

PRODUCT INFORMATION PACKET



Model No: 811570.00
Catalog No: 811570.00
100 HP Severe Duty Motor, 3 phase, 3600 RPM, 460 V, 405TS Frame, TEFC
Severe Duty Motors



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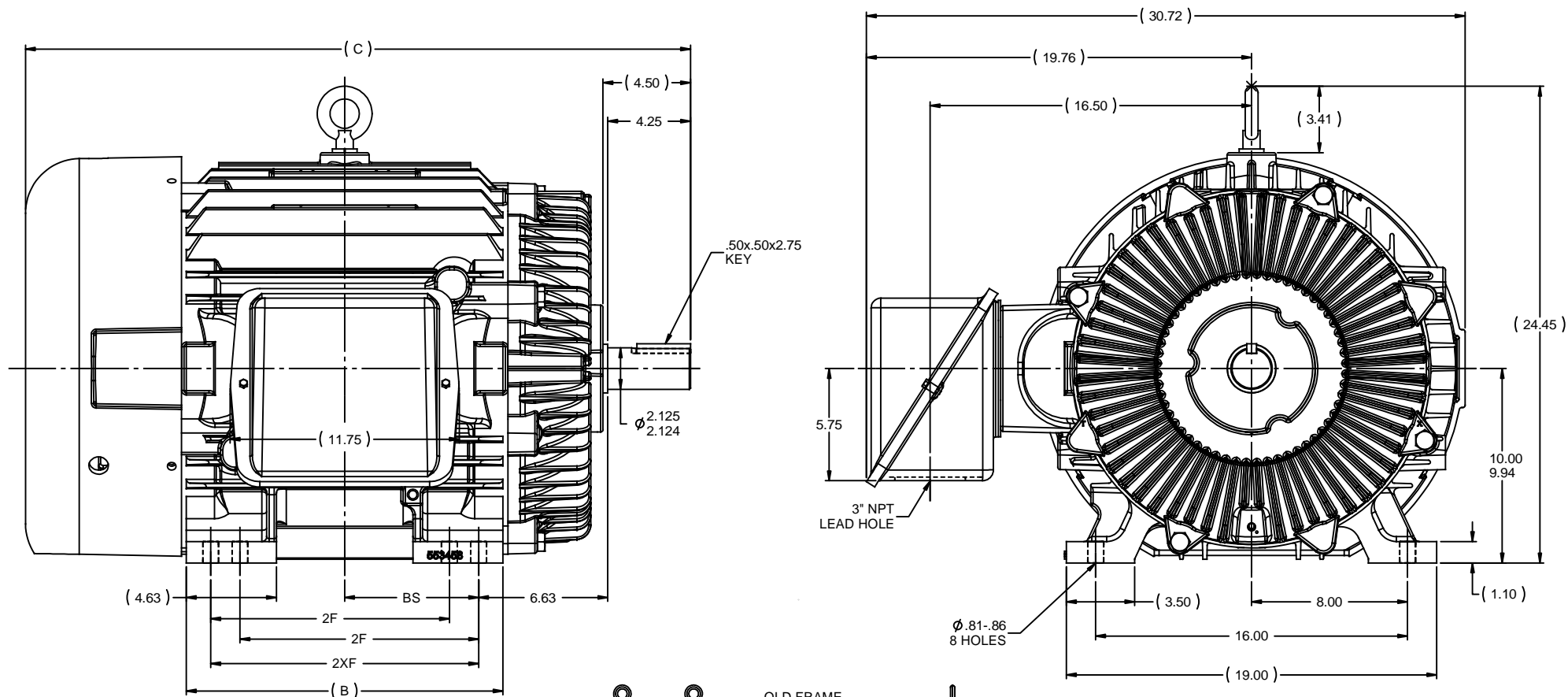
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	460 V
Current	108.0 A	Speed	3565 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	91.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	405TS	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		

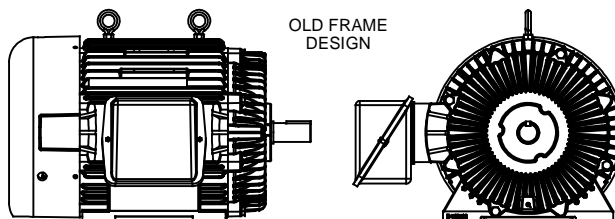
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.051 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	34.13 in
Frame Length	16.75 in	Shaft Diameter	2.125 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300U-LE	Outline Drawing	B-SS509125-1675

