

# PRODUCT INFORMATION PACKET



Model No: 824570.00

Catalog No: 824570.00

Severe Duty Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM, 447/449TV Frame,  
TEAO



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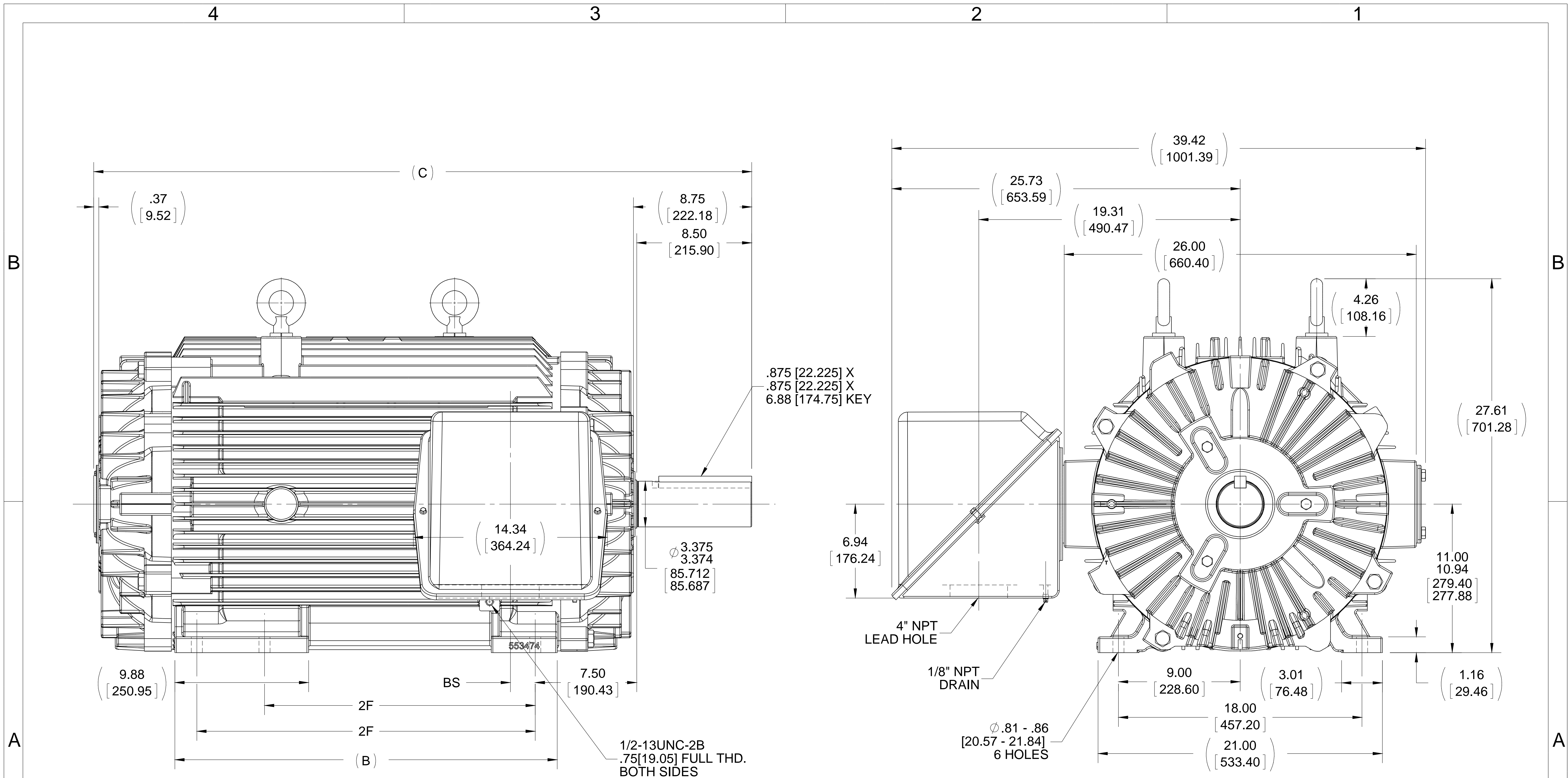
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>250 &amp; 200 Hp</b>
Output KW	<b>187.0 &amp; 149.0 kW</b>	Voltage	<b>460 &amp; 380 V</b>
Speed	<b>1190 &amp; 990 rpm</b>	Service Factor	<b>1.15 &amp; 1.0</b>
Frame	<b>447/449TV</b>	Enclosure	<b>Totally Enclosed Air Over</b>
Thermal Protection	<b>Thermostat</b>	Efficiency	<b>95.8 &amp; 95.8 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>300 &amp; 285 A</b>	Power Factor	<b>81</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Drive End Bearing Size	<b>6319</b>	Opp Drive End Bearing Size	<b>6318</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>56</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.012 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal Or Up Or Down</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>T</b>	Overall Length	<b>48.62 in</b>
Frame Length	<b>28.75 in</b>	Shaft Diameter	<b>3.375 in</b>
Shaft Extension	<b>8.75 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Inverter Load	<b>VARIABLE 10:1</b>		
Connection Drawing	<b>EE7300S</b>	Outline Drawing	<b>SS555769LE-2875</b>

