

MODEL NUMBER	IEEE50-18-326TC		
HORSEPOWER	50		
RPM / POLES	1800 / 4		
VOLTAGE / PHASE	460 / 3		
FRAME	326TC		
ENCLOSURE / DEGREE OF PROTECTION	TEFC / IP56		
FREQUENCY	60 HZ		
FULL LOAD SPEED	1780 RPM		
SERVICE FACTOR	1.15		
INSULATION CLASS	F Class N Varnish		
FULL LOAD AMPS; 460	59.9 A		
LOCKED ROTOR CURRENT (% Full Load)	700 %		
NEMA CODE LETTER	H		
EFFICIENCY / POWER FACTOR	<u>LOAD</u>	<u>EFF.</u>	<u>P.F.</u>
	100 %	94.5 %	82.0 %
	75 %	94.5 %	79.5 %
	50 %	93.3 %	74.0 %
DUTY CYCLE	S1 / Continuous		
TORQUE	<u>FULL LOAD</u>	<u>LRT</u>	<u>BDT</u>
	146.4 lb.ft.	160 %	220 %
NEMA DESIGN	B		
MOMENT OF INERTIA	<u>LOAD (Max.)</u>	<u>MOTOR</u>	
	569.532 lb.ft. ²	8.307 lb.ft. ²	
SOUND PRESSURE LEVEL (No Load 1 M From Motor)	77 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	560 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

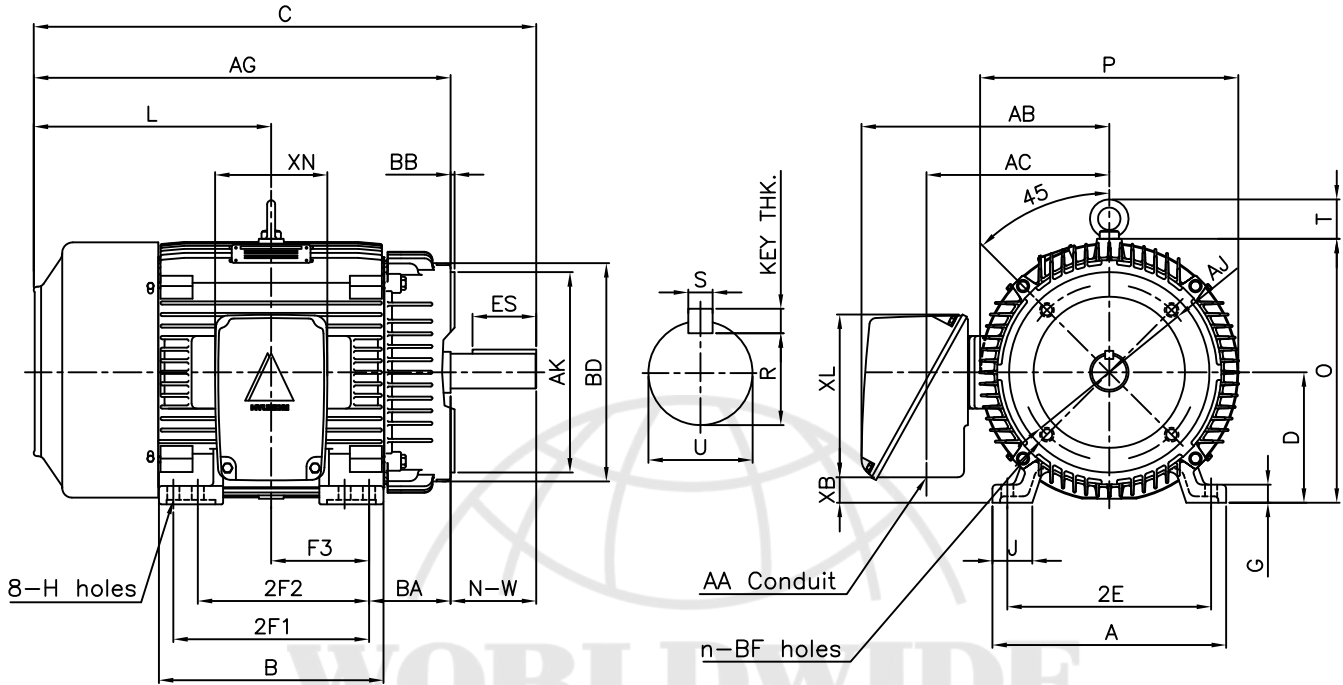
FRAME SIZE

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	2.36	0.66	

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	324T	326T	
2.00	15.20	11.21	1.57	10.16	7.01	25.82	5.25	31.10	8.00	14.60	16.19	15.84	2.41	550	560	

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			
2.125	5.25	1.845	3.91	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 324TC frame
- 5.Location of holes for 326TC frame

