

PRODUCT INFORMATION PACKET

Model No: 449TTFS6538
Catalog No: E690
250,1800,TEFC,447/9T,3/60/460
Severe Duty



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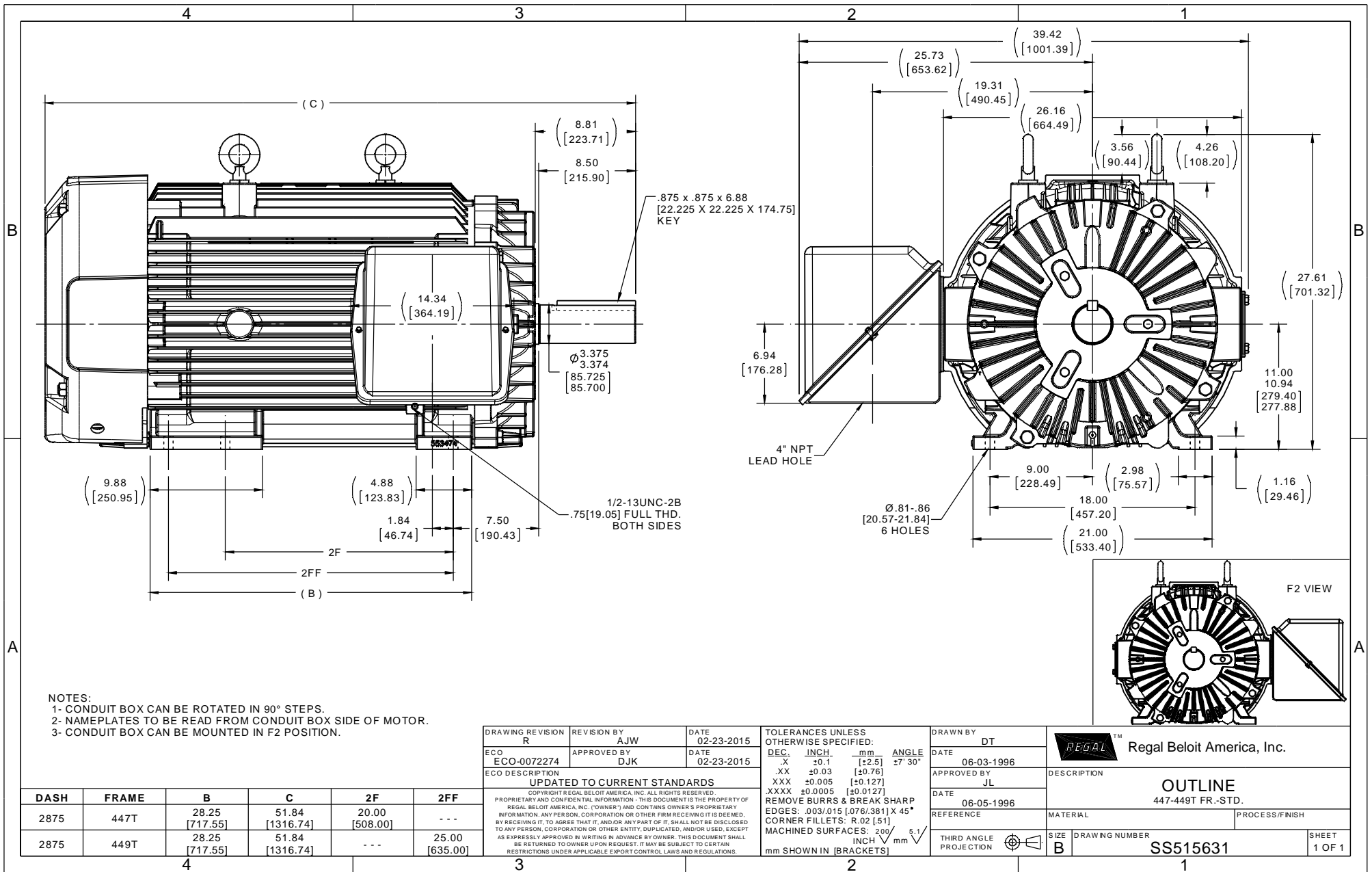
Nameplate Specifications

