

PRODUCT INFORMATION PACKET

Model No: 449TSTFS6502
Catalog No: E698
300 HP, Severe Duty Motor, 3 phase, 3600 RPM, 460 V, 449TS Frame, TEFC
Severe Duty Motors



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2021 Regal Rexnord Corporation, All Rights Reserved. MC017097E



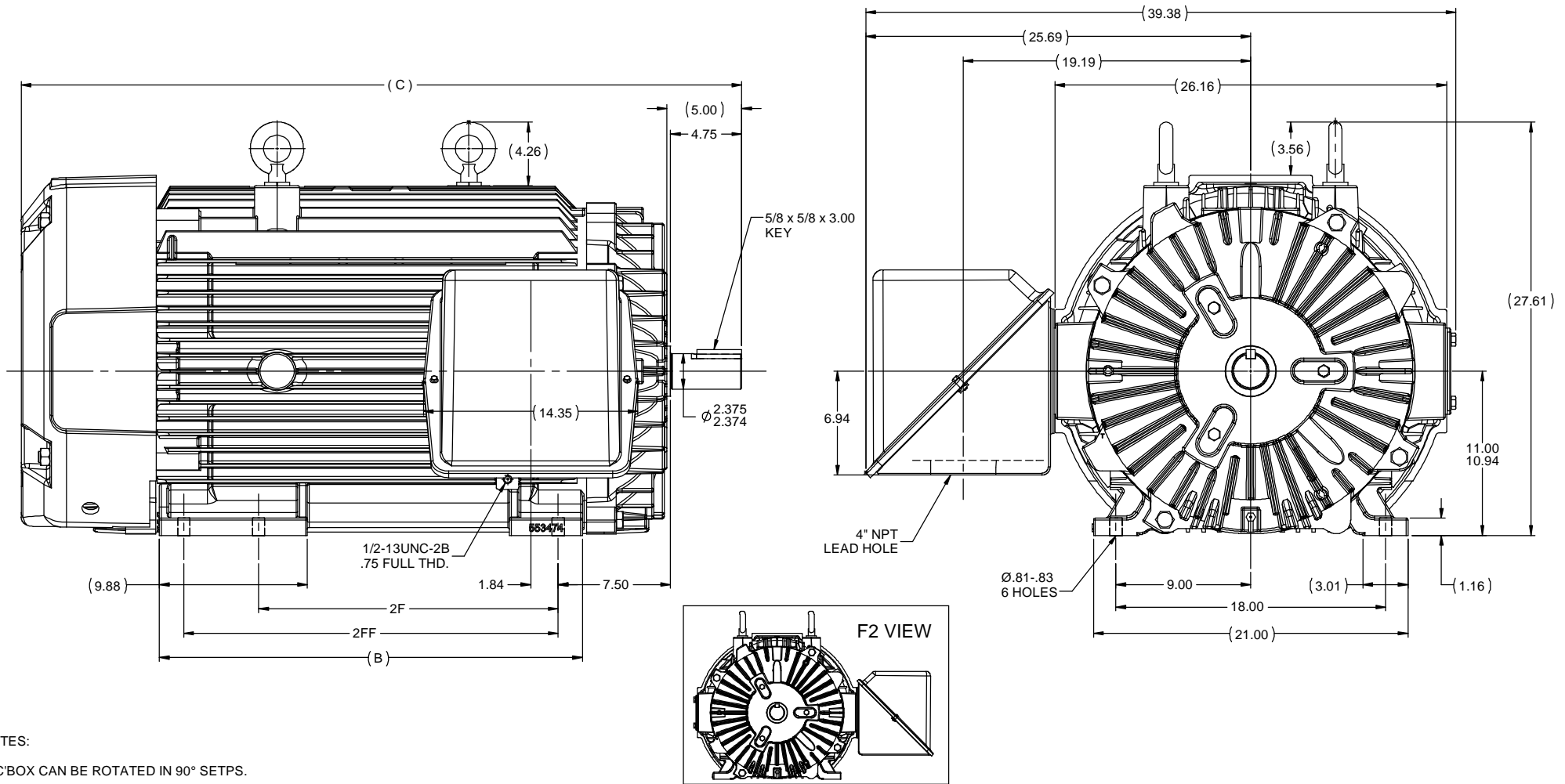
Nameplate Specifications

Output HP	300 Hp	Output KW	224.0 kW
Frequency	60 Hz	Voltage	460 V
Current	330.0 A	Speed	3575 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	89
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Frame	449TS	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	54
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.0088 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	48.09 in
Frame Length	28.75 in	Shaft Diameter	2.375 in
Shaft Extension	5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS515689-2875	Connection Drawing	A-EE7300U

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:10/11/2021



NOTES:

- C'BOX CAN BE ROTATED IN 90° SETPS.
- NAMEPLATES TO BE READ FROM C'BOX SIDE OF MOTOR.

NO	REVISION	BY & DATE	CHK	LANG	TOLERANCES UNLESS SPECIFIED	FINISH	PREV	SIZE	DRAWING NO	PAGE	OF	REV
6	UPDATED FRAME TO CURRENT STD'S. MU108818	JJB 7/16/2012	MH		INCHES							
5	UPDATED TO SOLIDWORKS, AND UPDATED FRAME	CJR 2/15/2012	SSW	DEC								
4	REVISED FAN GAURD MU76102	RJW 11-6-6	ML	X	±.1							
3	UPDATED C'BOX GEMETRY CN28404	DRS 11-4-02	XX		±.03							
2	ADD GRD PADS&HOLES TO FRAME PER CN21725-983	KL 4-6-97	XXX		±.005							
1	NEW DRAWING CN22247	BLR 6-19-96	XXXX		±.0005							
					±7'30"							

