

PRODUCT INFORMATION PACKET



Model No: 811569.00
Catalog No: 811569.00
75 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 365T Frame, TEFC
Severe Duty Motors



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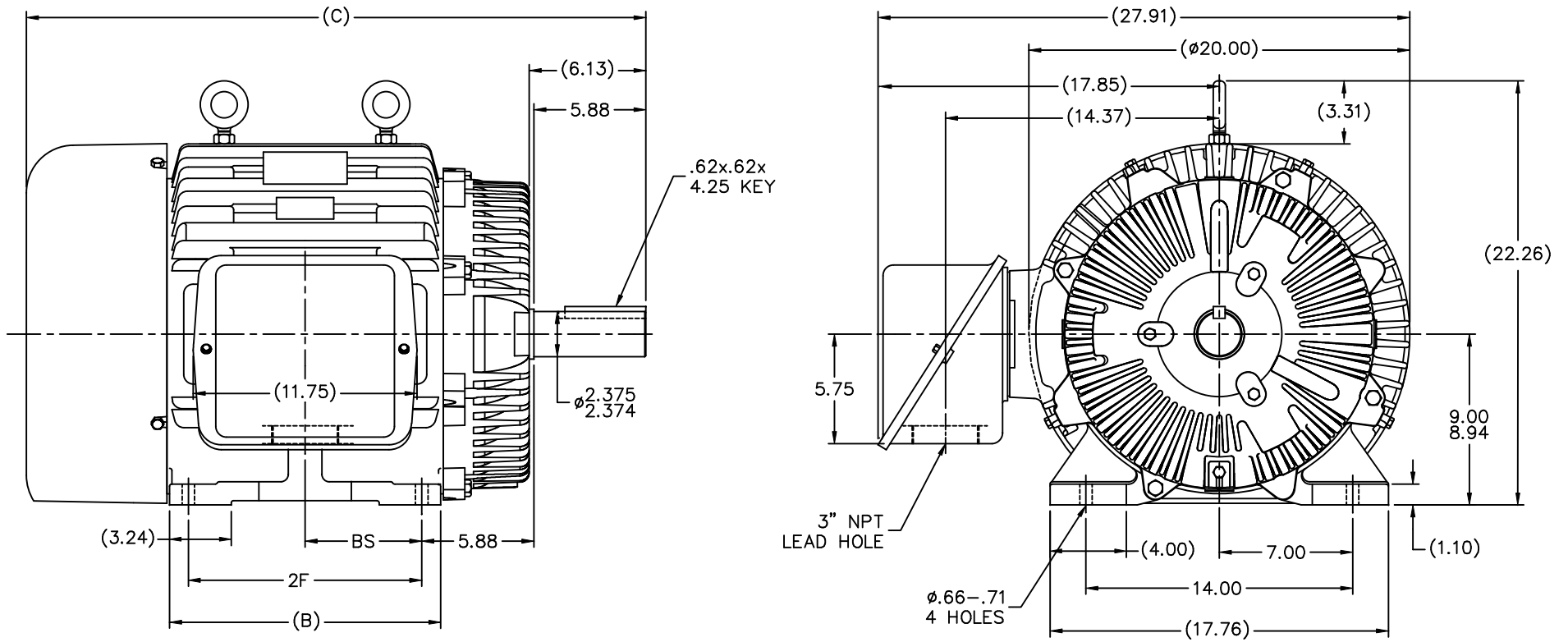
Nameplate Specifications

Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	460 V
Current	86.0 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	365T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6312
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	4	Rotation	Reversible
Resistance Main	.075 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	14.25 in
Frame Length	14.50 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS508590LE-1450	Connection Drawing	A-EE7300U-LE