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

DASH	FRAME	B	C	2F	2FF	BS
2875	447T	28.25 [717.55]	48.62 [1234.95]	20.00 [508.00]	---	1.84 [46.74]
2875	449T	28.25 [717.55]	48.62 [1234.95]	---	25.00 [635.00]	1.84 [46.74]

DRAWING REVISION D	REVISION BY AJW	DATE 05-08-2015
ECO ECO-0077392	APPROVED BY JHA	DATE 05-08-2015
ECO DESCRIPTION REMOVED "T" ON CBOX DRAIN		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 DEC. INCH mm ANGLE  
 .X ±0.1 [±2.5] ±7° 30"  
 .XX ±0.03 [±0.76]  
 .XXX ±0.005 [±0.127]  
 .XXXX ±0.0005 [±0.0127]  
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381]  
 CORNER FILLETS: .02 [0.51]  
 MACHINED SURFACES: 200 INCH mm 5.1  
 mm SHOWN IN [BRACKETS]

DRAWN BY HV
DATE 05-30-2013
APPROVED BY DJK
DATE 05-30-2013
REFERENCE
THIRD ANGLE PROJECTION

**REGAL**™ Regal Beloit America, Inc.

DESCRIPTION  
**OUTLINE**  
4478/9T FR. - TEAO - T DRAIN

