

PRODUCT INFORMATION PACKET

Model No: 449TSTFS14010

Catalog No: Y1646

350 HP, Fire Pump Motors, 3 phase, 3600 RPM, 460 V, 449TS Frame, TEFC
Fire Pump Motors



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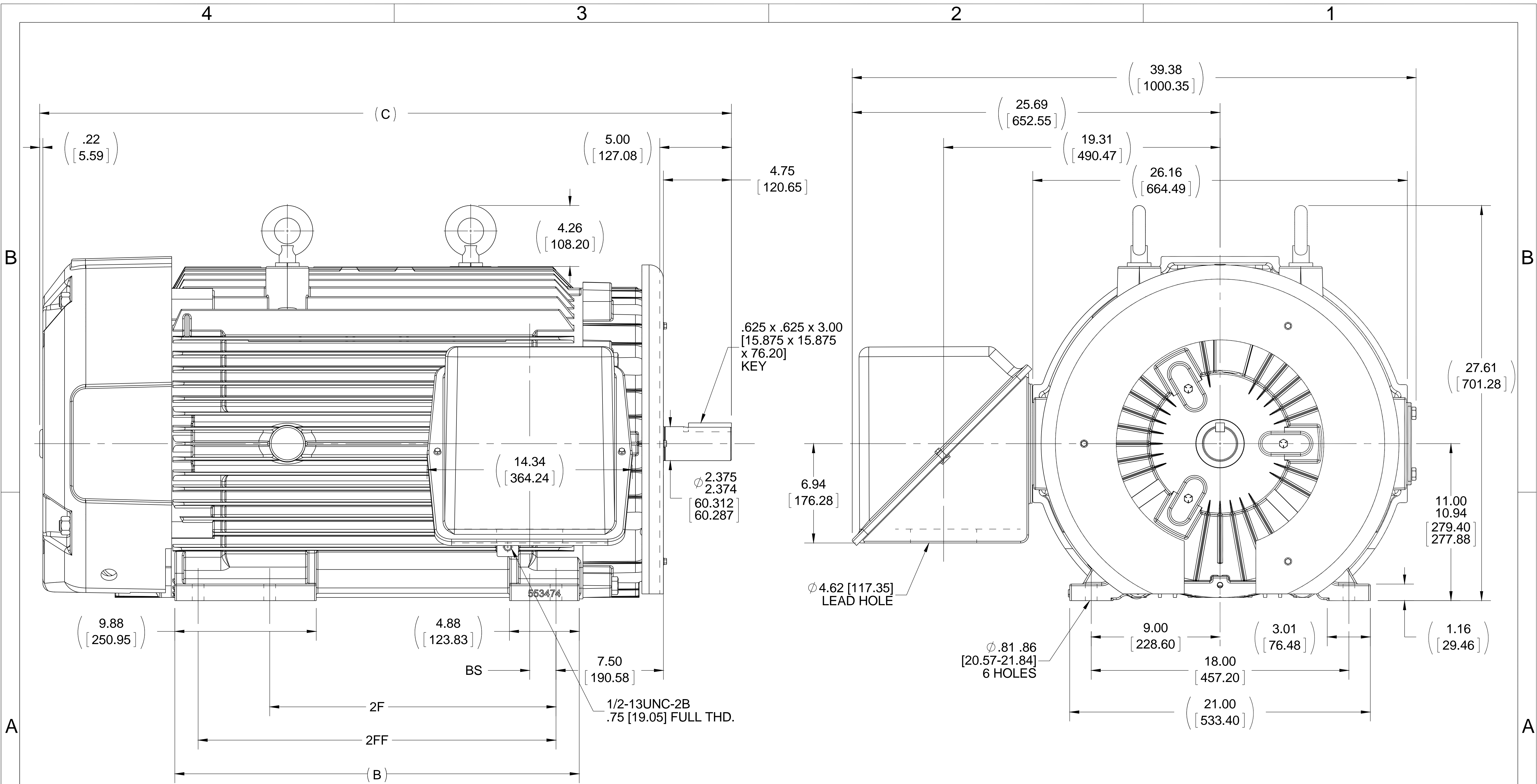
Nameplate Specifications

Output HP	350 Hp	Output KW	260.0 kW
Frequency	60 Hz	Voltage	460 V
Current	382.0 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	Listed	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.0054 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Shaft Diameter	2.375 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	A-EE7300BH	Outline Drawing	B-SS550023-2875

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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.
 3. DIMENSIONS IN [] DESIGNATE MILLIMETERS.