DASH	FRAME	C	B	2F	2XF
2875	447TS	48.09	28.25	20.00	- - -
2875	449TS	48.09	28.25	- - -	25.00

THIRD ANGLE PROJECTION			
NETWORK FILE NAME	SS515689	SIZE	B
DRAWING NO		SS515689	
PAGE		6	



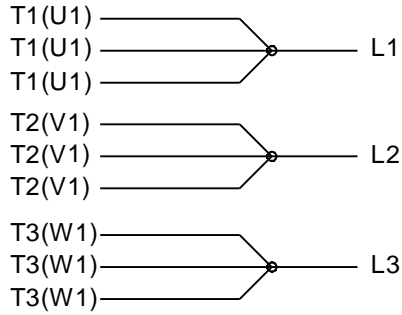
TITLE OUTLINE- TEFC
447/9TS FR.- STD.- TAPPED LEAD HOLE

DRAWN BLR 06-14-1996
CHK MRB 06-16-1996
APPR JL 06-16-1996

SCALE 1:6.5
REF
FMF

PAGE OF

IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN BY DRS	Regal Beloit America, Inc.																					
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015	<table style="font-size: small; border-collapse: collapse;"> <tr> <td><u>DEC.</u></td> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±7' 30"</td> </tr> <tr> <td>.XX</td> <td>±0.02</td> <td>[±0.51]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </table>	<u>DEC.</u>			<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>	.X	±0.1	[±2.5]	±7' 30"	.XX	±0.02	[±0.51]		.XXX	±0.005	[±0.127]		.XXXX	±0.0005	[±0.0127]		DATE 09-27-1996
<u>DEC.</u>	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>																							
.X	±0.1	[±2.5]	±7' 30"																							
.XX	±0.02	[±0.51]																								
.XXX	±0.005	[±0.127]																								
.XXXX	±0.0005	[±0.0127]																								
ECO DESCRIPTION UPDATED TO SOLIDWORKS			APPROVED BY GK	DATE 09-30-1996	MATERIAL	PROCESS/FINISH																				
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$ mm SHOWN IN [BRACKETS]	REFERENCE	SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1																			
				THIRD ANGLE PROJECTION																						