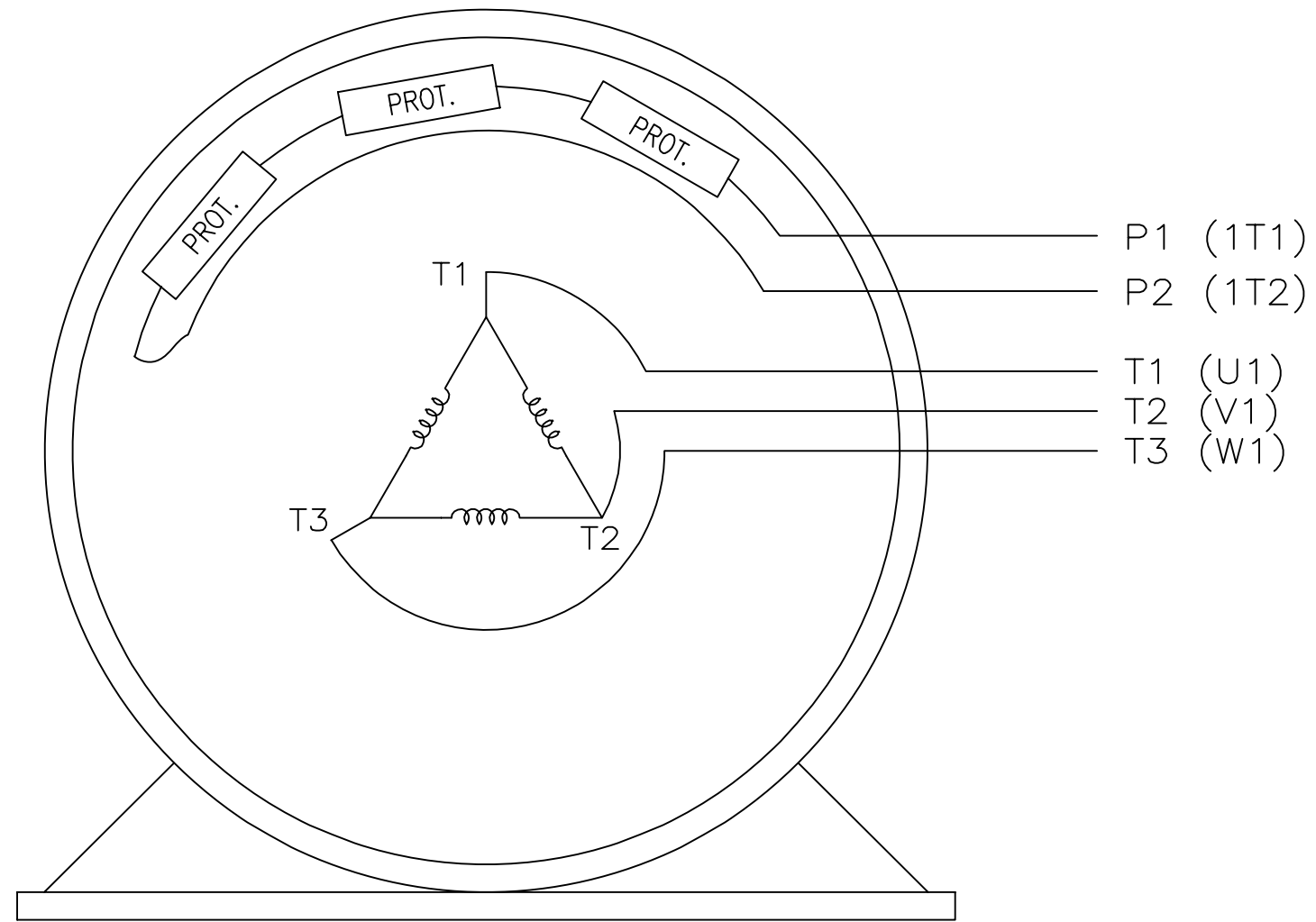
MATERIAL PROCESS/FINISH

SIZE **B** DRAWING NUMBER **SS555769LE** SHEET 1 OF 1

EE7300S

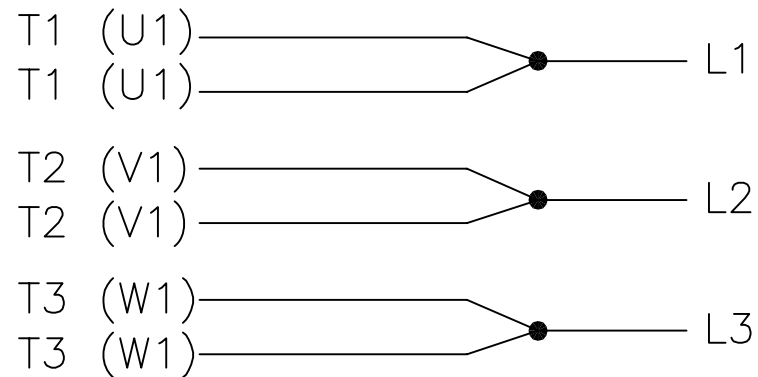
THREE PHASE – SINGLE VOLTAGE MOTOR

TO REVERSE ROTATION:  
INTERCHANGE ANY TWO LINE  
LEAD CONNECTIONS



VIEW OF TERMINAL END

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



A-9806 DECAL

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED			DRAWN	PAGE	OF	REV.		
				DEC.	INCHES							
F	UPDATED TITLE BLOCK	HV 02-27-2014	EWB	.X	±	-	KL	12-15-1999				
3	REMOVED "N.C." FROM PROT.'S MU61770	JJB 08-02-2010		.XX	±	-	CHK	DJK 12-15-1999				
2	ADDED IEC MARKINGS MU61770	KL 09-16-2004	EAB	.XXX	±	-	APPD	DJK 12-15-1999				
1	NEW DRAWING	KL 12-16-1999		.XXXX	±	-			SCALE	1=1		
									REF			
									FMP			
									PREV			
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				DIST	WA-LB-SB			A	EE7300S			F



