

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 449TTFS36649
Catalog No: U884A
250,1800,TEFC,449T,3/60/460
Cooling Tower



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REGAL

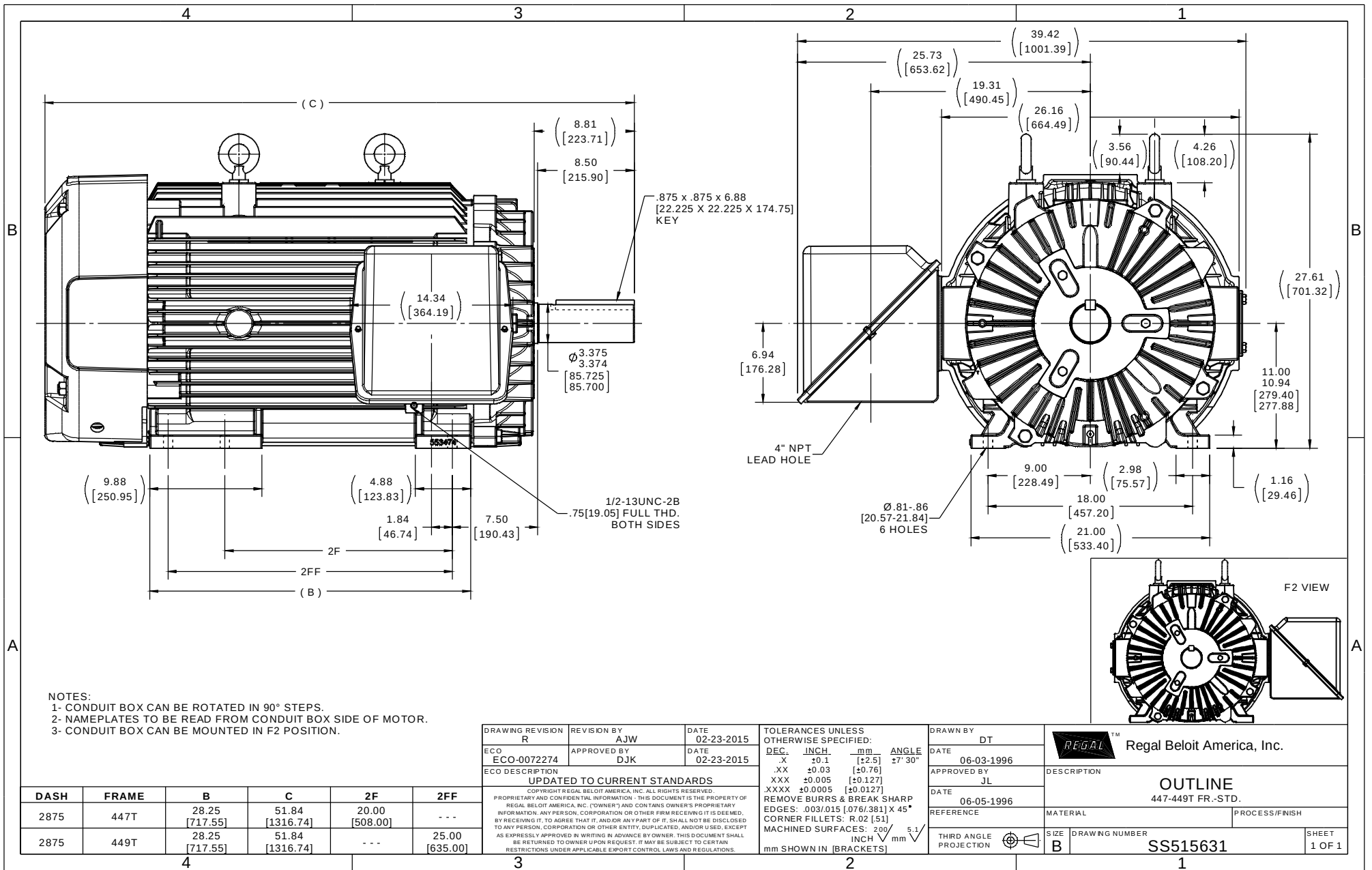


Nameplate Specifications

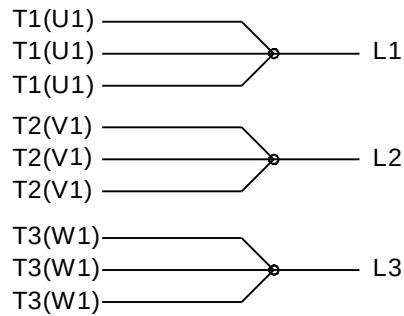
Output HP	250 Hp	Output KW	187.0 kW
Frequency	60 Hz	Voltage	460 V
Current	285.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	96.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	447/449T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6319
Opp Drive End Bearing Size	6318	UL	Recognized
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

