

# PRODUCT INFORMATION PACKET

Model No: 449THFS8036  
Catalog No: Y579  
250,1800,TEFC,449T,3/60/460  
2000:1 With Encoder Provision



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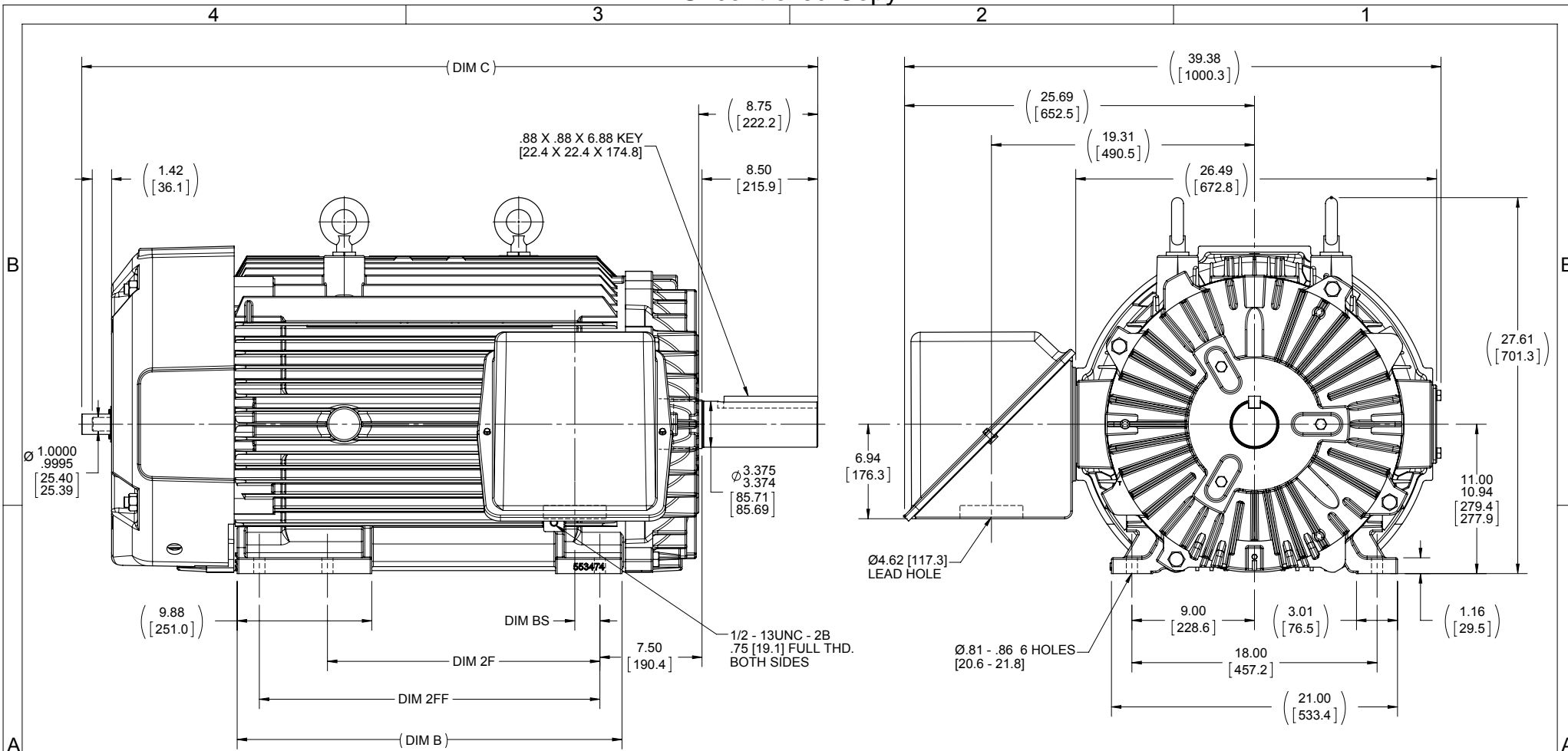
### Nameplate Specifications

