

PRODUCT INFORMATION PACKET



Model No: 811590.00
Catalog No: 811590.00
200 HP Severe Duty Motor, 3 phase, 3600 RPM, 460 V, 445TS Frame, TEFC
Severe Duty Motors



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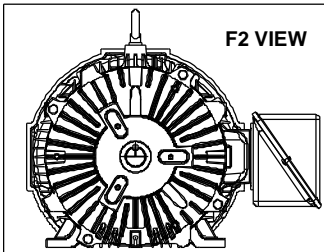
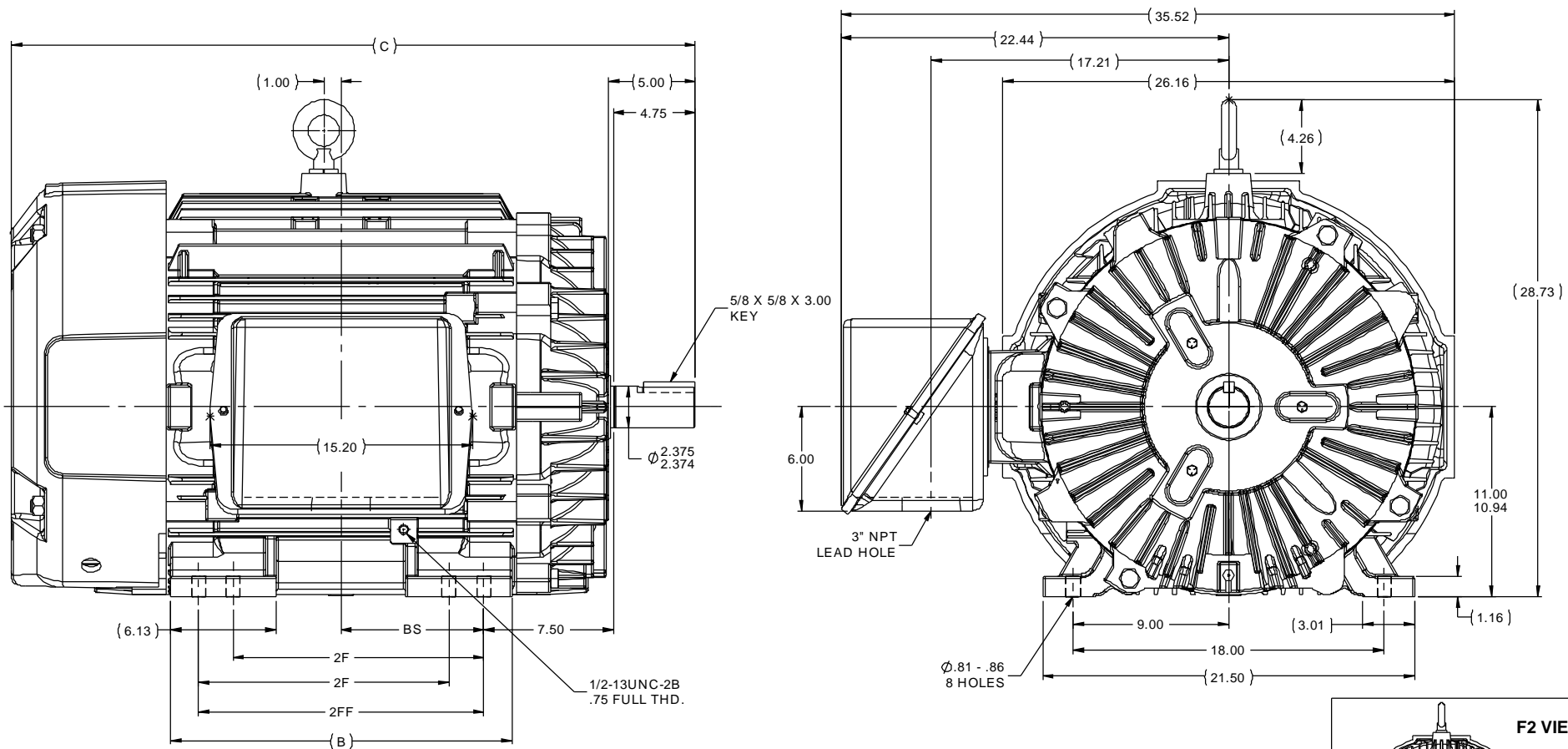
Nameplate Specifications