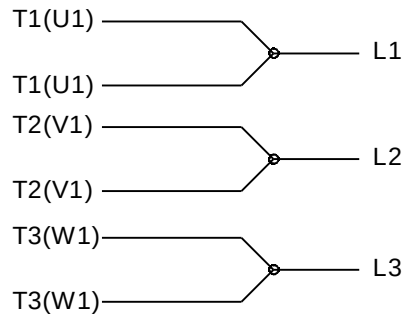
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	T
Overall Length	51.84 in	Frame Length	28.77 in
Shaft Diameter	3.375 in	Shaft Extension	8.81 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS515631-2875	Connection Diagram	A-EE7300U



IF MOTOR HAS 9 LEADS

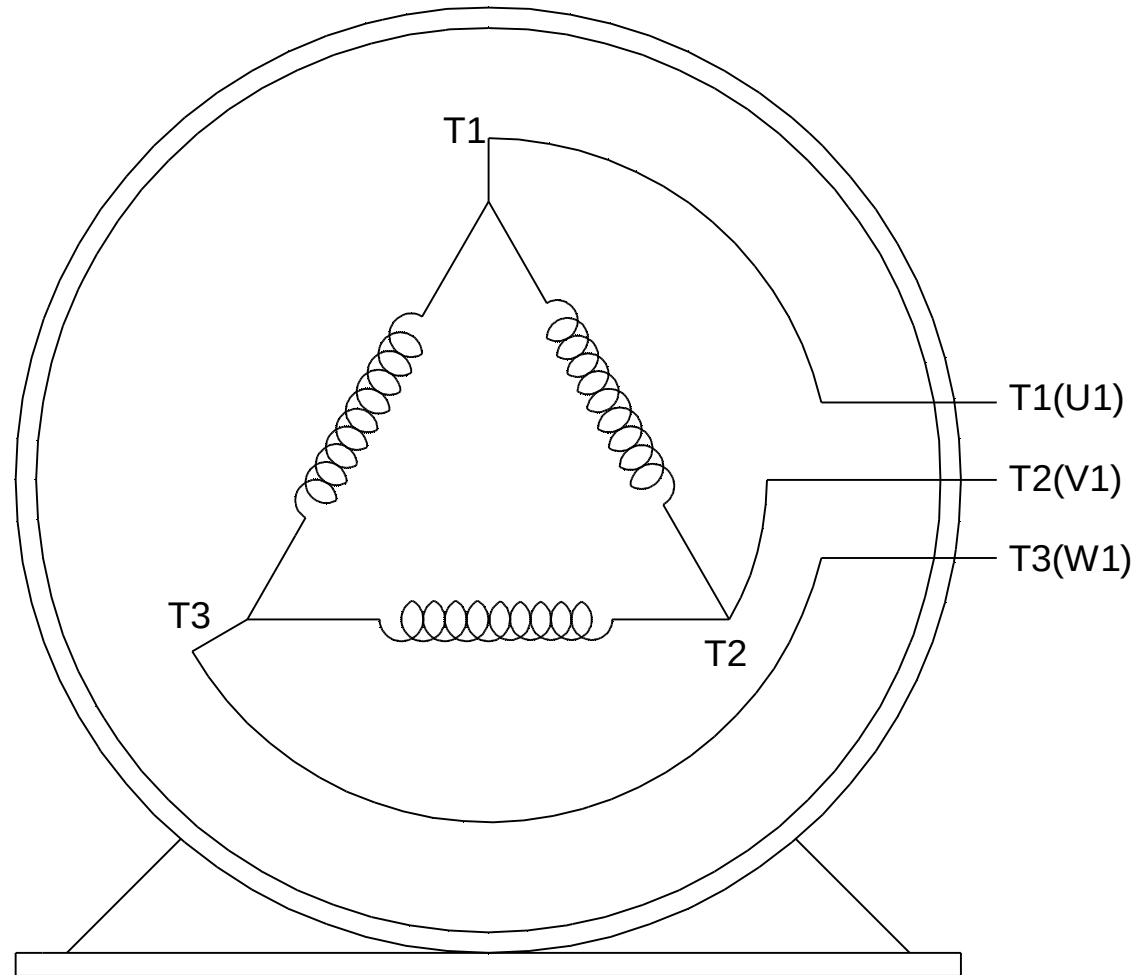
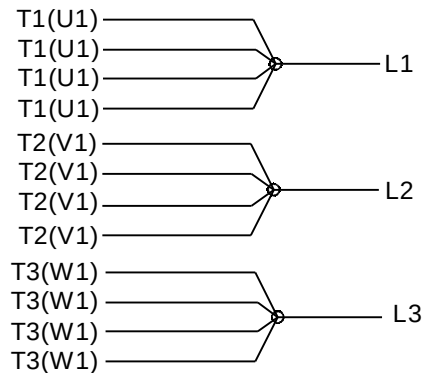