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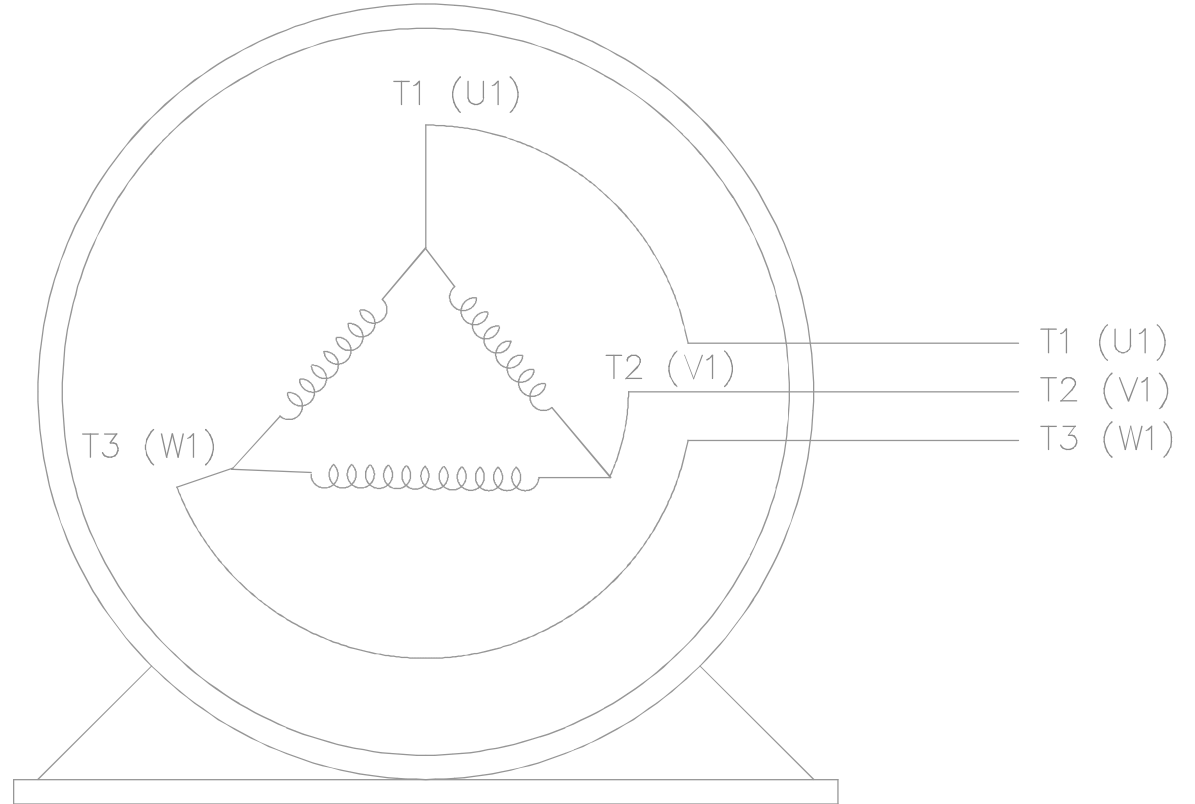


- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

(B-SS504688)

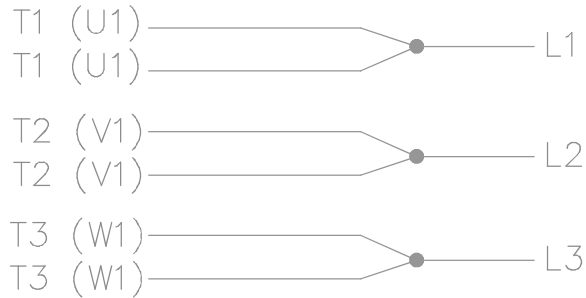
DASH	FRAME	B	C	2F	BS	NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	MATL	FINISH	PREV
1350	364T	13.25	31.50	11.25	5.62									
1450	365T	14.25	32.50	12.25	6.12									

TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN KL 02-16-2004
DEC.	INCHES		CHK ML 02-16-2004
.X	±.1		APPD JES 02-16-2004
.XX	±.03		SCALE 3=16
.XXX	±.005		REF
.XXXX	±.0005	TITLE OUTLINE - TEFC 360T FR. - TAPPED LEAD HOLE	FMF MU80127
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		DIST WA	CAD FILE SS508590LE
		SIZE B	DRAWING NO. SS508590LE
			PAGE OF



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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SIZE

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REV.