Output HP	<b>250 Hp</b>	Output KW	<b>187 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>460 V</b>
Current	<b>280 A</b>	Speed	<b>1788 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>95 %</b>	Duty	<b>CONTINUOUS</b>
Insulation Class	<b>H</b>	Design Code	<b>INV</b>
KVA Code	<b>J</b>	Frame	<b>447/449T</b>
Enclosure	<b>TEFC</b>	Overload Protector	<b>NOT</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6319</b>
Opp Drive End Bearing Size	<b>6318</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>43</b>		

### Technical Specifications

Electrical Type	<b>SQ CAGE INV DUTY</b>	Starting Method	<b>INVERTER ONLY</b>
Poles	<b>4</b>	Rotation	<b>REV</b>
Mounting	<b>RIGID</b>	Motor Orientation	<b>HORIZONTAL</b>
Drive End Bearing	<b>BALL</b>	Opp Drive End Bearing	<b>BALL</b>
Frame Material	<b>CAST IRON</b>	Shaft Type	<b>T</b>
Overall Length	<b>54.03 in</b>	Frame Length	<b>28.75 in</b>
Shaft Diameter	<b>3.38 in</b>	Shaft Extension	<b>8.75 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>		
Outline Drawing	<b>B-SS555991-2875</b>	Connection Diagram	<b>A-EE7300S</b>

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**NOTE:**  
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.  
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF THE MOTOR.

NOTE: THIS MOTOR HAS PROVISION FOR HS35 ENCODER

DASH	FRAME	DIM B	DIM C	DIM 2F	DIM 2FF	DIM BS
2875	447T	28.25 [717.6]	54.03 [1372.4]	20.00 [508.0]	NA	1.84 [46.7]
2875	449T	28.25 [717.6]	54.03 [1372.4]	NA	25.00 [635.0]	1.84 [46.7]

DRAWING REVISION A	REVISION BY W. JOERGER	DATE 12-19-2013
ECO ECO-0043627	APPROVED BY E. HEIL	DATE 12-19-2013
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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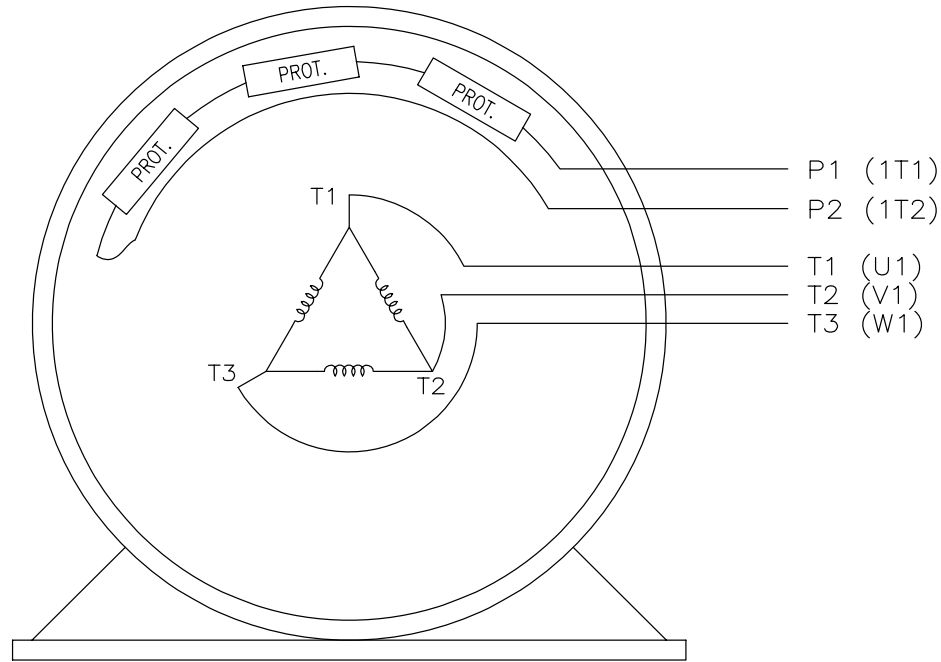
TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30'
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP			
EDGES: .003/.015 [0.076/381]			
CORNER FILLETS: .02 [51]			
MACHINED SURFACES: 200 INCH 5.1 mm			
mm SHOWN IN [BRACKETS]			