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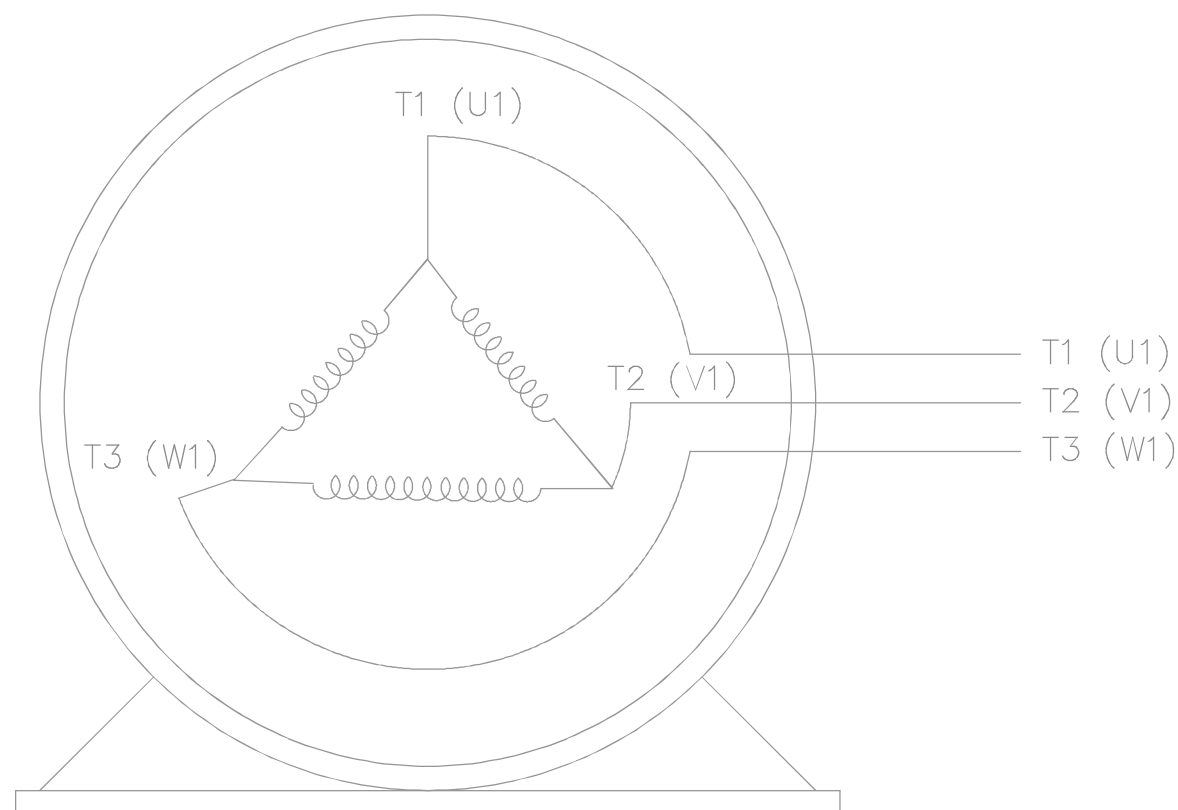


- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

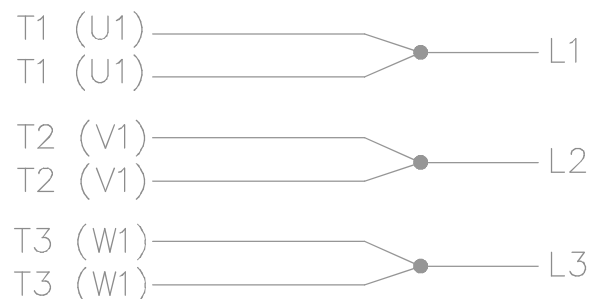


DASH	FRAME	B	C	BS	2F	2XF
1525	404TS	14.75	32.63	6.12	12.25	---
1675	404/405TS	16.25	34.13	6.88	12.25	13.75


				TOLERANCES UNLESS SPECIFIED			DRAWN TLB 05-19-1988	
NO	REVISION	BY	DATE	CHK	ANG		CHK	FG 05-20-1988
8	REDRAWN IN SOLIDWORKS W/ L.W. FRAME MU98878	EDK	11/29/2010	MH	DEC	INCHES	APPR	ML 05-22-1998
7	UPDATED FRAME & ADDED 404 INFO CN27430	KL	10-25-2005	X		±.1		
6	REDRAWN IN AUTOCAD	TAT	06-29-2004	.XX		±.03		SCALE 1:5
5	ADDED NEMA 'O' DIM.	MRB	09-12-1996	.XXX		±.005		REF
4	REDRAWN ON CADD	TLB	05-19-1988	.XXX		±.0005		FMF
				CHK	ANG	±7'30"	PAGE OF	
				RFP		PREV	SIZE	DRAWING NO
				NETWORK FILE NAME SS509125			B	SS509125
								REV
								8



