

PRODUCT INFORMATION PACKET

Model No: 811369.00

Catalog No: 811369.00

Encoder Motors, TEBC - Axial, 125 HP, 3 Ph, 60 Hz, 460 V, 1785 RPM, 444T Frame



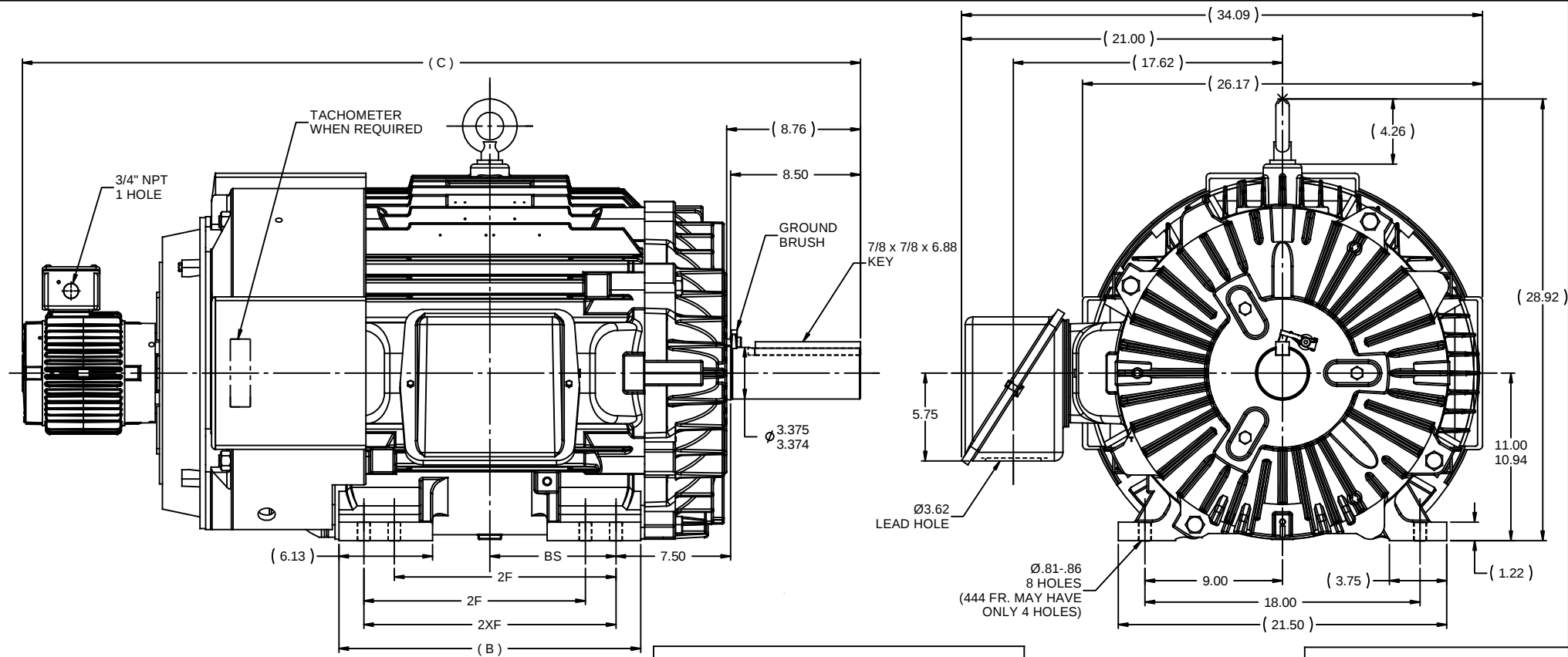
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Nameplate Specifications

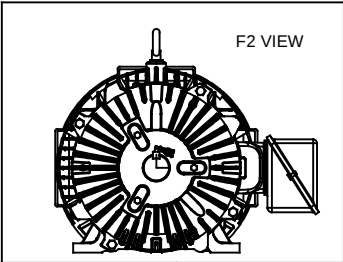
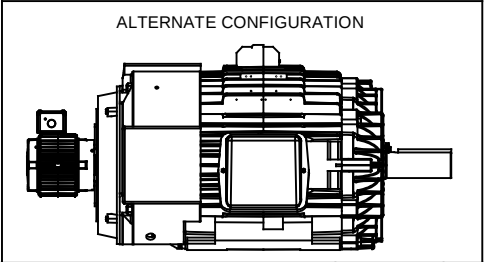
Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	138.0 A	Speed	1785 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	88.5
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	G
Frame	444T	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.0386 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	52.85 in
Frame Length	18.25 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS550049LE-1825	Connection Drawing	A-EE7300T-LE



NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.