APPD BY	KIM.Y.S	UNIT	INCH	SUBJECT	NEMA 324TC/326TC	CAD PROJ \ FILE
CHKD BY	KO.S.H	SCALE	1/12			XSMOUTN\A1312BA
CHKD BY		PROJEC'N	3rd Angle	TITLE OUTLINE		
DSND BY	LEE KWANG SOO	DATE	2004.04.02			
				REF. NO	A1312AA	Sheet No. of
				DWG NO	350A1312AA	Revision No. 0



PERFORMANCE CURVE

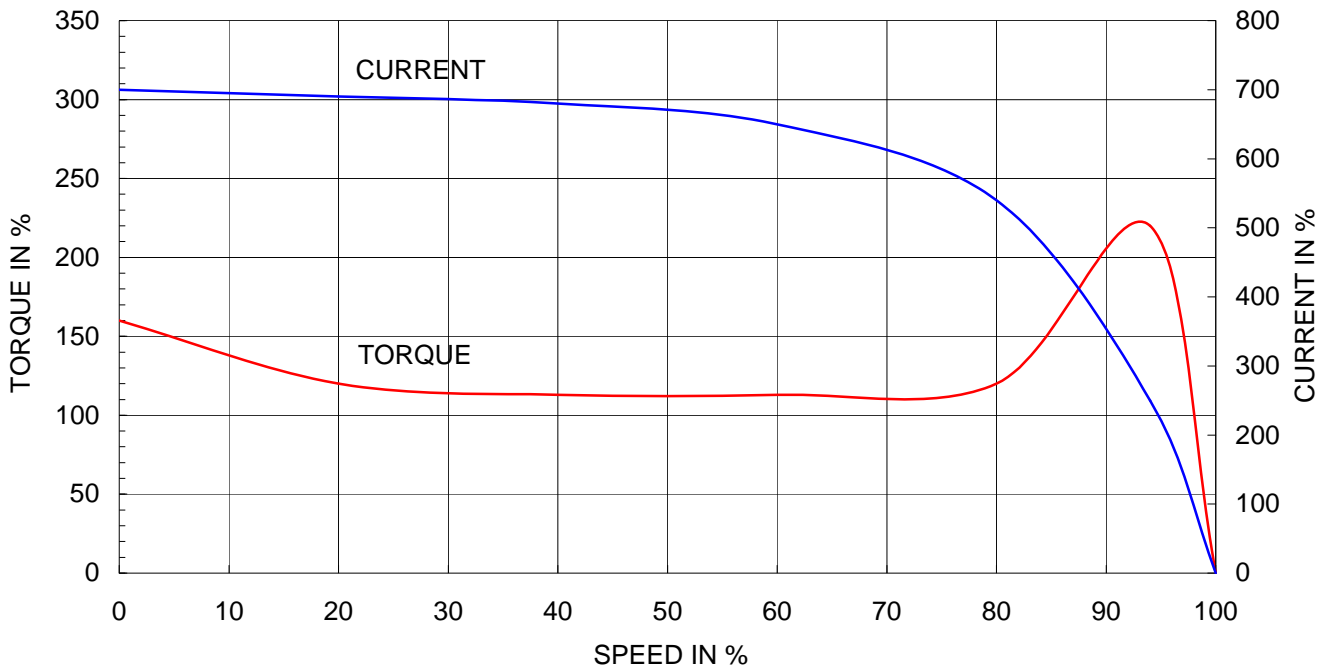
CURVE NO.