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



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES			DRAWN KL 03-24-2003			
				DEC.	INCHES					CHK GFH 03-24-2003			
				.X	± -					APPD JES 03-24-2003			
				.XX	± -					SCALE 1=1			
				.XXX	± -	TITLE CONNECTION DIAGRAM 3ø SINGLE VOLTAGE							
1	NEW DRAWING	MU45909	KL 03-24-2003		.XXXX	± -	MAT'L.						
NO.	REVISION		BY & DATE	CHK	ANG	± -	FINISH						
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP		CAD FILE EE7300U-LE			SIZE	DRAWING NO. PAGE OF		REV.	
				DIST WA					A	EE7300U-LE		1	



**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CATALOG #: 811570.00

CONN. DIAGRAM: A-EE7300U-LE

OUTLINE: B-SS509125-1675

MOUNTING: F1/F2 CAPABLE

WINDING #: T405247 R3 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100	75.0	3600	3565	405TS	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	108	LINE OR INVERTER	CONTINUOUS	F1	1.15	40

FULL LOAD EFF:	94.5	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94.1	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	91.5	3/4 LOAD PF:	90.5	1/2 LOAD PF:	86	93.6	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
147 LB-FT	725	230 LB-FT 156 %	410 LB-FT 279 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	16.5 LB-FT^2	65 LB-FT^2	20 SEC.	2	1300 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	FALSE	NONE	GREEN - LEESON WATTSaver

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						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: CONSTANT 10:1

INV. HP SPEED RANGE: NONE

ENCODER: NONE

NONE NONE

NONE NONE PPR

BRAKE: NONE NONE

NONE P/N NONE

NONE NONE

NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/17/2018

811570.00



Data @ 460 V

Motor Load Data

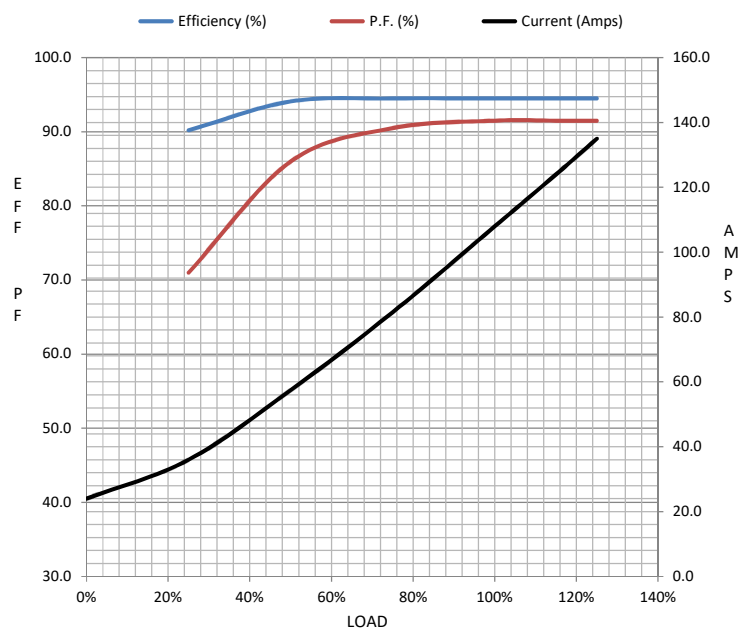
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.0	36.0	57.5	81.5	108	124	135	725	
Torque (ft-lb)	0.00	36.5	73.5	110	147	170	185	230	
RPM	3600	3592	3582	3572	3565	3,560	3555	0	
Efficiency (%)		90.2	94.1	94.5	94.5	94.5	94.5		
P.F. (%)	7.5	71.0	86.0	90.5	91.5	91.5	91.5	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3415	3565	3600
Current (Amps)	725	650	425	108	24.0
Torque (ft-lb)	230	200	410	147	0.00

Information Block

HP	100.0			
Sync. RPM	3600			
Frame	405			
Enclosure	TEFC			
Construction	TFS			
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	16.5 Lb-Ft²			
Ref Wdg	T405247 R3			
Sound Pressure @ 1M	80 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS509125-1675			
Conn. Diag	A-EE7300U-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0390	0.0240	0.2690	0.2040	10.8200



Speed - Torque Curve