DASH	FRAME	B	C	2F	2FF	BS
2875	447TS	28.25 [717.55]	48.32 [1227.33]	20.00 [508.00]	---	1.84 [46.74]
2875	449TS	28.25 [717.55]	48.32 [1227.33]	---	25.00 [635.00]	1.84 [46.74]

DRAWING REVISION C	REVISION BY JJB	DATE 04-22-2016
ECO ECO-0100884	APPROVED BY JHA	DATE 04-22-2016
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] X 45°
 CORNER FILLETS: R.02 [0.51]
 MACHINED SURFACES: 200 INCH/mm
 mm SHOWN IN [BRACKETS]

DRAWN BY KL
DATE 09-25-2003
APPROVED BY JES
DATE 09-26-2003
REFERENCE
THIRD ANGLE PROJECTION

REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE	
447/449TS FR. - TEFC - EXTERNAL BAFFLE - FLAT BKTS.	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS550023
	SHEET 1 OF 1



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 A	DRAWING NO. EE7300BH	PAGE OF	REV. C
						DIST LB					



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7300BH

MODEL #: 449TSTFS14010 BA

OUTLINE: B-SS550023-2875

MOUNTING: F1/F2 CAPABLE

WINDING #: T4492118 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
350	260	3600	3575	447/449TS	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	382	PWS & YDRUN	CONTINUOUS	H1	1.15	40

FULL LOAD EFF:	95.8	3/4 LOAD EFF:	95.8	1/2 LOAD EFF:	95	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	89	3/4 LOAD PF:	87	1/2 LOAD PF:	82	95.4		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
514 LB-FT	2400	1150 LB-FT 224 %	1450 LB-FT 282 %	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	62 LB-FT^2	- LB-FT^2	10 SEC.	-	3300 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	RED (ENAMEL)

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

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

* 12 LEADS
FIRE PUMP MOTOR

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

Data Sheet

Date: 11/2/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



449TSTFS14010

Submittal

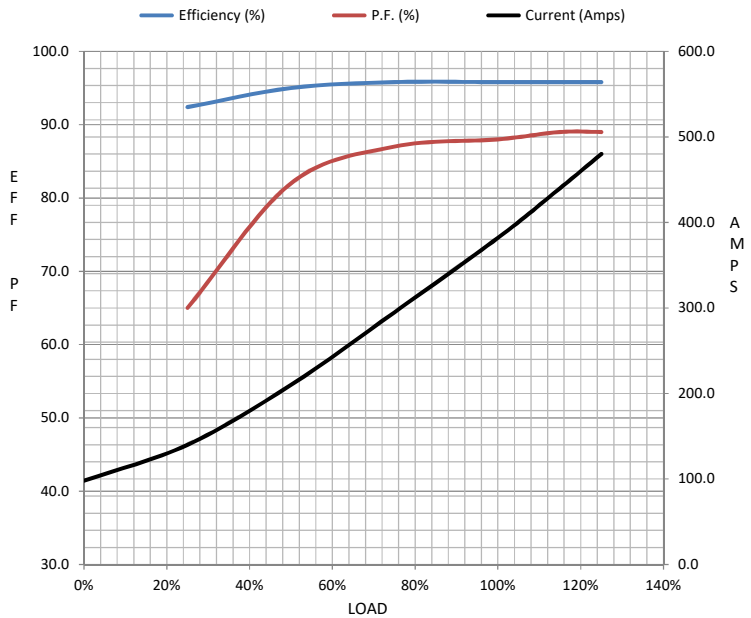
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	98.0	140	210	295	382	440	480	2,400
Torque (ft-lb)	0.00	128	256	385	514	592	644	1,150
RPM	3600	3595	3588	3582	3575	3,570	3568	0
Efficiency (%)		92.4	95.0	95.8	95.8	95.8	95.8	
P.F. (%)	6.5	65.0	82.0	87.0	88.0	89.0	89.0	38.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	1800	3420	3575	3600	HP	350.0
Current (Amps)	2,400	2,250	1,375	382	98.0	Sync. RPM	3600
Torque (ft-lb)	1,150	900	1,450	514	0.00	Frame	449182TTC6080



Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	80 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	62.0 Lb-Ft ²			
Ref Wdg	T4492118 NONE			
Sound Pressure @ 1M	82 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS550023-2875			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0050	0.0050	0.0540	0.0950	2.6730

Speed - Torque Curve

