

PRODUCT INFORMATION PACKET

Model No: 449TSTDN7001

Catalog No: H818

Fire Pump Motor, 450 & 400 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 449TS Frame, DP



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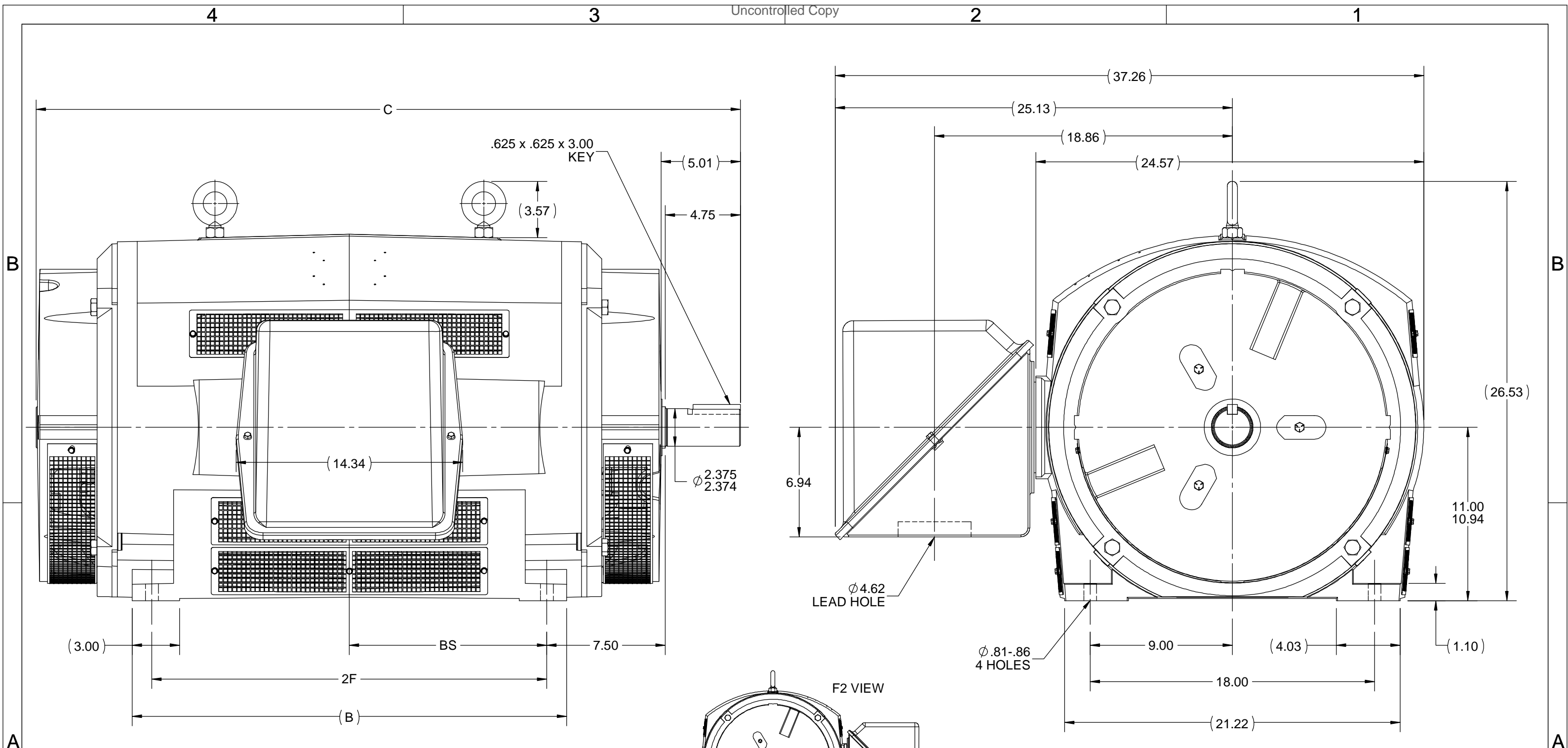
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Nameplate Specifications