Output HP	200 Hp	Output KW	149.0 kW
Frequency	60 Hz	Voltage	460 V
Current	224.0 A	Speed	3575 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.0125 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	39.60 in
Frame Length	20.25 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300U-LE	Outline Drawing	B-SS516995LE-2025

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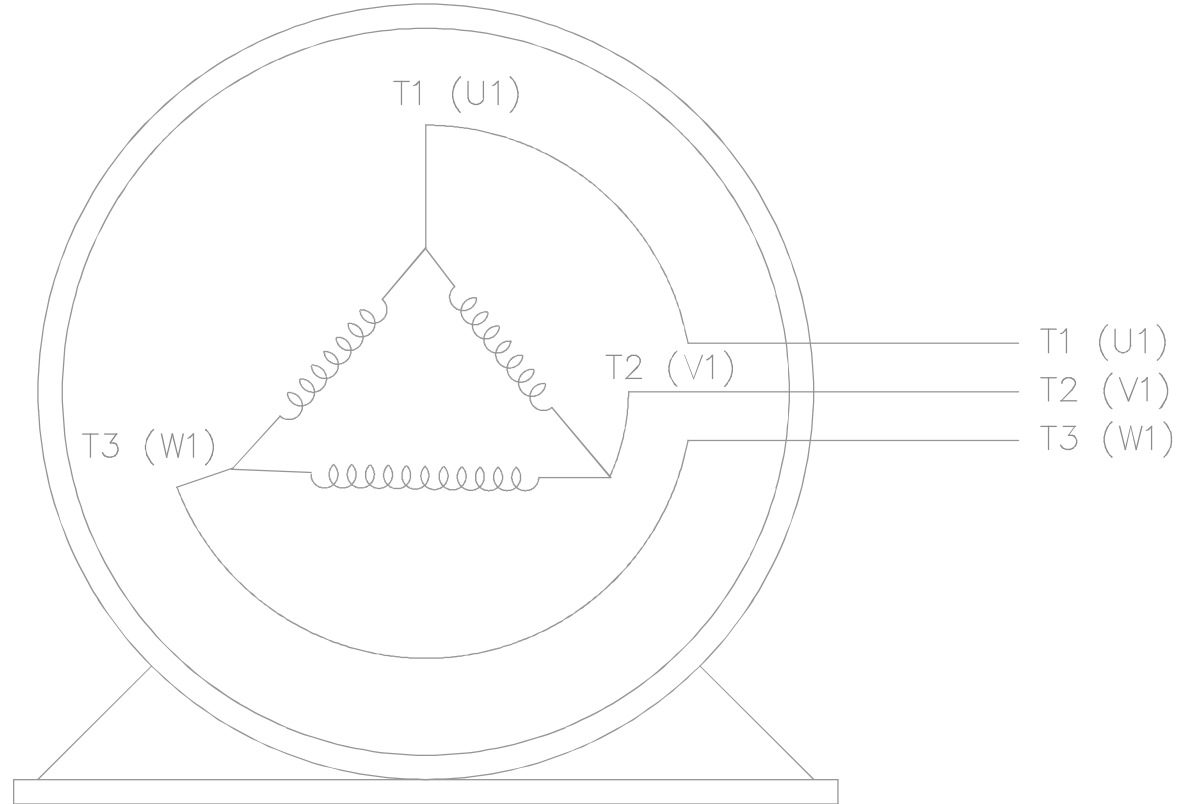


- NOTES:**
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
2025	444/445TS	19.75	39.60	14.50	16.50	8.25

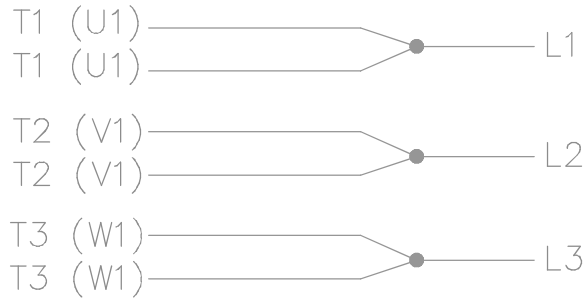
TOLERANCES UNLESS SPECIFIED		DEC INCHES		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN	HV 03-19-2013
					CHK	MH 03-19-2013
X	±.1				APPR	DJK 03-20-2013
XX	±.03	TITLE	OUTLINE - TEFC		SCALE	1:6
XXX	±.005		444/445TS FR. - OVER SIZE C' BOX		REF	
XXXX	±.0005	MAT'L		FMF	MU112478	
CHK	ANG ±7'30"	FINISH		PAGE	OF	
RFP		PREV		SIZE	DRAWING NO	REV
NETWORK FILE NAME SS516995LE				B	SS516995LE	





VIEW OF TERMINAL END

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



TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ± -

.XX ± -

.XXX ± -

.XXXX ± -

CHK ANG ± -



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

TITLE CONNECTION DIAGRAM
3Ø SINGLE VOLTAGE

MAT'L.