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-SS508590LE-1450
 WINDING: T367405

CAT #: 811569.00

NONE 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1800	1780	365T	TEFC	TFS	G	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	86	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	95.0	GTD EFF	95.0	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	86.0	3/4 LD PF	83.5	1/2 LD PF	76.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
221 LB-FT	542	445 LB-FT 201%	575 LB-FT 260%	80

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	18.5 LB-FT²	500 LB-FT²	25 SEC.	2	1050 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	IN - LEESON WATTS

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
6314	6312						

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
0.056	0.036	0.319	0.386	9.242	0.080	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: NONE	
	ENCODER: NONE NONE NONE	
	NONE PPR	
	BRAKE: NONE NONE NONE	
	FT-LB: NA VOLTAGE: NONE HZ:	

DATE: 1/29/2018

UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/29/2018

811569.00



Data @ 460 V

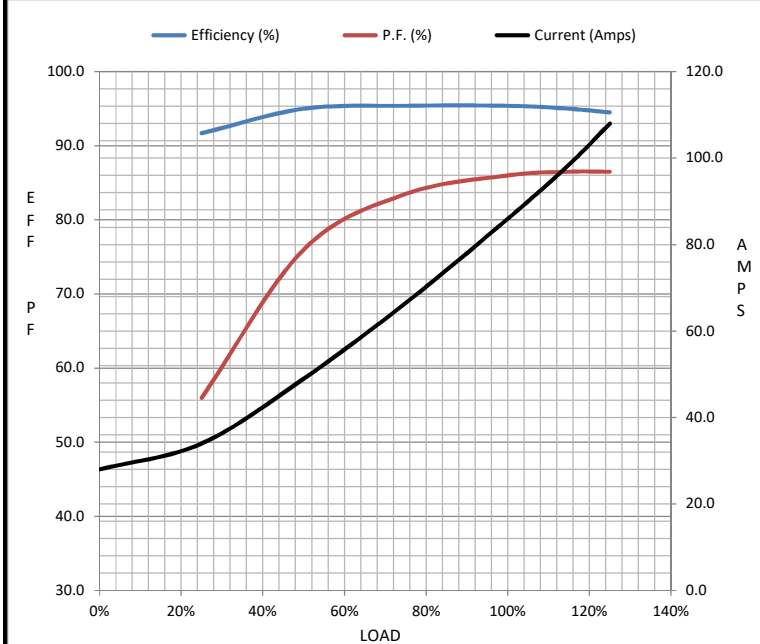
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	28.0	34.0	49.0	66.5	86.0	98.5	108	542
Torque (ft-lb)	0.00	55.0	110	166	221	255	278	445
RPM	1800	1795	1790	1785	1780	1.775	1772	0
Efficiency (%)		91.7	95.0	95.4	95.4	95.0	94.5	
P.F. (%)	4.5	56.0	76.0	83.5	86.0	86.5	86.5	35.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1780	1800
Current (Amps)	542	500	300	86.0	28.0
Torque (ft-lb)	445	375	575	221	0.00

Information Block				
HP	75.0			
Sync. RPM	1800			
Frame	365			
Enclosure	TEFC			
Construction	TFS			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	80 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	18.5 Lb-Ft ²			
Ref Wdg	T367405 NONE			
Sound Pressure @ 1M	68 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS508590LE-1450			
Conn. Diag	A-EE7300U-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0560	0.0360	0.3190	0.3860	9.2420



Speed - Torque Curve