Phase	3	Output HP	450 & 400 Hp
Output KW	340.0 & 300.0 kW	Voltage	460 & 380 V
Speed	3575 & 2970 rpm	Service Factor	1.15 & 1.15
Frame	449TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 95.4 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	502 & 535 A	Power Factor	88
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Listed	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

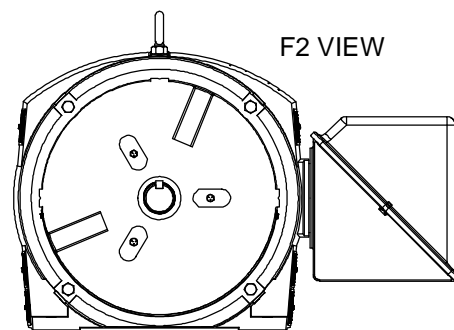
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.008 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	44.58 in
Frame Length	29.38 in	Shaft Diameter	2.375 in
Shaft Extension	5.01 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS516498-2938	Connection Drawing	A-EE7300BH



NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.



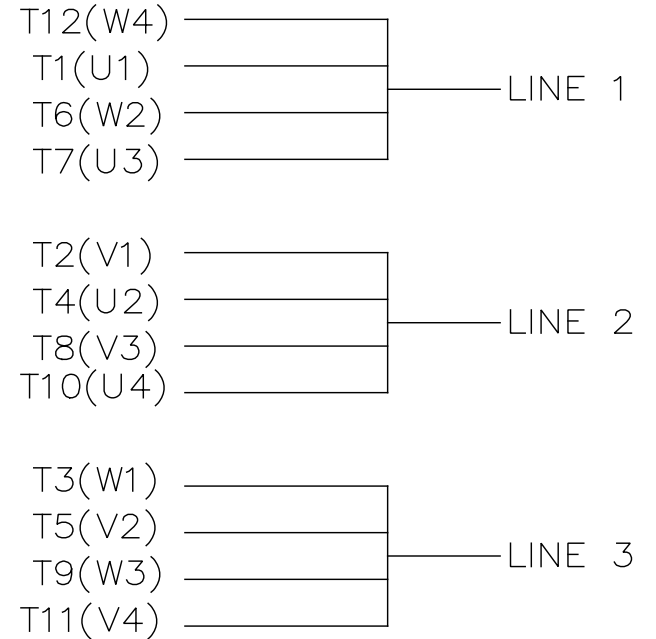
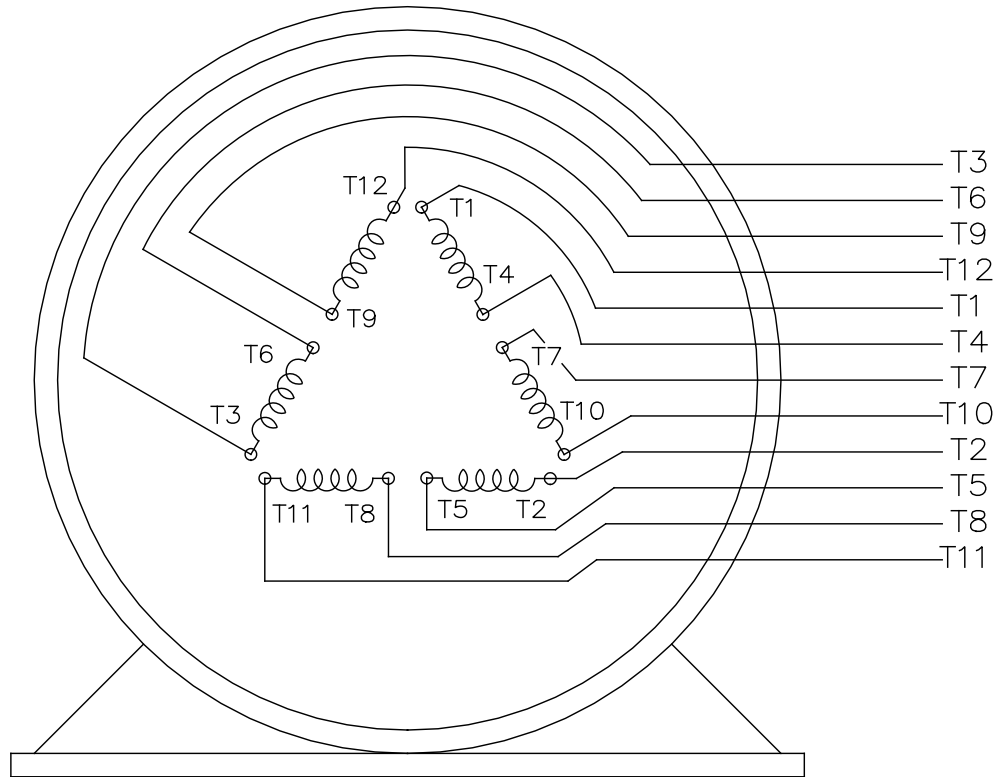
DASH	FRAME	B	C	2F	BS
2438	447TS	22.50	39.58	20.00	10.00
2938	449TS	27.50	44.58	25.00	12.50

