

PRODUCT INFORMATION PACKET



Model No: 811562.00
Catalog No: 811562.00
40 HP Severe Duty Motor, 3 phase, 3600 RPM, 460 V, 324TS Frame, TEFC
Severe Duty Motors



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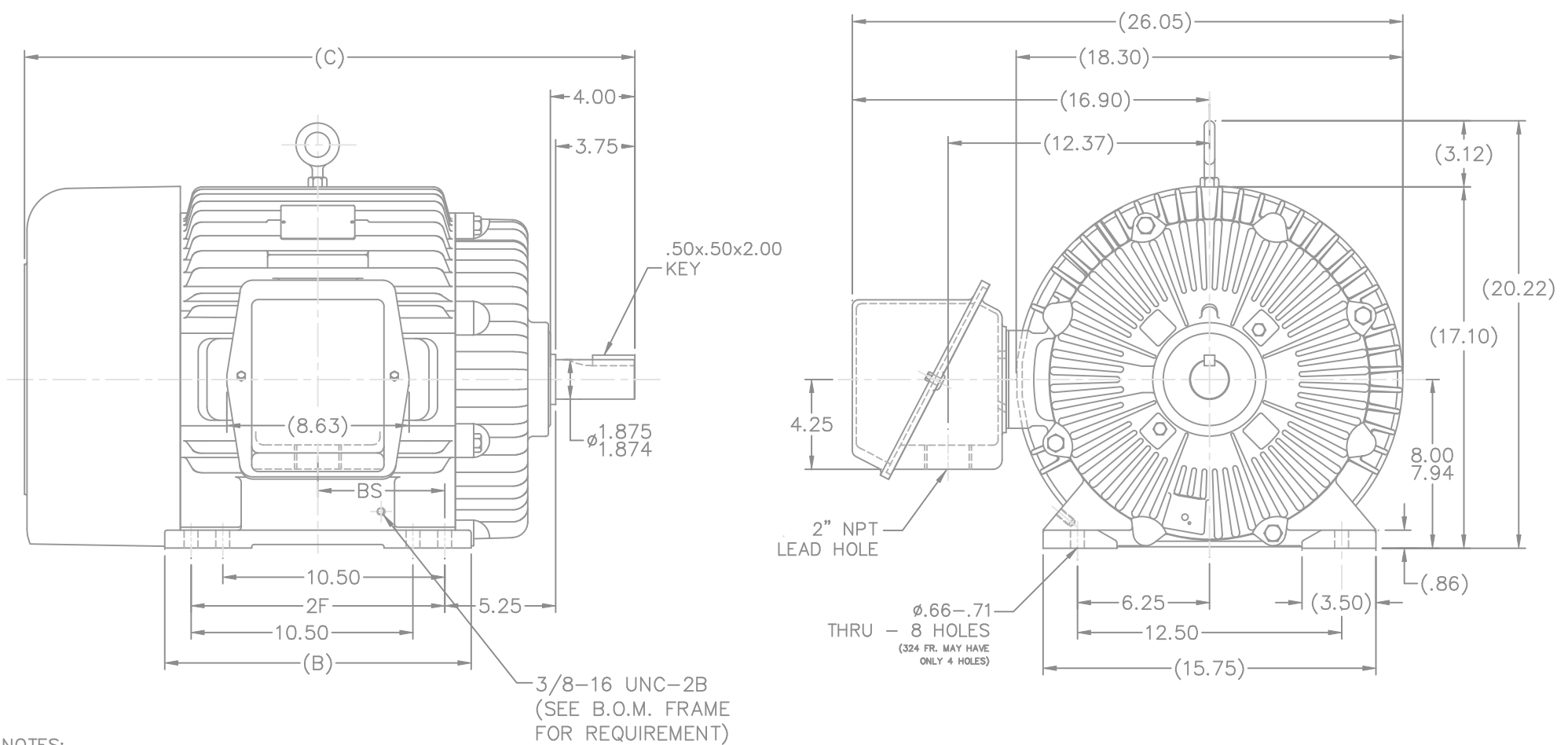
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	460 V
Current	47.0 A	Speed	3545 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	324TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	312	Opp Drive End Bearing Size	311
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	.122 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	27.37 in
Frame Length	11.50 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300U-LE	Outline Drawing	B-SS301080LE-1150

