

PRODUCT INFORMATION PACKET

Model No: 811529.00

Catalog No: 811529.00

Encoder Motors, TEBC - Axial, 300 HP, 3 Ph, 60 Hz, 460 V, 1785 RPM, 447/449T Frame



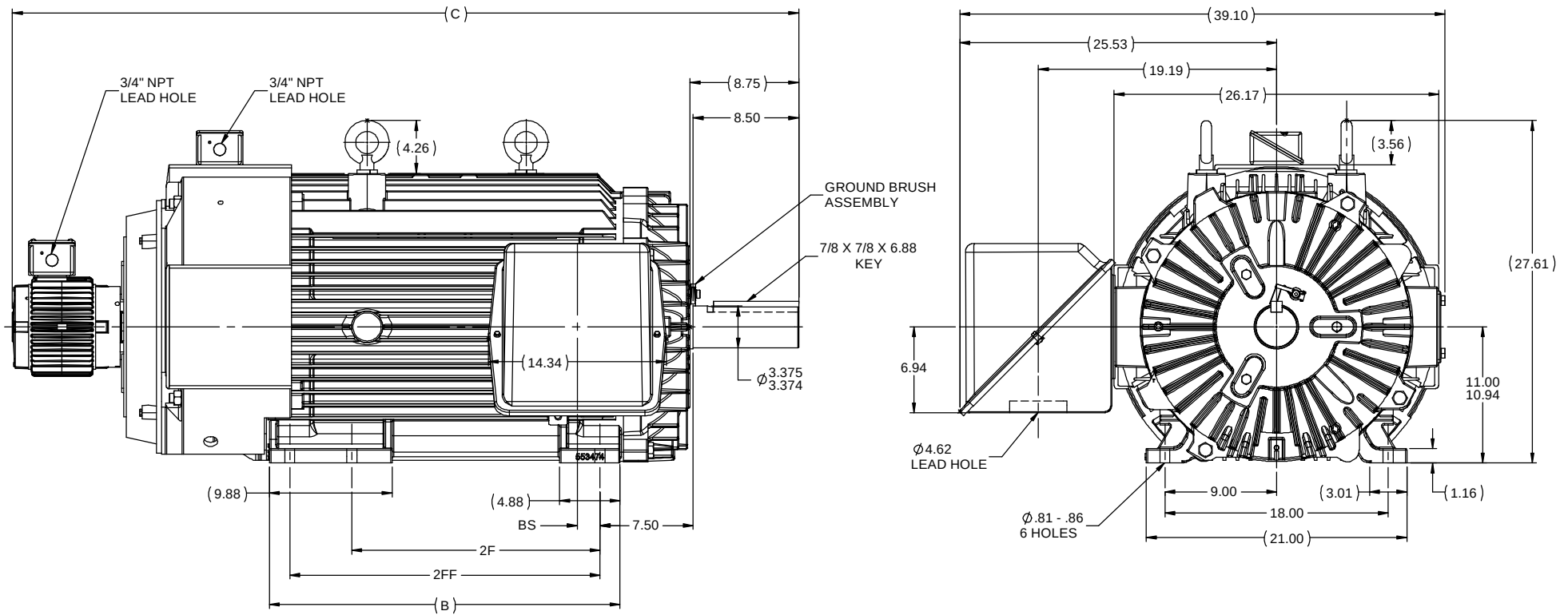
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Nameplate Specifications

Output HP	300 Hp	Output KW	224.0 kW
Frequency	60 Hz	Voltage	460 V
Current	327.0 A	Speed	1785 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	90
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	H
Frame	447/449T	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6318
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	.011 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	63.35 in
Frame Length	28.75 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Connection Drawing	A-EE7300T-LE	Outline Drawing	B-SS550070LE-2875



NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

							TOLERANCES UNLESS SPECIFIED				LEESON	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					SCALE 1:8	
							XXX	±.005					REF	
							1	UPDATED FRAME	MU108079	HV 06-04-2012	MH XXXX	±.0005	MATL	FMF CN 37491
							NO	REVISION		BY & DATE	CHK	ANG	±7°30"	FINISH
							THIRD ANGLE PROJECTION							
							RFP							
							NETWORK FILE NAME SS550070LE							
							PREV							
							SIZE B							
							DRAWING NO SS550070LE							
							PAGE OF							
							REV 1							

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

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

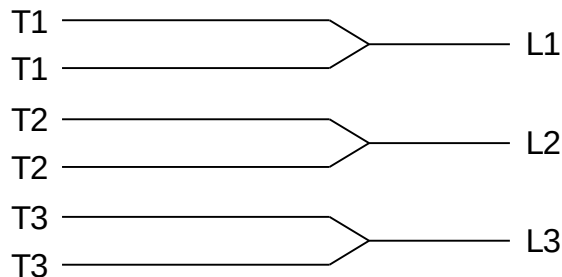
NOTE FOR FACTORY USE ONLY:

TO SURGE TEST:

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

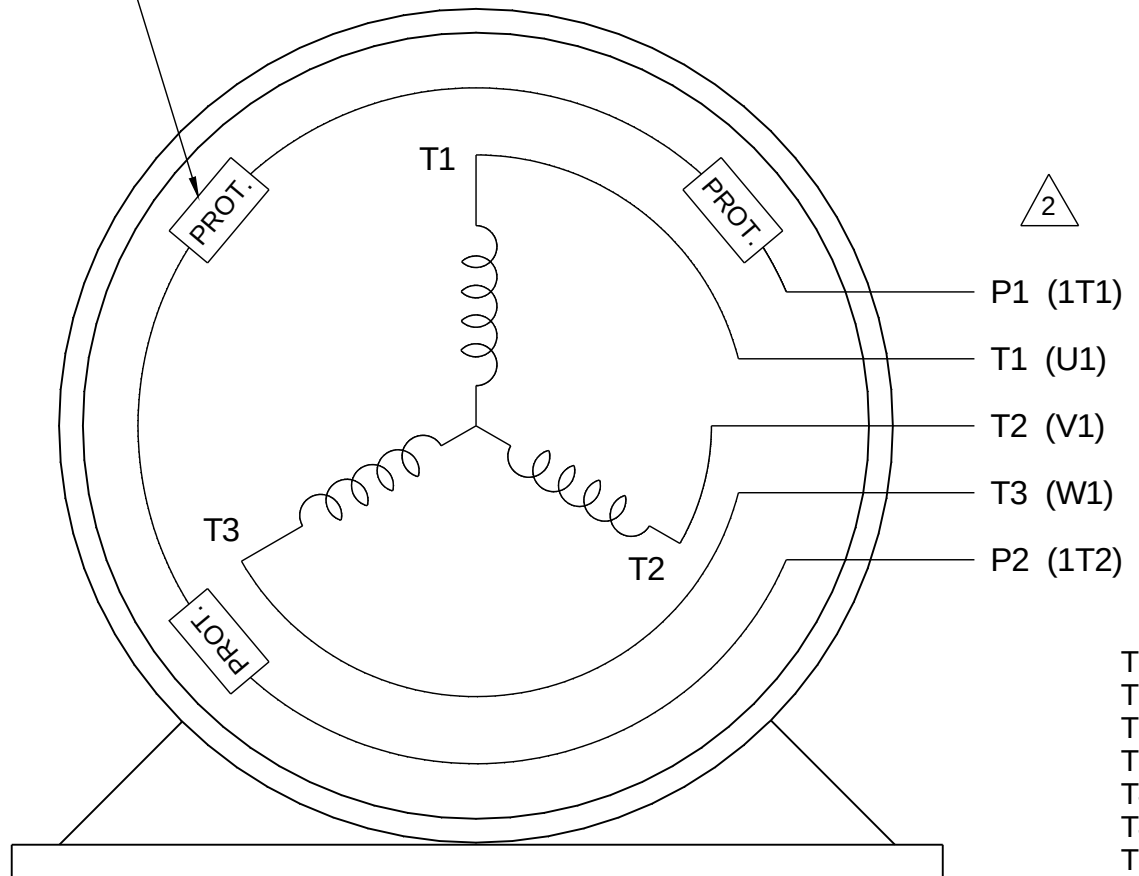
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1