IF MOTOR HAS 6 LEADS



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: DEC. INCH. mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.02 [±0.51] XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200/INCH 5.1/mm SHOWN IN [BRACKETS]		DRAWN BY DRS	REGAL™ Regal Beloit America, Inc.	
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015			DATE 09-27-1996	DESCRIPTION	
ECO DESCRIPTION UPDATED TO SOLIDWORKS			APPROVED BY GK		CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE		
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			REFERENCE	MATERIAL	PROCESS/FINISH		
			THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1	



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:		CUSTOMER P.O. #:	
ORDER #:	A-EE7300U	REFERENCE MODEL #:	449TTS36649
CONN. DIAGRAM:	B-SS515631-2875	CAT #:	U884A
OUTLINE:		CUSTOMER PART #:	
WINDING:	T449446	MOUNTING:	F1/F2 CAPABLE
SPEED:			

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
250	187	1800	1785	44T/449T	TEFC	TFN	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	285&275	ACROSS THE LINE	CONT	F	1.15	40	3300
F.L. EFF		96.5	3/4 LD EFF	96.5	1/2 LD EFF	95.8	GTD EFF	ELECT. TYPE	
F.L. PF		86.0	3/4 LD PF	83.5	1/2 LD PF	77.0	96.2	SQ CAGE IND RUN	
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)	
736 LB-FT		1.825	1.450 LB-FT	197%	1.825 LB-FT	248%	65		
@ 3 FT.		POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT		
80 dBA		89 dBA	81.0 LB-FT²	2000 LB-FT²	25 SEC.	1	2700 LB.		

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT		
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	NONE	NO	NONE	BLUE (EPOXY)		
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL		
DE	ODE									
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON		
6319	6318									
THERMOSTATS		PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS			
NONE		NOT	NONE	NONE	NONE	FALSE	NA			
R1 (ohms/ph)		R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)		FLOAT		
0.007		0.007	0.092	0.13	2.972	0.080		ODE		
* N O T E S *										
INVERTER TORQUE: NONE										
INV. HP SPEED RANGE: NONE										
ENCODER: NONE										
NONE										
NONE										
BRAKE: NONE										
NONE										
FT-LB: NA										
VOLTAGE: NONE										
HZ:										
PREPARED BY: FAREEDA DUDEKULA										
DATE: 9/10/2018										
FORM: 3531 REV 4 2/27/06										
UL: V-INS, CONST UL REC										

Data Sheet

Date: 9/10/2018

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA

4491TFS36649



Submittal

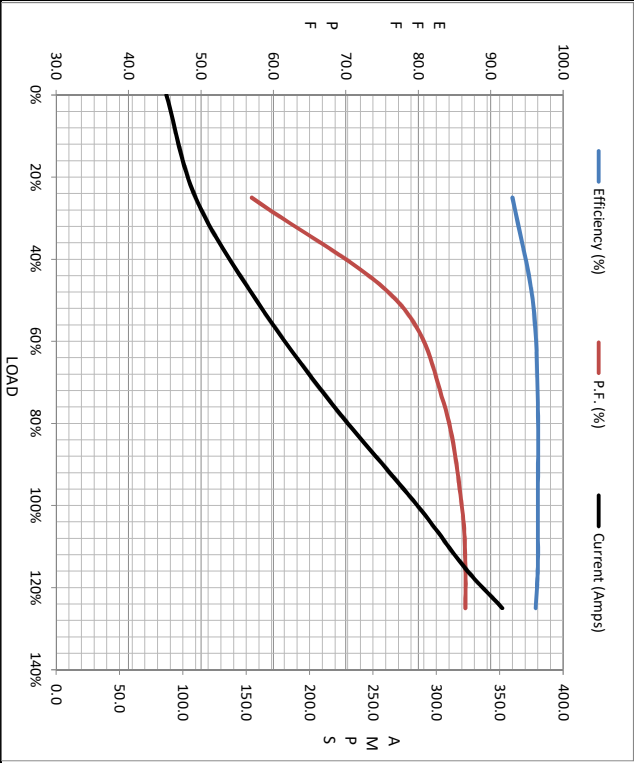
Data @ 460 V

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	Information Block	
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		
						HP	250.0
						Sync. RPM	1800



Frame	449182TFC6080			
Enclosure	TEFC			
Construction	TFN			
Voltage	460/380		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	81.0 Lb-Ft²			
Ref Wdg	T449446 NONE			
Sound Pressure @ 1M	80		dBA	
VFD Rating	NONE			
Outline Dwg	B-SS51631-2875			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0070	0.0820	0.1300	2.9720

Speed - Torque Curve

