

# PRODUCT INFORMATION PACKET

Model No: 449TTFS16362

Catalog No: L455A

XRI® General Purpose General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V,  
1800 & 1500 RPM, 449T Frame, TEFC



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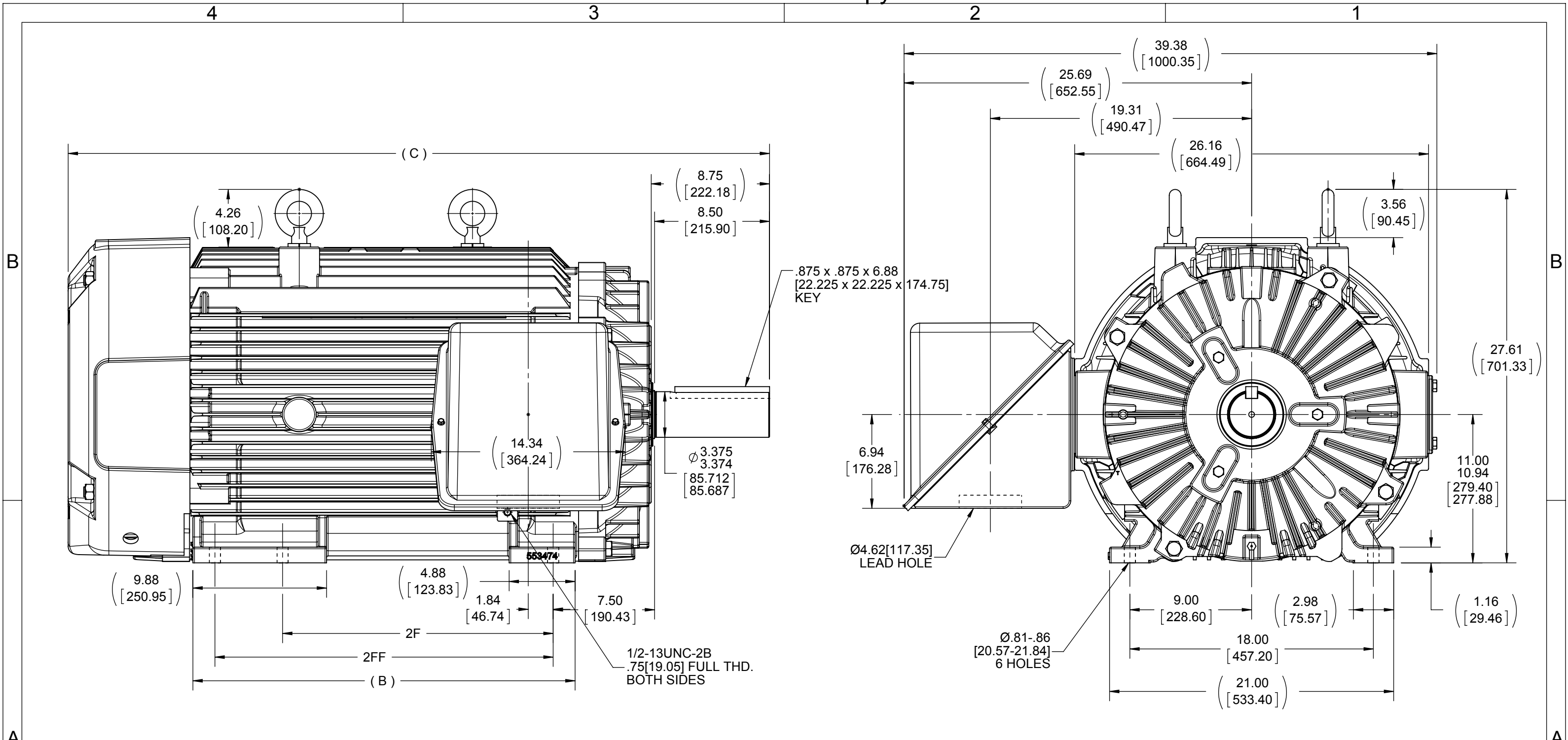
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### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>250 &amp; 200 Hp</b>
Output KW	<b>187.0 &amp; 149.0 kW</b>	Voltage	<b>460 &amp; 380 V</b>
Speed	<b>1785 &amp; 1485 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>449T</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>96.5 &amp; 95.8 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>285 &amp; 275 A</b>	Power Factor	<b>86</b>
Duty	<b>Continuous</b>	Insulation Class	<b>H</b>
Design Code	<b>B</b>	KVA Code	<b>G</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>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Part Wdg Start &amp; Wye Start Delta Run</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.0107 Ohms</b>	Mounting	<b>Rigid Base</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>28.25 in</b>
Frame Length	<b>28.77 in</b>	Shaft Diameter	<b>3.375 in</b>
Shaft Extension	<b>8.75 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Connection Drawing	<b>A-EE7300BH</b>	Outline Drawing	<b>B-SS515635-2875</b>