Output HP	250 Hp	Output KW	187.0 kW
Frequency	60 Hz	Voltage	460 V
Current	285.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	96.5 %	Duty	Continuous
Insulation Class	H	Design Code	B
KVA Code	G	Frame	447/449T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	NU319
Opp Drive End Bearing Size	6318	UL	Recognized
CSA	Y	CE	Y
IP Code	54		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Roller	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	51.84 in	Frame Length	28.75 in
Shaft Diameter	3.375 in	Shaft Extension	8.81 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	B-SS515631-2875	Connection Diagram	A-EE7300U

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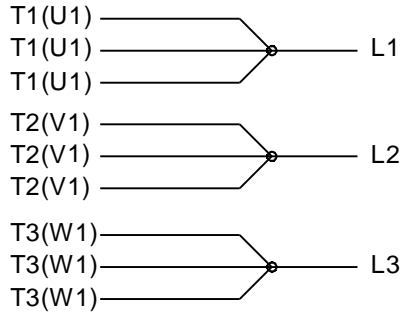
NOTES:
 1- CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2- NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 3- CONDUIT BOX CAN BE MOUNTED IN F2 POSITION.

DASH	FRAME	B	C	2F	2FF
2875	447T	28.25 [717.55]	51.84 [1316.74]	20.00 [508.00]	---
2875	449T	28.25 [717.55]	51.84 [1316.74]	---	25.00 [635.00]

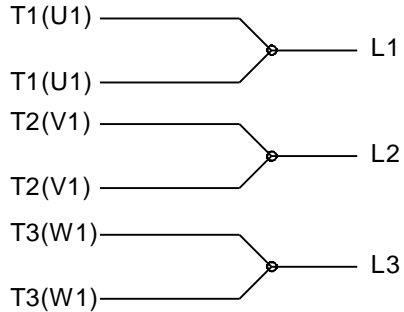
DRAWING REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED:
R	AJW	02-23-2015	DEC. INCH. mm ANGLE
ECO-0072274	DJK	02-23-2015	.X ±0.1 [±2.5] 27° 30'
ECO DESCRIPTION			.XX ±0.03 [±0.76]
UPDATED TO CURRENT STANDARDS			.XXX ±0.005 [±0.127]
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.			.XXXX ±0.0005 [±0.0127]
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			CORNER FILLETS: R.02 [.51]
			MACHINED SURFACES: 200 / INCH 5.1 / mm
			mm SHOWN IN [BRACKETS]

DRAWN BY	DT	REGAL™	Regal Beloit America, Inc.
DATE	06-03-1996	DESCRIPTION	
APPROVED BY	JL		
DATE	06-05-1996	OUTLINE 447-449T FR.-STD.	
REFERENCE			
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER	SS515631
		PROCESS/FINISH	SHEET 1 OF 1