P-PLP326SR2

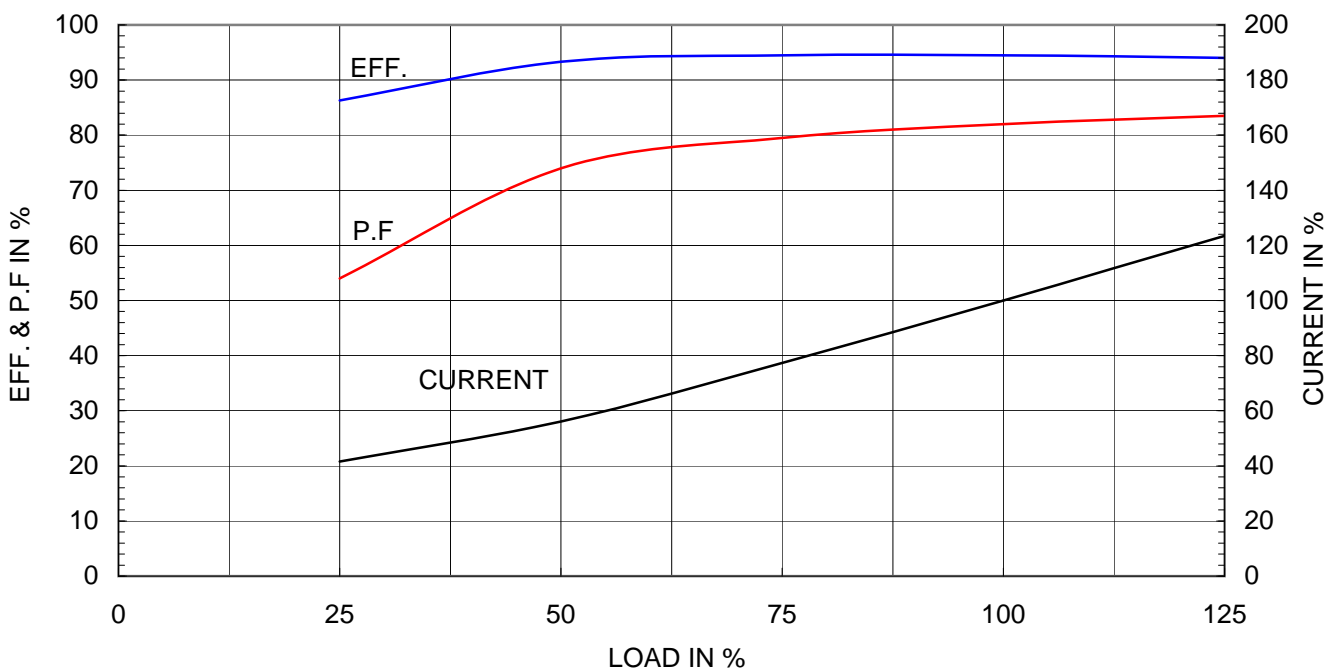
Type	:	PLP
Full Load Torque	:	146.4 lb.ft
Motor moment of Inertia (J)	:	8.307 lb.ft ²
Load moment of Inertia (J)	:	569.532 lb.ft ²

	37 kW	50 HP	60 Hz
	4 P	Rated Speed : 1780 RPM	
Rated Voltage	575V	460V	230V
Full Load Current	47.9A	59.9A	119.8A