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 CONNECTION DIAGRAM 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-SS550070LE-2875
WINDING: T449470

CAT #: 811529.00

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
300	224	1800	1785	447/449T	TEBC	TBN	H	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	327	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	95.0	GTD EFF		ELECT. TYPE	
F.L. PF	90.0	3/4 LD PF	88.0	1/2 LD PF	82.0	94.5		SQ CAGE INV DUTY	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
883 LB-FT	2,350	1,225 LB-FT 139%	2,475 LB-FT 280%	80

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
88 dBA	97 dBA	87.0 LB-FT²	0 LB-FT²	0 SEC.	0	2950 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
6319	6318						

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
0.009	0.007	0.092	0.075	3.087	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 NONE	
	FT-LB: NA VOLTAGE: NONE	
	UL: Y-(LEESON UL REC)	

Data Sheet

Date: 2/1/2018

811529.00



Data @ 460 V

Motor Load Data

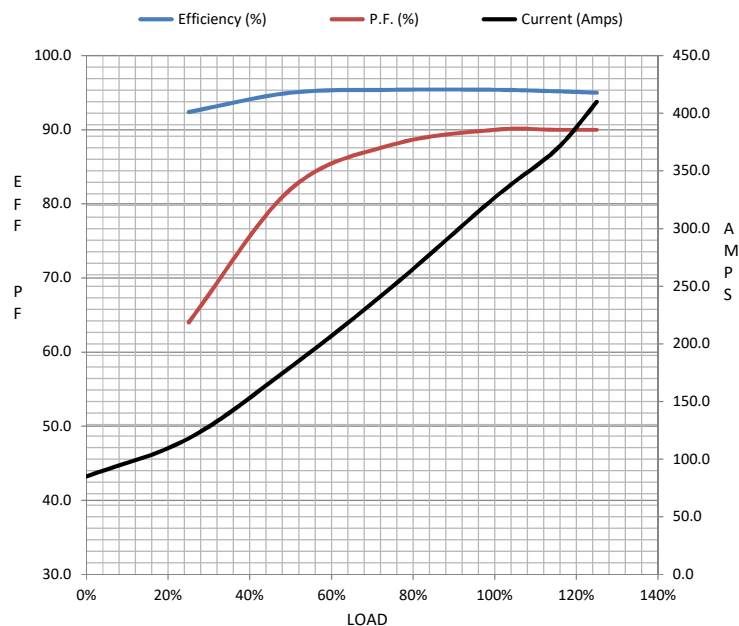
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	85.0	118	180	250	327	369	410	2,350	
Torque (ft-lb)	0.00	220	440	661	883	995	1,106	1,225	
RPM	1800	1796	1792	1788	1785	1,783	1780	0	
Efficiency (%)		92.4	95.0	95.4	95.4	95.2	95.0		
P.F. (%)	6.0	64.0	82.0	88.0	90.0	90.0	90.0	22.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1715	1785	1800
Current (Amps)	2,350	2,100	1,650	327	85.0
Torque (ft-lb)	1,225	1,075	2,475	883	0.00

Information Block

HP	300.0			
Sync. RPM	1800			
Frame	449			
Enclosure	TEBC			
Construction	TBN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	80 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	87.0 Lb-Ft²			
Ref Wdg	T449470 NONE			
Sound Pressure @ 1M	88 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS550070LE-2875			
Conn. Diag	A-EE7300T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0090	0.0070	0.0920	0.0750	3.0870



Speed - Torque Curve