CERTIFICATION DATA SHEET

Model#: 449TSTFS6502 DX **WINDING#:** T449270 NONE 1
CONN. DIAGRAM: A-EE7300U **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS515689-2875

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN		
300	224	3600	3575	447/449TS	TEFC	G	B		
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	330	LINE OR INVERTER	CONTINUOUS	H1	1.15	40	3300
FULL LOAD EFF: 95.8	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS				
FULL LOAD PF: 89	3/4 LOAD PF: 87.5	1/2 LOAD PF: 82	95	SQ CAGE INV RATED	90				
F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C					
441 LB-FT	2200	775 LB-FT 176	1190 LB-FT 270	75					
SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT			
82 dBA	92 dBA	46.5 LB-FT^2	195 LB-FT^2	15 SEC.	1	2650 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	BLUE (EPOXY)

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

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

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE - FT-LB NONE V NONE Hz

*
N
O
T
E
S
*

DATE: 06/21/2017 06:55:24 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 1/28/2019
 Customer: _____
 Attention: _____
 Submitted by: DINESH SUDDULA



449TSTFS6502

Submittal

Data @ 460 V

Motor Load Data

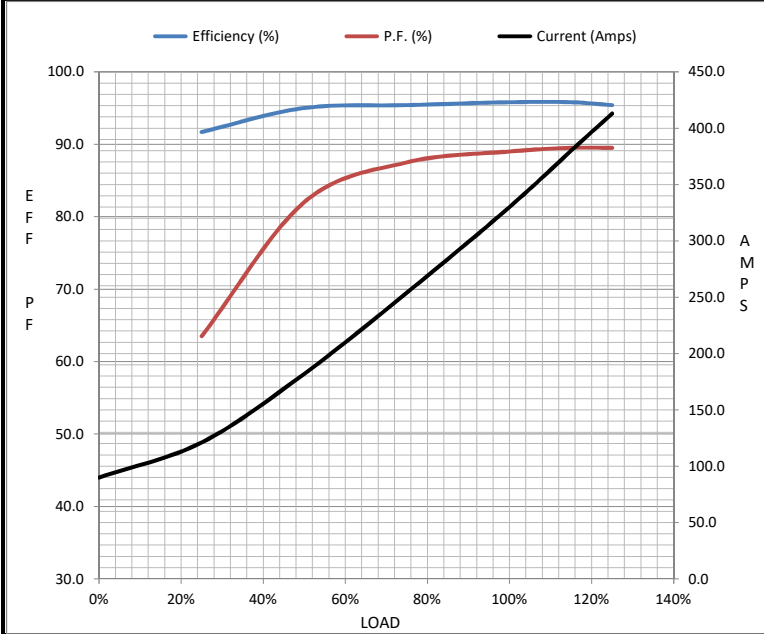
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	90.0	121	182	254	330	380	413	2,200
Torque (ft-lb)	0.00	110	220	330	441	508	553	775
RPM	3600	3592	3585	3580	3575	3,570	3565	0
Efficiency (%)		91.7	95.0	95.4	95.8	95.8	95.4	
P.F. (%)	7.0	63.5	82.0	87.5	89.0	89.5	89.5	27.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3430	3575	3600
Current (Amps)	2,200	1,980	1,265	330	90.0
Torque (ft-lb)	775	645	1,190	441	0.00

Information Block

HP	300.0			
Sync. RPM	3600			
Frame	449			
Enclosure	TEFC			
Construction	TFS			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	45.0 Lb-Ft ²			
Ref Wdg	T449270 NONE			
Sound Pressure @ 1M	82 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS515689-2875			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0080	0.0060	0.0830	0.0720	3.0400



Speed - Torque Curve