IF MOTOR HAS 9 LEADS

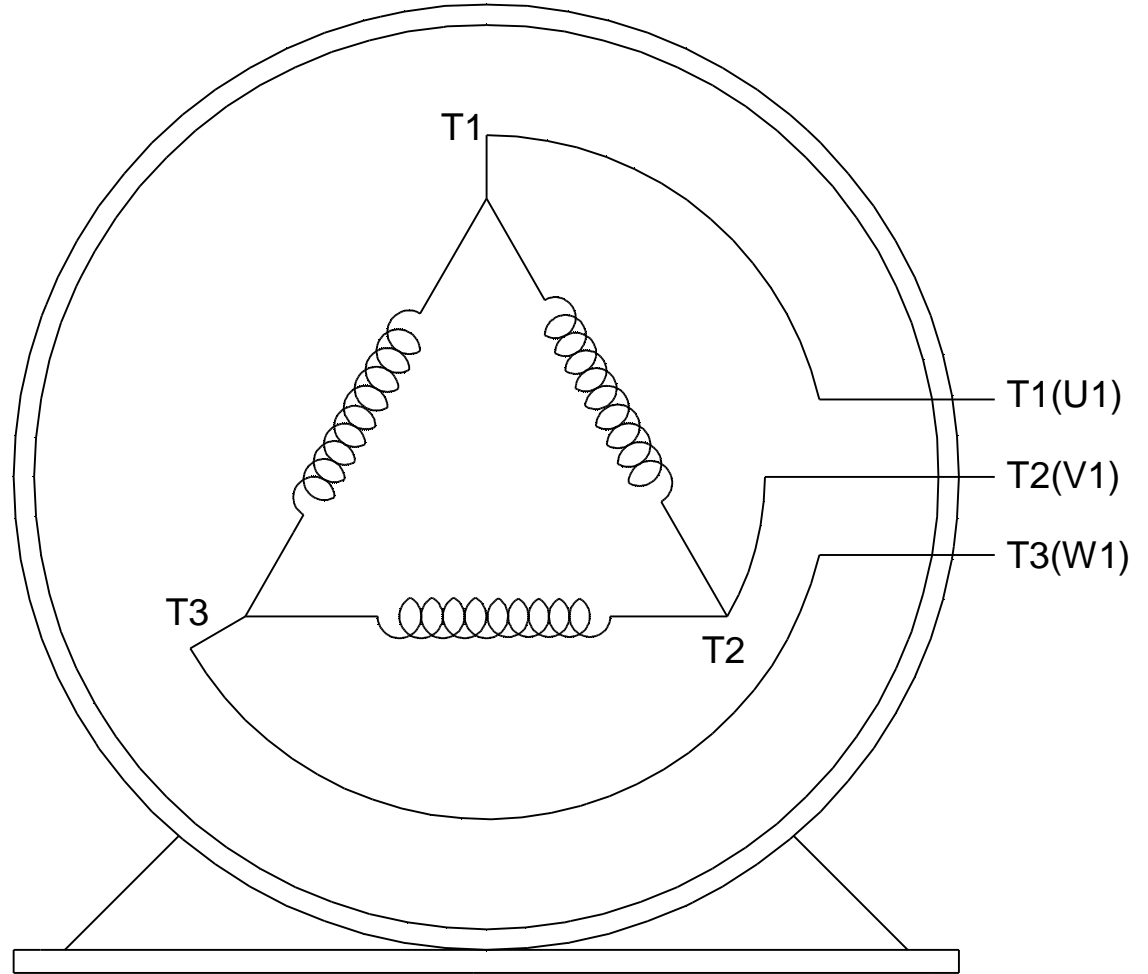


IF MOTOR HAS 6 LEADS



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>																							
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.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 $\sqrt{\text{mm}}$	REFERENCE	SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1																			
			mm SHOWN IN [BRACKETS]	THIRD ANGLE PROJECTION																						

Data Sheet

Date: 20-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



449TFS6538

Submittal

Data @ 460 V

Motor Load Data

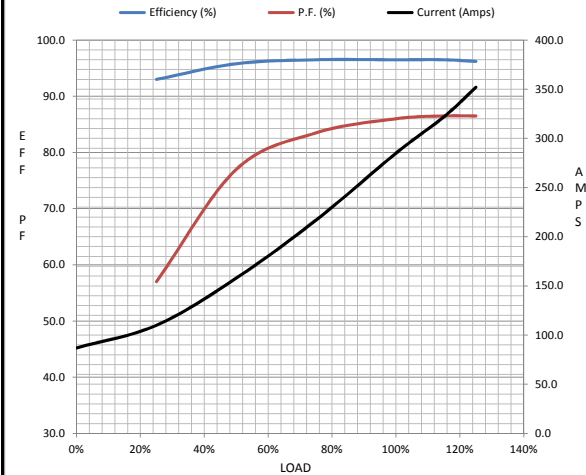
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	87.0	110	158	217	285	322	352	1,825
Torque (ft-lb)	0.00	183	366	550	736	846	920	1,450
RPM	1800	1796	1794	1790	1785	1,782	1780	0
Efficiency (%)		93.0	95.8	96.5	96.5	96.5	96.2	
P.F. (%)	4.5	57.0	77.0	83.5	86.0	86.5	86.5	31.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,825	1,725	1,100	285	87.0
Torque (ft-lb)	1,450	1,250	1,825	736	0.00

Information Block

HP	250.0			
Sync. RPM	1800			
Frame	449			
Enclosure	TEFC			
Construction	TFN			
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 wk ²	81.0 Lb-Ft ²			
Ref Wdg	T449446 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS515631-2875			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0070	0.0920	0.1300	2.9720



Speed -Torque Curve

