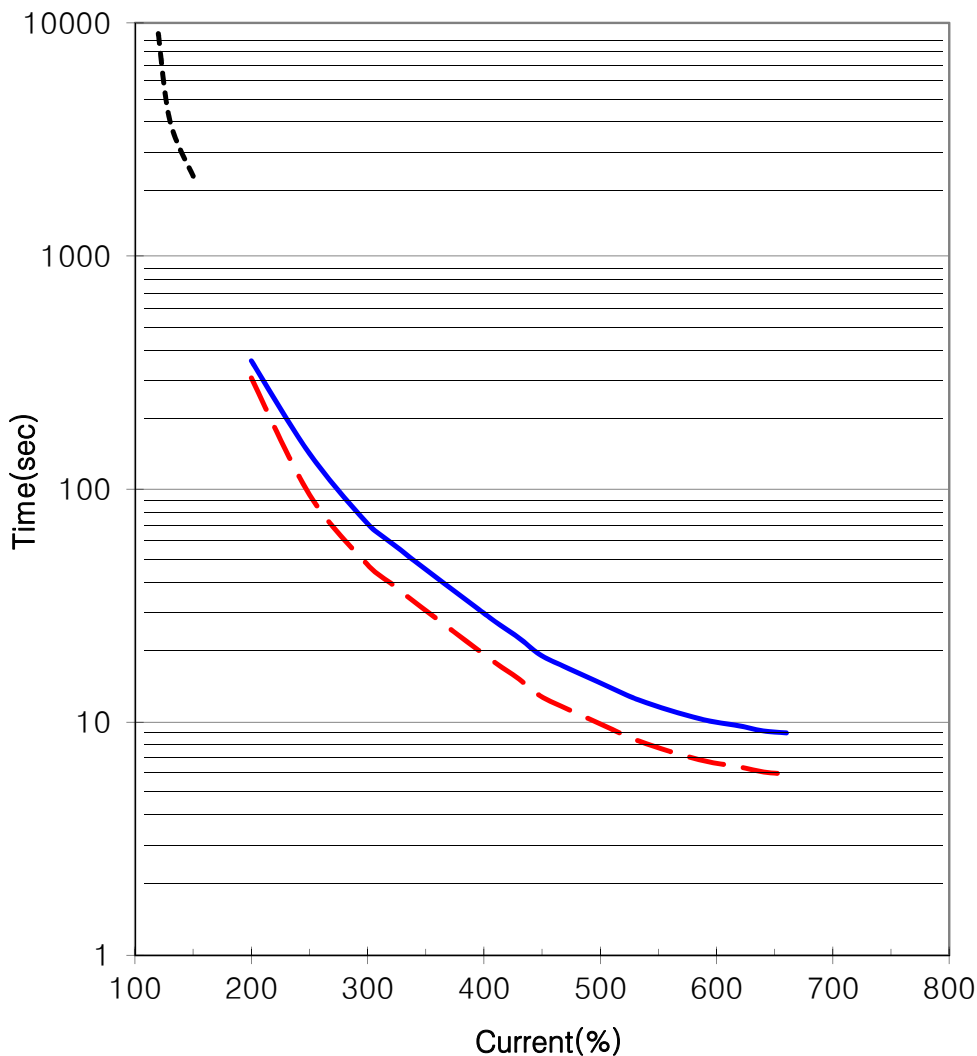




THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.
T-PLP50-36-326TS

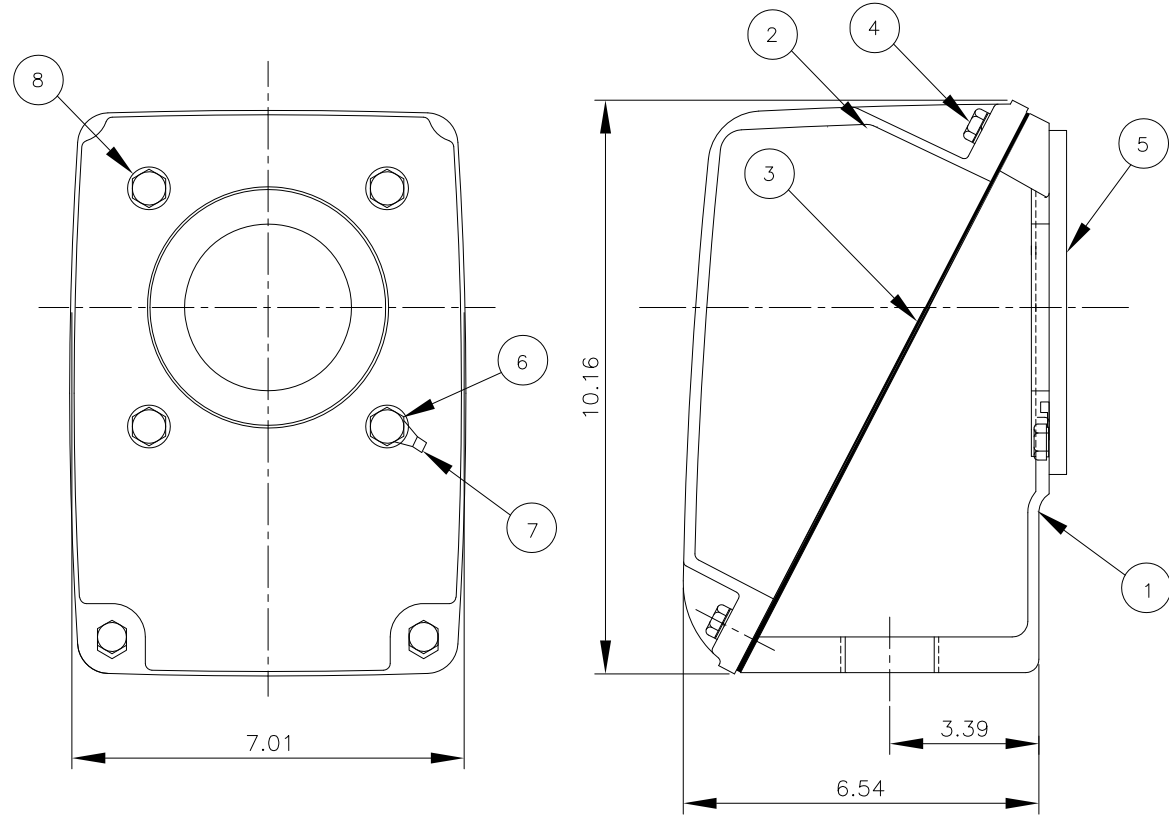
Type :	PLP50-36-326TS		50	HP	2	P	60	Hz
FULL LOAD TORQUE :	73.2	lb.ft	RATED SPEED :		3560 rpm			
J OF LOAD :	-	lb.ft²	VOLTAGE		460 V	575 V		
J OF MOTOR :	4.3	lb.ft²	RATED CURRENT		55.8A	44.6A		



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

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	6 sec. at Hot condition
- at 80% of rated voltage starting	9 sec. at Cold condition

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PT	DESCRIPTION	MATERIAL	DIMENSION	Q,TY
1	CONDUIT BOX	FC20		1
2	C/B COVER	FC20		1
3	GASKET(COVER)	N.B.R	T2X170X210	1
4	SCREW(COVER)	S45C	M8XL20	4
5	GASKET(C/B)	N.B.R		1
6	SCREW(C/B)	S45C	M8XL20	4
7	TERMINAL GROUND	CU	T1.6	1
8	WASHER	S45C	M8 X L10	4

▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

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

일반기준공차		일반계관공차	
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

Q'TY	DESCRIPTION	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	KANG KYEONG JUNG	UNIT	INCH	SUBJECT	NEMA 320		DWG SIZE
CHKD BY	LEE NOH DUK	SCALE	1/2	TITLE			A3 (1:30)
CHKD BY	KIM IN KYU	PROJEC'N	3각법(3rd Angle)				
DSND BY	KIM EUN SEONG	DATE	2011-08-30	Main Terminal Box Assembly			
REF. NO	227B8003CB5		Sheet No.		of		
DWG NO	3M-145864		Revision No.		0		