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



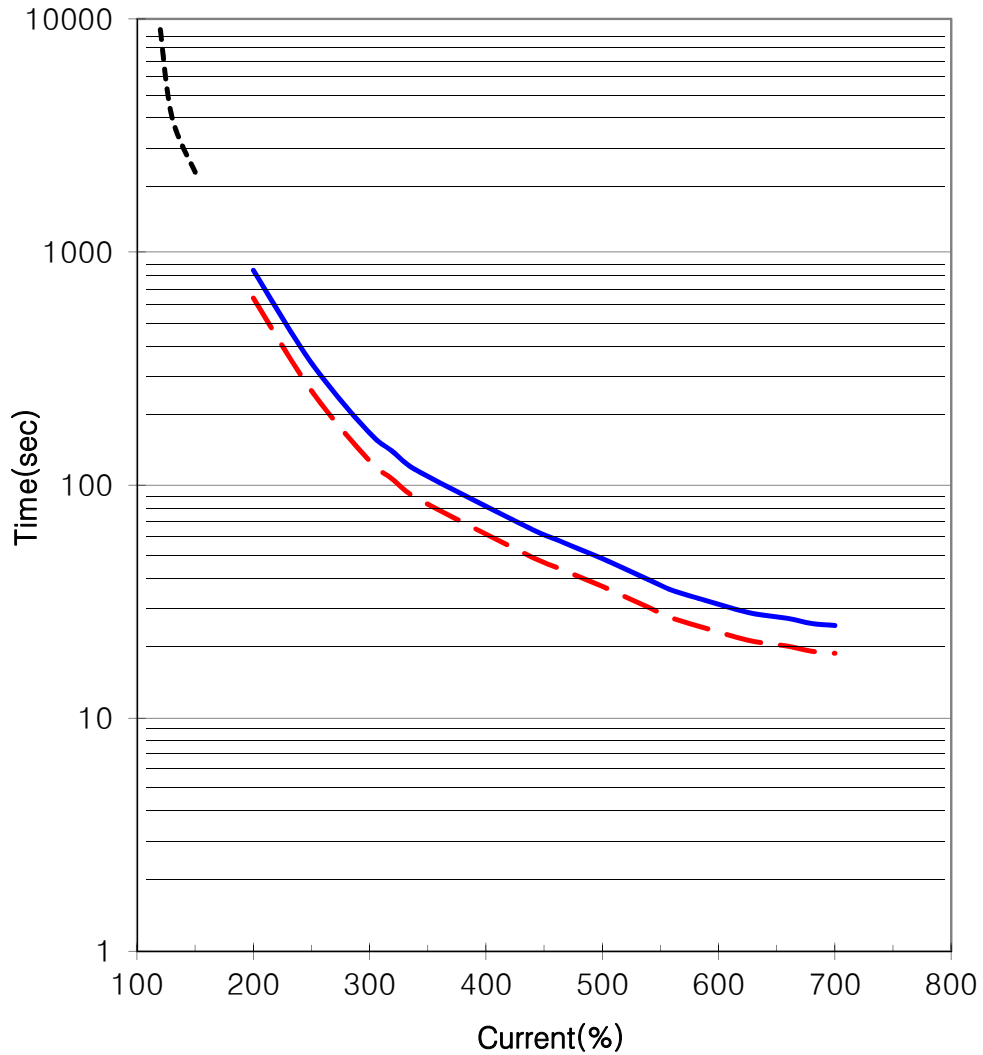


THERMAL LIMIT & TIME CURRENT CURVE

CURVE NO.

T-PLP50-18-326T(L)

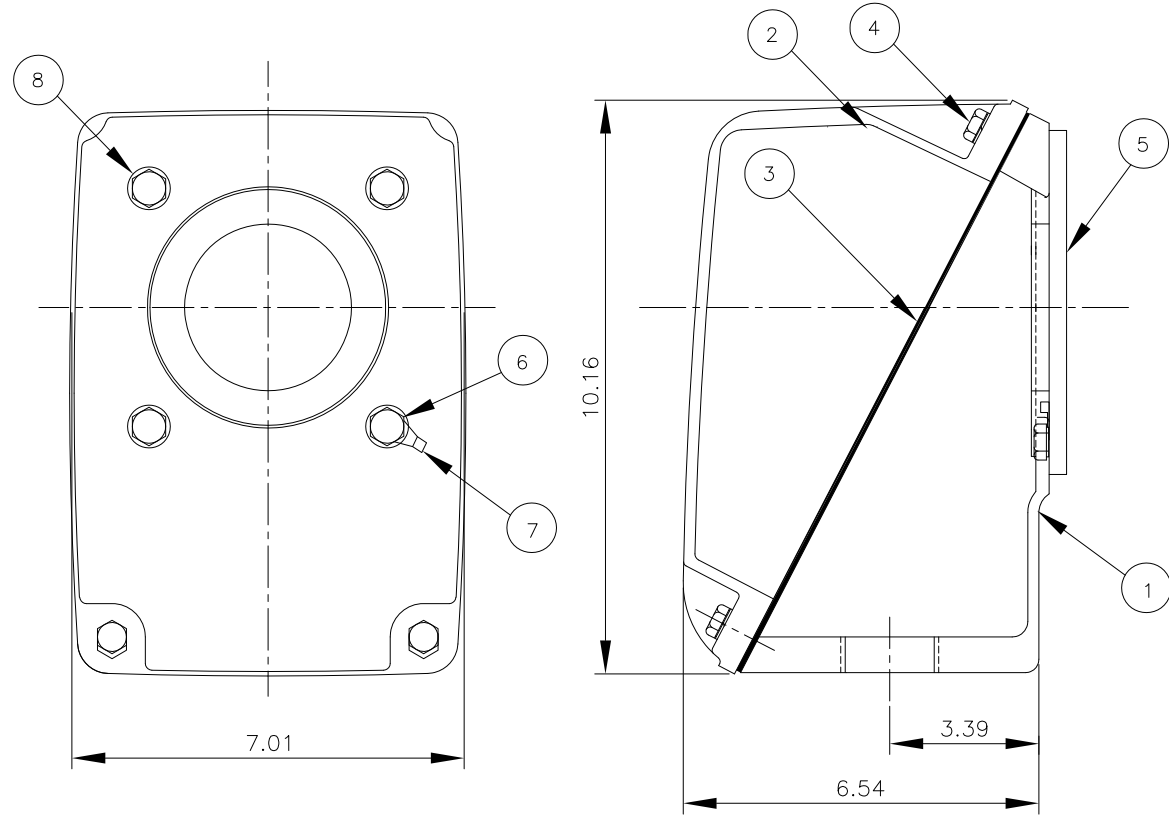
Type :	PLP50-18-326T(L)		50	HP	4	P	60	Hz
FULL LOAD TORQUE :	146.4	lb.ft	RATED SPEED :		1780 rpm			
J OF LOAD :	-	lb.ft ²	VOLTAGE		460 V	575 V		
J OF MOTOR :	8.3	lb.ft ²	RATED CURRENT		59.9A	47.9A		



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

STARTING TIME	SAFE STALL TIME
- at rated voltage starting	19 sec. at Hot condition
- at 80% of rated voltage starting	25 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				