DASH	FRAME	B	C	2F	2XF	BS
1825	444T	17.75	52.85	14.50	---	7.25
2025	444/445T	19.75	54.85	14.50	16.50	8.25

					TOLERANCES UNLESS SPECIFIED:		ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN HLB 11-21-2003	
				DEC	INCHES			CHK JHL 11-21-2003	
				X	±.1			APPR JES 11-21-2003	
				XX	±.03	TITLE OUTLINE - TFN 440T FR. - TEBC - AXIAL BLOWER		SCALE 1.6.25	
1	UPDATED FRAME, ADDED ALT. CONFIG. & F2 VIEWS			XXX	±.005			REF	
	PER ISAAC 09-5049 AND MU94218			JJB 2/16/2010	MH XXXX ±.0005			RMF CN 37491	
NO	REVISION			BY & DATE	CHK ANG ±1/2°	FINISH		PAGE OF	
THIRD ANGLE PROJECTION					RFP 11-21-2003	PREV	SIZE B	DRAWING NO SS550049LE	REV 1
					NETWORK FILE NAME	SS550049LE			

THREE PHASE - SINGLE VOLTAGE MOTOR CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

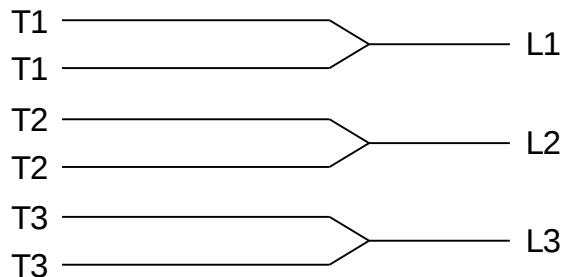
NOTE FOR FACTORY USE ONLY:

TO SURGE TEST:

FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1, THEN P2 TO L1

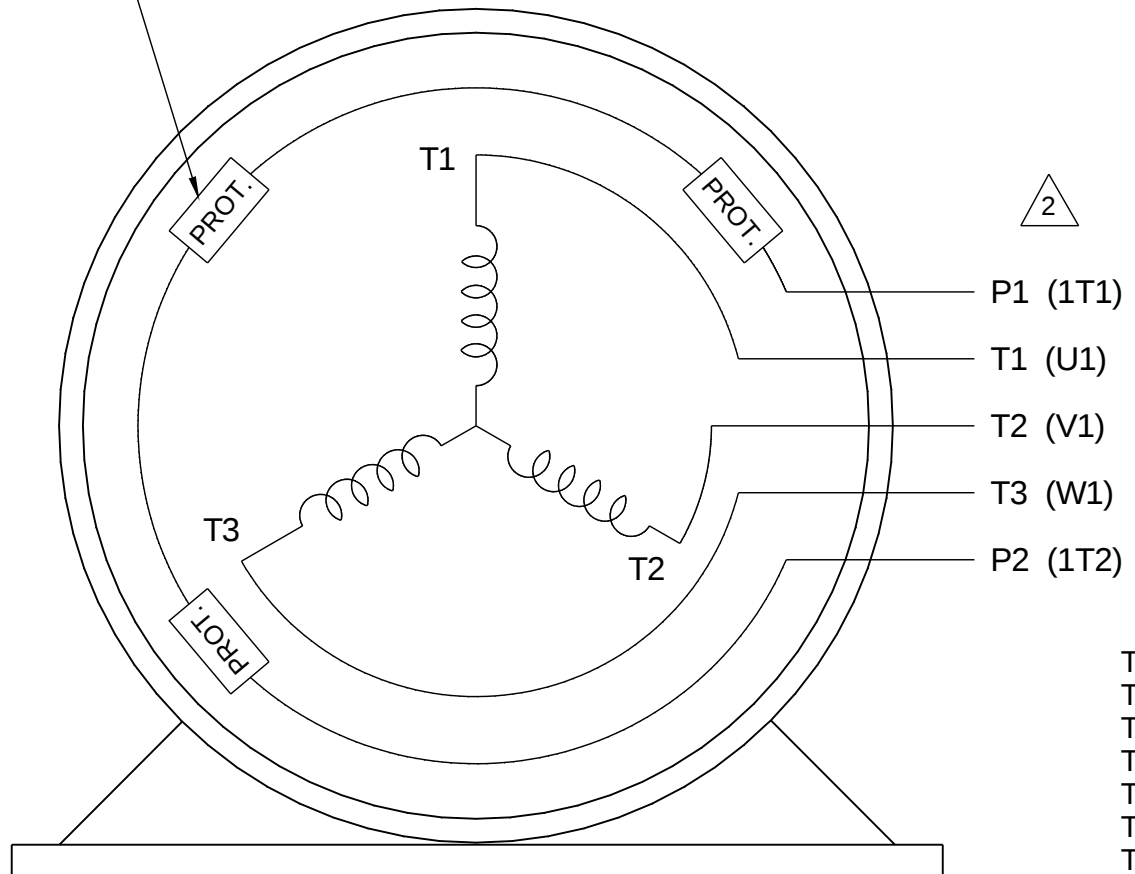
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1