DRAWN BY W. JOERGER	Regal Beloit America, Inc.
DATE 12-19-2013	
APPROVED BY E. HEIL	DESCRIPTION <b>OUTLINE TEFC - 447/449T FR.</b>
DATE 12-19-2013	MATERIAL
PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B
	DRAWING NUMBER <b>SS555991</b>
	SHEET 1 OF 1

EE7300S

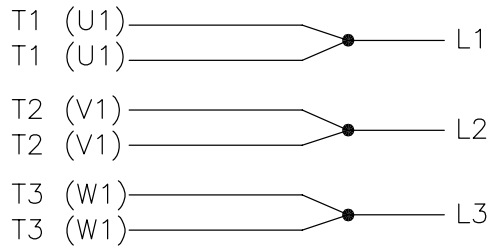
THREE PHASE – SINGLE VOLTAGE MOTOR

TO REVERSE ROTATION:  
INTERCHANGE ANY TWO LINE  
LEAD CONNECTIONS



VIEW OF TERMINAL END

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



A-9806 DECAL

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	PAGE	OF	REV.
				DEC.	INCHES					
F	UPDATED TITLE BLOCK	HV 02-27-2014	EWB	.X	± -		KL	12-15-1999		
3	REMOVED "N.C." FROM PROT.'S MU61770	JJB 08-02-2010		.XX	± -		DJK	12-15-1999		
2	ADDED IEC MARKINGS MU61770	KL 09-16-2004	EAB	.XXX	± -	TITLE CONNECTION DIAGRAM – EXTERNAL SINGLE VOLTAGE 3Ø MOTOR	APPD	DJK 12-15-1999	SCALE	1=1
1	NEW DRAWING	KL 12-16-1999		.XXXX	± -	MAT'L			REF	
				ANG	± -				FMF	
									PREV	
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 ee7300s		SIZE	DRAWING NO.
						DIST	WA-LB-SB	A	EE7300S	F





NONE	NONE		
NONE FT-LB	NONE V	NONE Hz	

DATE: 06/21/2017 06:37:56 AM  
FORM 3531 REV.3 02/07/99  
\*\* Subject to change without notice.

Data Sheet

Date: 19-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



449THFS8036

Submittal

Data @ 460 V

Motor Load Data

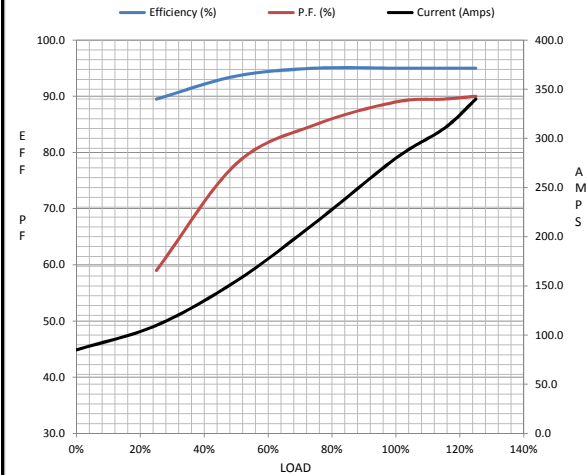
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	85.0	110	155	215	280	310	340	2,450
Torque (ft-lb)	0.00	183	366	550	734	827	920	1,250
RPM	1800	1796	1794	1790	1788	1,786	1784	0
Efficiency (%)		89.5	93.6	95.0	95.0	95.0	95.0	
P.F. (%)	7.0	59.0	78.0	85.0	89.0	89.5	90.0	22.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1788	1800
Current (Amps)	2,450	2,200	1,400	280	85.0
Torque (ft-lb)	1,250	1,000	2,500	734	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	J			
Service Factor	1.0			
Temp Rise @ FL	60 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	81.0 Lb-Ft <sup>2</sup>			
Ref Wdg	T449465 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS55991-2875			
Conn. Diag	A-EE7300S			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0100	0.0070	0.0930	0.0770	2.9980



Speed -Torque Curve

