PRODUCT INFORMATION PACKET

Model No: 145THTN8044BB

Catalog No: 810547.00

1.5HP..1735RPM.145.TENV./V.3PH.60HZ.INVERTER.NOT.40C.1.0SF.RIGID.INVERTER DUTY.145THTN8044BB

2000:1 With Encoder Provision

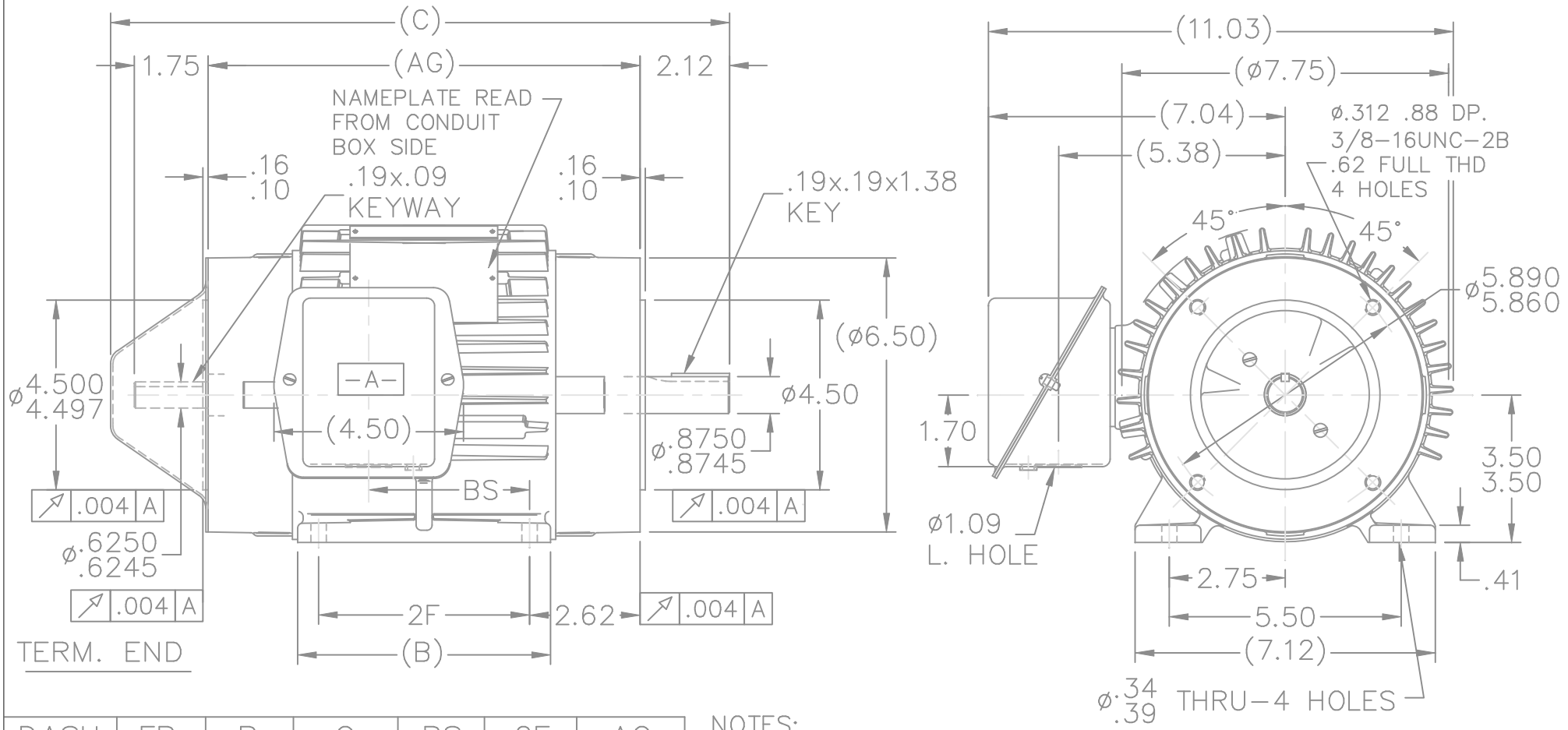
Product Information Packet: Model No: 145THTN8044BB, Catalog No:810547.00
1.5HP..1735RPM.145.TENV./V.3PH.60HZ.INVERTER.NOT.40C.1.0SF.RIGID.INVERTER DUTY.145THTN8044BB

Nameplate Specifications

Output HP	**1.50 Hp**	Output KW	**1.1 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**4.6/2.3 A**	Speed	**1750 rpm**
Service Factor	**1**	Phase	**3**
Efficiency	**82.5 %**	Duty	**Continuous**
Insulation Class	**H**	Design Code	**INV**
KVA Code	**N**	Frame	**145TC**
Enclosure	**Totally Enclosed Non Ventilated**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6205**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**N**
IP Code	**43**		