IF MOTOR HAS MULTIPLE T'S PER LEAD
CONNECT TOGETHER LIKE T'S



A-9806 DECAL

3 THERMO - PROTECTORS
CONNECTED IN SERIES



VIEW OF TERMINAL END

T2BM
T6AW
T6AL
T6Z
T4EG
T4BF
T8A
T6H
T6A
T4AX
T4A
T2A
T2F

DRAWING REVISION E	REVISION BY MSG	DATE 10-19-2016
ECO ECO-0111093	APPROVED BY TB	DATE 10-19-2016
ECO DESCRIPTION REDRAWN - REVISED TEXT		
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DRAWN BY NJS	DATE 05-15-2002
APPROVED BY ML	DATE 05-20-2002
REFERENCE	THIRD ANGLE PROJECTION

		ELECTRIC MOTORS GEARMOTORS AND DRIVES	
DESCRIPTION 3 PHASE - SINGLE VOLT - MOTOR WITH PROTECTORS			
MATERIAL		PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300T-LE		SHEET 1 OF 1



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300T-LE
OUTLINE: B-SS550049LE-1825
WINDING: T444480

CAT #: 811369.00

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	1800	1785	444T	TEBC	TBN	G	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	138	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF	94.5	ELECT. TYPE
F.L. PF	88.5	3/4 LD PF	86.5	1/2 LD PF	81.0			SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
367 LB-FT	905	440 LB-FT 120%	975 LB-FT 266%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
88 dBA	97 dBA	43.5 LB-FT²	0 LB-FT²	0 SEC.	0	1950 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	ENCODER	RIGID	HORIZONTAL	NO	NONE	NO	NONE	JE - LEESON (ENAM

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6318	6316						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.031	0.015	0.25	0.17	6.356	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED
	ENCODER: NORTHSTAR ST56 NONE	NONE PPR
DATE: 2/1/2018		BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE UL: Y-(LEESON UL REC)

Data Sheet

Date: 2/1/2018

811369.00



Data @ 460 V

Motor Load Data

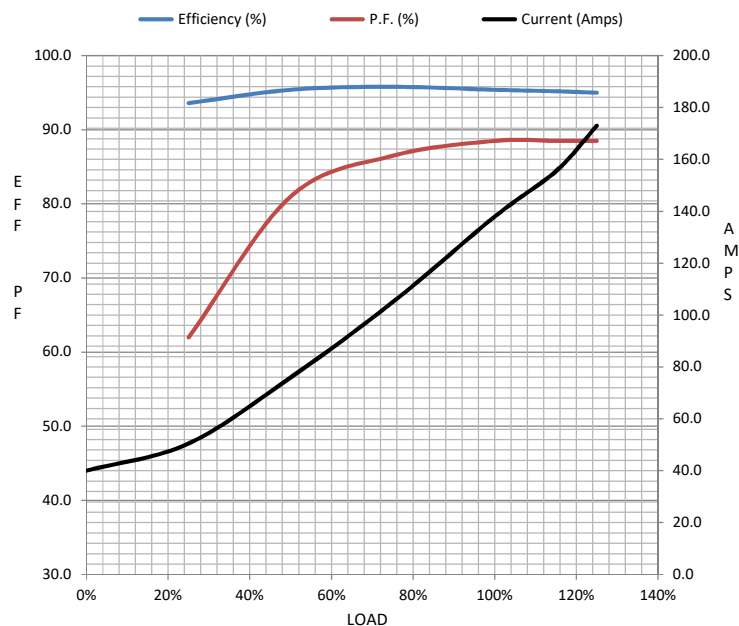
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	40.0	50.5	76.0	105	138	156	173	905	
Torque (ft-lb)	0.00	91.0	183	275	367	414	460	440	
RPM	1800	1795	1792	1790	1785	1,784	1782	0	
Efficiency (%)		93.6	95.4	95.8	95.4	95.2	95.0		
P.F. (%)	9.0	62.0	81.0	86.5	88.5	88.5	88.5	24.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1785	1800
Current (Amps)	905	825	535	138	40.0
Torque (ft-lb)	440	400	975	367	0.00

Information Block

HP	125.0			
Sync. RPM	1800			
Frame	444			
Enclosure	TEBC			
Construction	TBN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	43.5 Lb-Ft²			
Ref Wdg	T444480 NONE			
Sound Pressure @ 1M	88 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS550049LE-1825			
Conn. Diag	A-EE7300T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0310	0.0150	0.2500	0.1700	6.3560



Speed - Torque Curve