NOTES:

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

DASH	FRAME	B	C	2F	2FF
2875	447T	28.25 [717.55]	51.86 [1317.24]	20.00 [508.00]	---
2875	449T	28.25 [717.55]	51.86 [1317.24]	---	25.00 [635.00]

DRAWING REVISION D	REVISION BY CM	DATE 04-11-2014	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]	DRAWN BY DT	Regal Beloit America, Inc.		
ECO ECO-0049191	APPROVED BY DJK	DATE 04-11-2014	REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [0.51] MACHINED SURFACES: 200 INCH mm 5.1 mm SHOWN IN [BRACKETS]	DATE 06-04-1996			
ECO DESCRIPTION UPDATE TO CURRENT STANDARDS 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.				APPROVED BY JL		DESCRIPTION OUTLINE 447-449T FR. - STD.	
				DATE 06-05-1996		MATERIAL	
				PROCESS/FINISH	SIZE B	DRAWING NUMBER SS515635	SHEET 1 OF 1
				THIRD ANGLE PROJECTION			



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		REGAL REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005			
				DEC.	INCHES		CHK	ML	02-11-2005	
				.X	±.1		APPD	GK	02-11-2005	
				.XX	±.02	TITLE CONNECTION DIAGRAM	SCALE			
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX ±.005	12 LEAD- SINGLE VOLTAGE	REF			
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	ML	.XXXX ±.0005	MAT'L.	FMF			
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	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	02-11-2005	CAD FILE ee7300bh	SIZE	DRAWING NO.	PAGE OF	REV.
				DIST	LB		A	EE7300BH		C



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

DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CUSTOMER: \_\_\_\_\_ CUSTOMER P.O. #: \_\_\_\_\_  
 ORDER #: \_\_\_\_\_ REFERENCE MODEL #: 449TTFS16362  
 CONN. DIAGRAM: A-EE7300BH CAT #: L455A  
 OUTLINE: B-SS515635-2875 CUSTOMER PART #: \_\_\_\_\_  
 WINDING: T449446 NONE 5 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	447/449T	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	285&275	PWS & YDRUN	CONT	H	1.15	40	3300

F.L. EFF	96.5	3/4 LD EFF	96.5	1/2 LD EFF	95.8	GTD EFF	96.2	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	86.0	3/4 LD PF	83.5	1/2 LD PF	77.0				

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	NO	NONE	NO	NONE	BLUE (ENAMEL)

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	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE NONE PPR	

PREPARED BY: FAREEDA DUDEKULA	BRAKE: NONE
DATE: 9/10/2018	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC

Data Sheet

449TTFS16362

Date: 11/29/2018  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

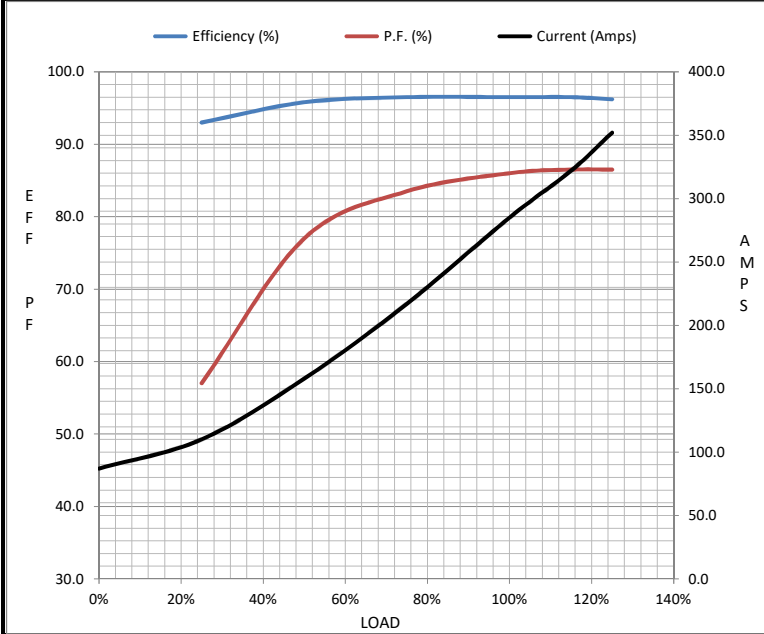
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	87.0	110	158	217	285	322	352	1,825
Torque (ft-lb)	0.00	183	366	550	736	846	920	1,450
RPM	1800	1796	1794	1790	1785	1,782	1780	0
Efficiency (%)		93.0	95.8	96.5	96.5	96.5	96.2	
P.F. (%)	4.5	57.0	77.0	83.5	86.0	86.5	86.5	31.0

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	TFS			
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 wk <sup>2</sup>	81.0 Lb-Ft <sup>2</sup>			
Ref Wdg	T449446 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS515635-2875			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0070	0.0920	0.1300	2.9720



Speed - Torque Curve