Technical Specifications

Electrical Type	**Squirrel Cage Inverter Duty**	Starting Method	**Inverter Only**
Poles	**4**	Rotation	**Reversible**
Mounting	**Rigid base**	Motor Orientation	**HORIZONTAL**
Drive End Bearing	**BALL**	Opp Drive End Bearing	**BALL**
Frame Material	**Cast Iron**	Shaft Type	**T Both Sides**
Overall Length	**14.68 in**	Frame Length	**6.25 in**
Shaft Diameter	**0.875 in**	Shaft Extension	**2.25 in**
Assembly/Box Mounting	**F1 ONLY**		
Outline Drawing	**A-104291LE-625**	Connection Diagram	**A-EE7308T-LE**



DASH	FR.	B	C	BS	2F	AG
525	143T	5.00	13.68	2.81	4.00	9.25
625	145T	6.00	14.68	3.81	5.00	10.25

NOTES:
1- BOX CAN BE ROTATED IN 90° STEPS.
2- BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.

NO.	REVISION	BY & DATE	CHK
1	NEW DRAWING CN 34134	NJS 05-16-2002	

TOLERANCES UNLESS SPECIFIED	
DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE OUTLINE
140T FR. - BB - TS - TENV

MAT'L.
FINISH
CAD FILE 104291LE
RFP 05-16-2002
DIST WP

DRAWN	NJS 05-16-2002
CHK	ML 05-16-2002
APPD	TB 05-16-2002
SCALE	9=32
REF	
FMF	
PREV	

SIZE	DRAWING NO.	PAGE OF	REV.
A	104291LE		1

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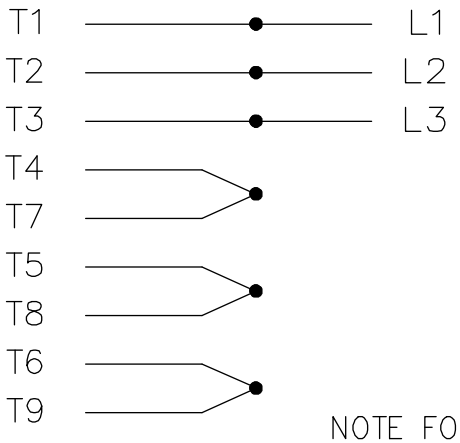
EE7308T-LE