FINISH

DRAWN KL 03-24-2003

CHK GFH 03-24-2003

APPD JES 03-24-2003

SCALE 1=1

REF

FMF

PREV

1	NEW DRAWING	MU45909	KL	03-24-2003
NO.	REVISION		BY &	DATE

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IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED
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RFP

DIST WA

CAD FILE EE7300U-LE

SIZE	DRAWING NO.	PAGE	OF	REV.
A	EE7300U-LE			1

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



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300U-LE
 OUTLINE: B-SS516995LE-2025
 WINDING: T445280

CAT #: 811590.00

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	3600	3575	445TS	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	224	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.0	1/2 LD EFF	94.1	GTD EFF	95.0	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	88.0	3/4 LD PF	85.5	1/2 LD PF	78.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
294 LB-FT	1,450	500 LB-FT 170%	870 LB-FT 296%	75

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
80 dBA	89 dBA	33.5 LB-FT²	160 LB-FT²	15 SEC.	2	2300 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	UM SEVERE	DIVISION 2 T2B	NO	NONE	EEN - LEESON (EPC)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6313	6313						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	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
0.01	0.009	0.121	0.092	3.834	0.080	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 2:1	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE NONE PPR	

DATE: 3/1/2018	BRAKE: NONE	
	NONE NONE NONE	
	FT-LB: NA	HZ:
	VOLTAGE: NONE	
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 1/29/2018

811590.00



Data @ 460 V

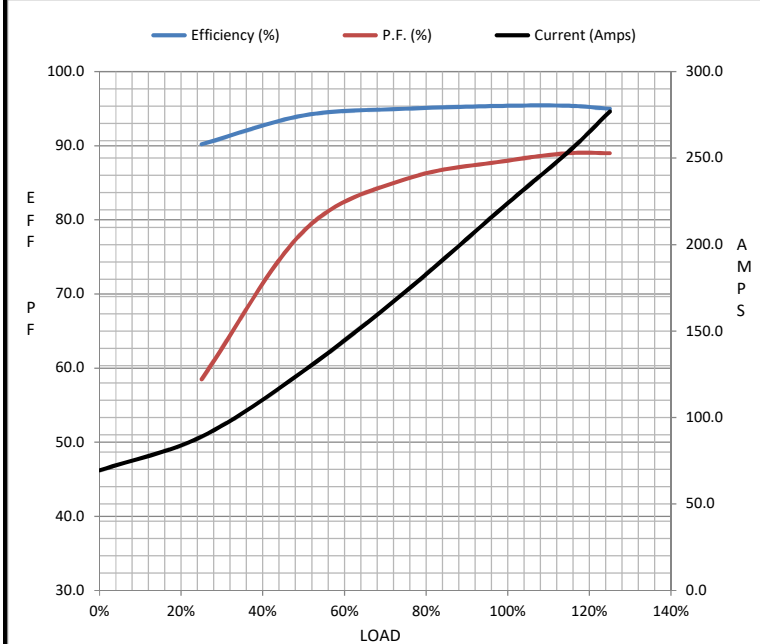
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	69.5	89.0	127	173	224	254	277	1,450
Torque (ft-lb)	0.00	73.0	147	220	294	338	368	500
RPM	3600	3595	3590	3580	3575	3,570	3565	0
Efficiency (%)		90.2	94.1	95.0	95.4	95.4	95.0	
P.F. (%)	6.8	58.5	78.5	85.5	88.0	89.0	89.0	25.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3430	3575	3600
Current (Amps)	1,450	1,210	950	224	69.5
Torque (ft-lb)	500	415	870	294	0.00

Information Block				
HP	200.0			
Sync. RPM	3600			
Frame	445			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	33.5 Lb-Ft ²			
Ref Wdg	T445280 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS516995LE-2025			
Conn. Diag	A-EE7300U-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0100	0.0090	0.1210	0.0920	3.8340



Speed - Torque Curve