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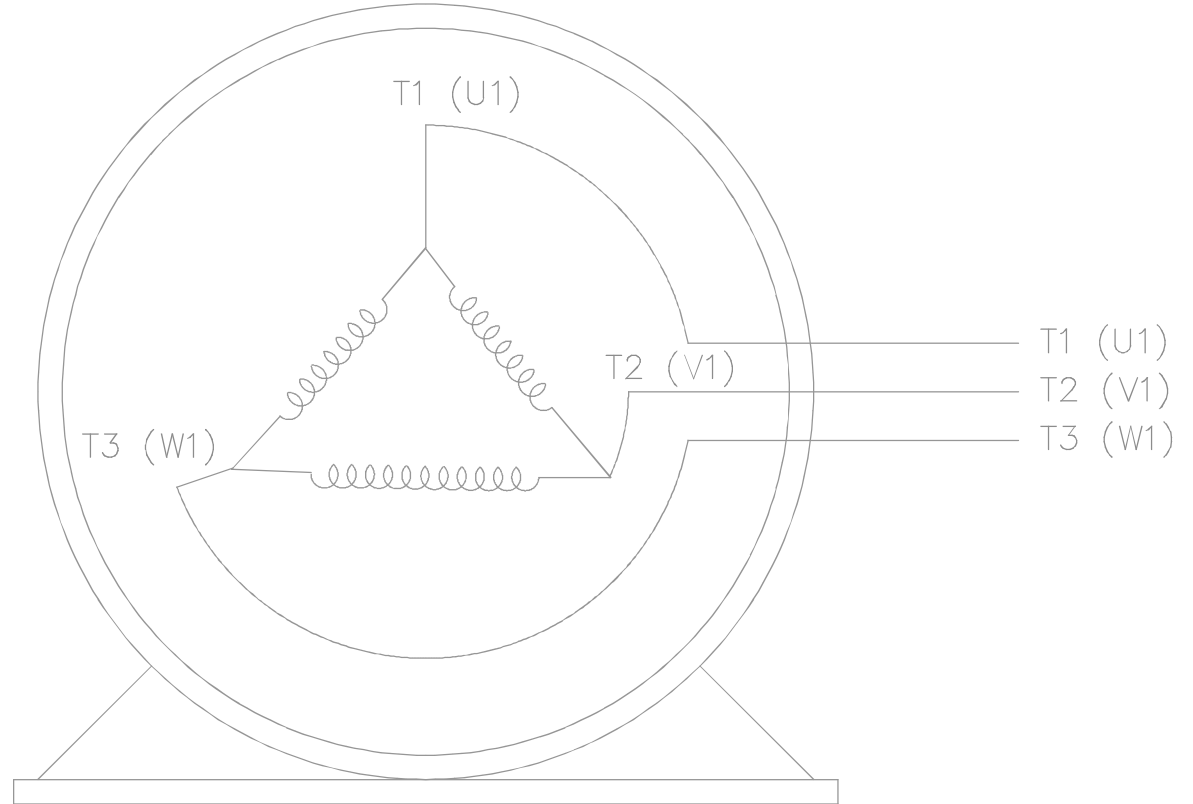


- NOTES:
 1. BOX CAN BE ROTATED IN 90° STEPS.
 2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

3/8-16 UNC-2B
 (SEE B.O.M. FRAME
 FOR REQUIREMENT)

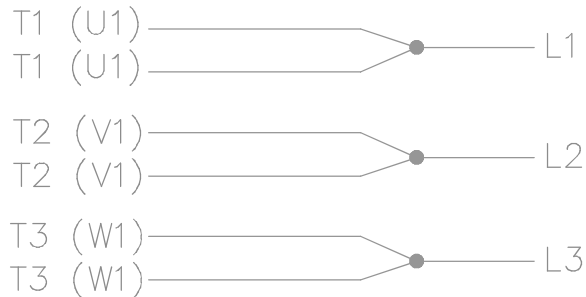
DASH	FR.	C	B	BS	2F
1150	324TS	27.37	13.00	5.25	10.50
1300	324/6TS	28.87	14.50	6.00	12.00


		TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN RWR 10-29-2008	
		DEC.	INCHES			CHK	ML 10-29-2008
		.X	±.1	TITLE OUTLINE		SCALE 1=5	
		.XX	±.03	320TS FRAME -TEFC		REF B-SS301080	
		.XXX	±.005	MAT'L		FMF MU87713	
		.XXX	±.0005	FINISH		PREV	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	SIZE	DRAWING NO. PAGE 1 OF 1 REV.
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	10-29-2008	CAD FILE	SS301080LE
				DIST	LB	B	SS301080LE



VIEW OF TERMINAL END

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



				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN KL 03-24-2003		
				DEC.	INCHES		CHK GFH 03-24-2003	APPD JES 03-24-2003	
				.X	± -	TITLE CONNECTION DIAGRAM 3Ø SINGLE VOLTAGE MAT'L. FINISH	SCALE 1=1	REF	
				.XX	± -			FMF	
				.XXX	± -			PREV	
				.XXXX	± -				
1	NEW DRAWING	MU45909	KL 03-24-2003	CHK	ANG	± -			
NO.	REVISION		BY & DATE	CHK	ANG	± -	SIZE	DRAWING NO. PAGE OF REV.	
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				DIST	WA				

Data Sheet

Date: 2/1/2018

811562.00



Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	14.7	18.5	26.0	35.5	47.0	53.0	54.5	275
Torque (ft-lb)	0.00	14.5	29.5	44.0	59.5	68.5	74.5	91.5
RPM	3600	3590	3575	3560	3545	3,540	3530	0
Efficiency (%)		87.5	92.4	93.6	93.6	93.6	93.0	
P.F. (%)	9.3	56.0	76.0	83.0	85.0	86.0	86.5	29.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3300	3545	3600
Current (Amps)	275	248	172	47.0	14.7
Torque (ft-lb)	91.5	82.0	157	59.5	0.00

Information Block				
HP	40.0			
Sync. RPM	3600			
Frame	324			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	4.9 Lb-Ft ²			
Ref Wdg	324248 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS301080LE-1150			
Conn. Diag	A-EE7300U-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0750	0.0720	0.6480	0.4750	18.6730