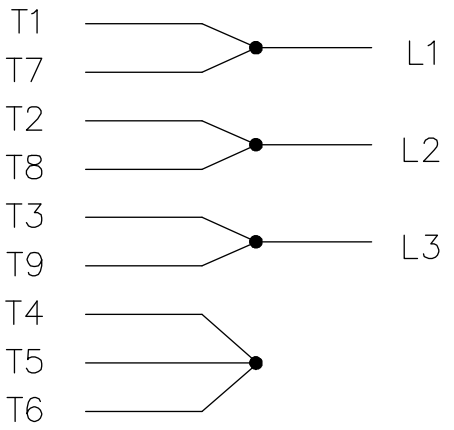
THREE PHASE DUAL VOLTAGE MOTOR

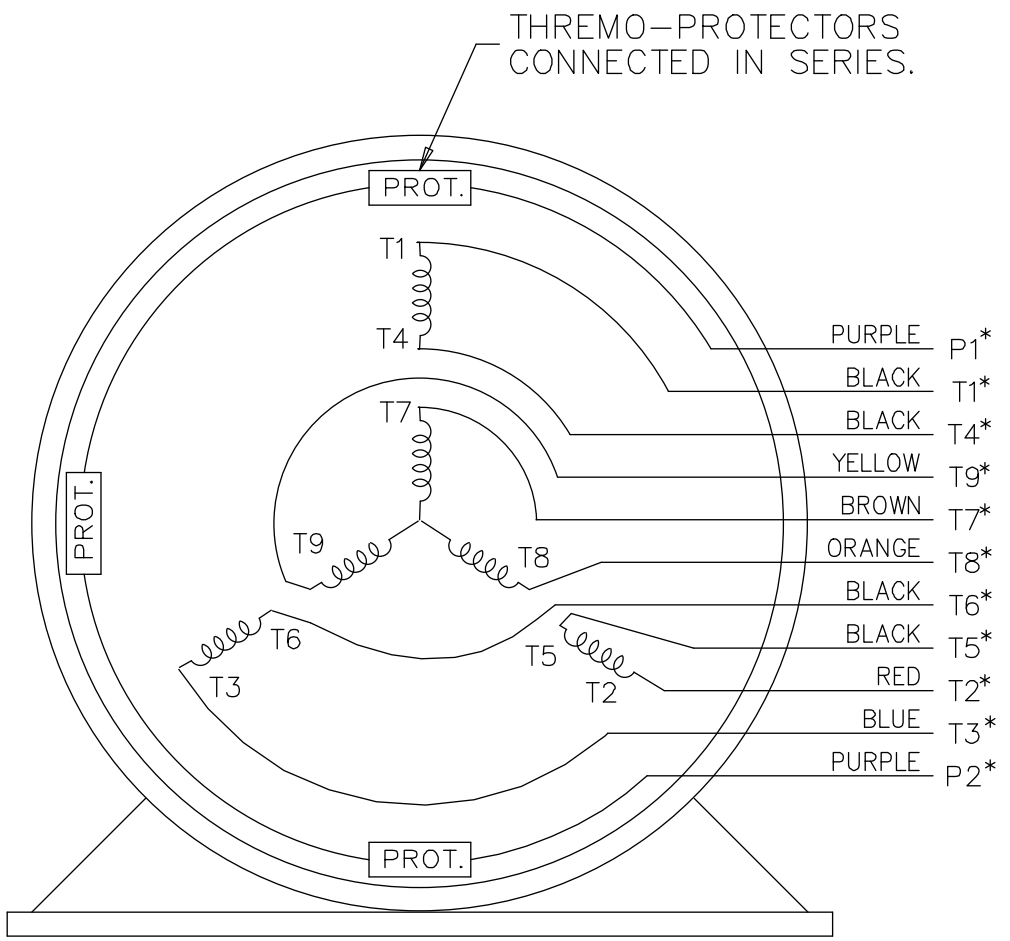
HIGH VOLTAGE



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE





VIEW OF TERMINAL END

* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.

NO.	REVISION	BY & DATE	CHK
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML
03	RE-ISSUE	NJS 04-21-2004	JET
02	REDRAWN	TAT 04-20-2004	ML
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE CONNECTION DIAGRAM
3 PHASE – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

RFP

CAD FILE EE7308T_LE

DIST LB-WP-LE

DRAWN	TJB 05-07-2002
CHK	ML 05-08-2002
APPD	TB 05-08-2002
SCALE	1=1
REF	
FMF	
PREV	

SIZE	DRAWING NO. PAGE OF	REV.
A	EE7308T-LE	05

Data Sheet

Date: 2/1/2018

LEESON

810547.00

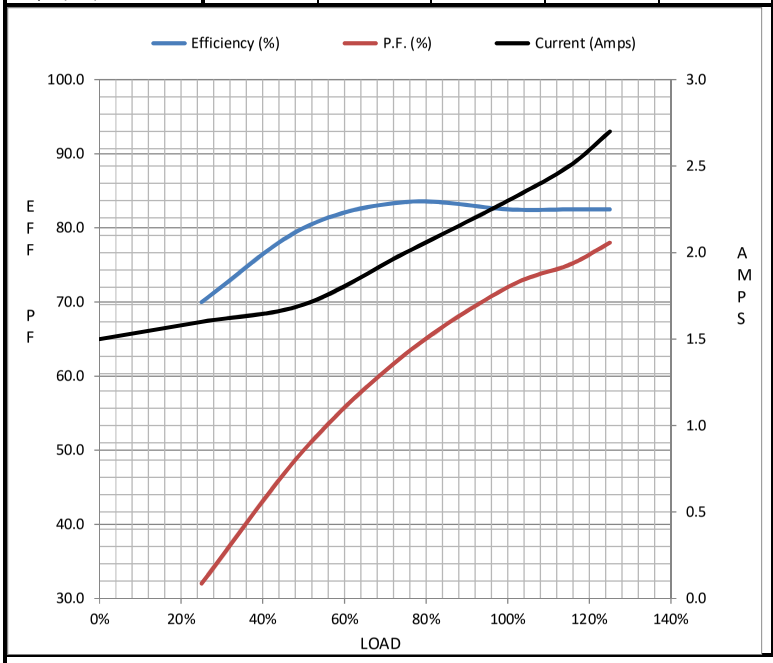
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.50	1.60	1.70	2.00	2.30	2.50	2.70	23.0	
Torque (ft-lb)	0.00	1.10	2.20	3.4	4.5	5.1	5.7	18.0	
RPM	1800	1785	1775	1765	1750	1,744	1735	0	
Efficiency (%)		70.0	80.0	83.5	82.5	82.5	82.5		
P.F. (%)	9.0	32.0	50.0	63.0	72.0	75.0	78.0	70.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	550	1200	1750	1800
Current (Amps)	23.0	19.0	14.5	2.30	1.50
Torque (ft-lb)	18.0	15.5	24.0	4.5	0.00



Information Block

HP	1.5	
Sync. RPM	1800	
Frame	145	
Enclosure	TENV	
Construction	TTN	
Voltage	230/460	V
Frequency	60	Hz
Design	A	
LR Code letter	N	
Service Factor	1.15	
Temp Rise @ FL	80	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.10	Lb-Ft²
Ref Wdg	ZT4160 F	
Sound Pressure @ 1M	62	dBA
VFD Rating	CONSTANT 2000:1	
Outline Dwg	A-104291LE-625	
Conn. Diag	A-EE7308T-LE	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
6.2940	4.4980	7.2770	7.0880	185.4090

Speed -Torque Curve