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



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: A-EE7300S  
 OUTLINE: B-SS555769LE-2875  
 WINDING: T449626

CAT #: 824570.00

R8 8

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	1200	1190	447/449TV	TEAO	TTN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	300&285	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	96.0	1/2 LD EFF	95.4	GTD EFF	95.4	ELECT. TYPE
F.L. PF	81.0	3/4 LD PF	79.0	1/2 LD PF	70.0	95.4		SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
1,103 LB-FT	1,825	1,825 LB-FT 165%	2,825 LB-FT 256%	0

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	138 LB-FT²	3600 LB-FT²	25 SEC.	2	3150 LB.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL OR UP OR DOWN	SEVERE	NONE	NO	NONE	UR - LEESON (EPO)

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
0.008	0.008	0.096	0.129	2.177	0.080	ODE

* N O T E S *	INVERTER TORQUE: VARIABLE 10:1	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE NONE PPR	

DATE: 1/29/2018	BRAKE: NONE	
	NONE NONE NONE	
	FT-LB: NA	HZ:
	VOLTAGE: NONE	
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 1/29/2018

824570.00



Data @ **460 V**

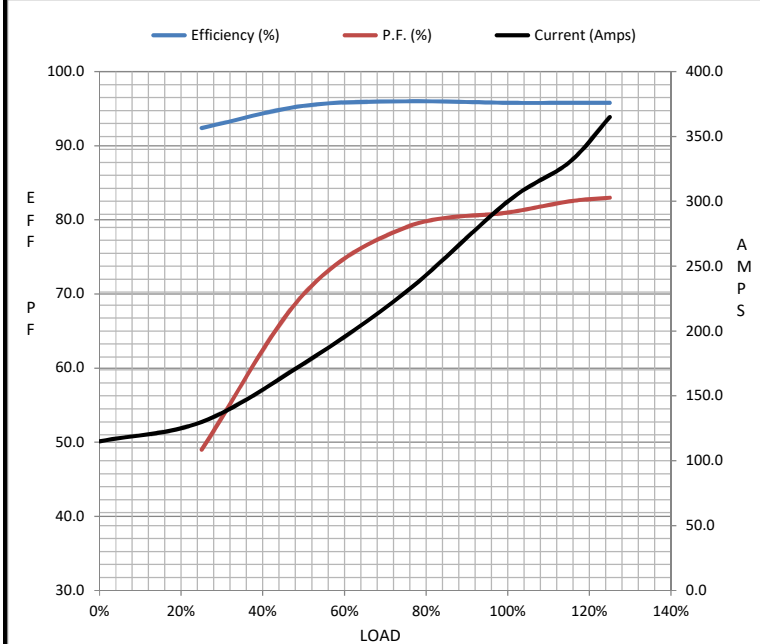
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	115	130	175	230	300	330	365	1,825
Torque (ft-lb)	0.00	275	550	825	1,103	1,245	1,385	1,825
RPM	1200	1196	1194	1192	1190	1,188	1186	0
Efficiency (%)		92.4	95.4	96.0	95.8	95.8	95.8	
P.F. (%)	3.5	49.0	70.0	79.0	81.0	82.5	83.0	23.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1190	1200
Current (Amps)	1,825	1,700	1,125	300	115
Torque (ft-lb)	1,825	1,700	2,825	1,103	0.00

Information Block				
HP	250.0			
Sync. RPM	1200			
Frame	449			
Enclosure	TEAO			
Construction	TTN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	138 Lb-Ft <sup>2</sup>			
Ref Wdg	T449626 R8			
Sound Pressure @ 1M	999 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS55769LE-2875			
Conn. Diag	A-EE7300S			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0080	0.0080	0.0960	0.1290	2.1770



Speed - Torque Curve