DRAWING REVISION C	REVISION BY JP	DATE 07-17-2018
ECO ECO-0149010	APPROVED BY JHA	DATE 07-17-2018
ECO DESCRIPTION MADE CONDUIT BOX SQAURED TO FRAME		
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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 [.076/.381] X 45° CORNER FILLETS: R.02 [.51]			
MACHINED SURFACES: 200 INCH/mm 5.1			
mm SHOWN IN [BRACKETS]			

DRAWN BY KL	DATE 03-30-1998
APPROVED BY DJK	DATE 03-30-1998
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION 447/449TS FR - DR. PR. - SCREENED	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS516498
	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					

Data Sheet

Date: 12/13/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



449TSTDN7001

Submittal

Data @ 460 V

Motor Load Data

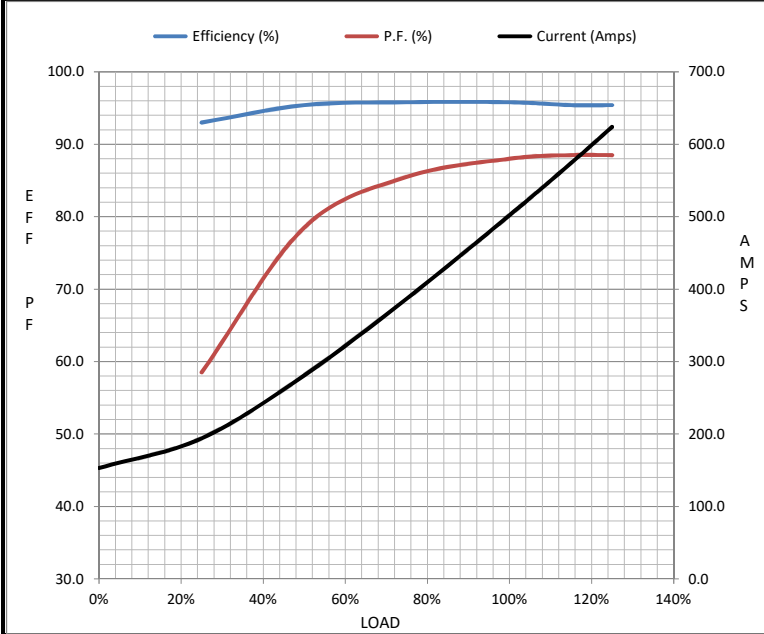
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	153	194	281	387	502	574	624	3,200
Torque (ft-lb)	0.00	165	330	495	662	762	829	1,040
RPM	3600	3595	3588	3580	3575	3570	3565	0
Efficiency (%)		93.0	95.4	95.8	95.8	95.4	95.4	
P.F. (%)	4.5	58.5	78.5	85.5	88.0	88.5	88.5	27.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3435	3575	3600
Current (Amps)	3,200	2,835	1,880	502	153
Torque (ft-lb)	1,040	860	1,755	662	0.00

Information Block

HP	450.0			
Sync. RPM	3600			
Frame	449			
Enclosure	DP			
Construction	TDS			
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 ²	44.5 Lb-Ft ²			
Ref Wdg	T449279 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS516498-2938			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0040	0.0560	0.0480	1.8020



Speed - Torque Curve

