

# PRODUCT INFORMATION PACKET

Model No: 447TSTDN7005

Catalog No: H817

Fire Pump Motor, 400 & 350 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 447TS Frame, DP



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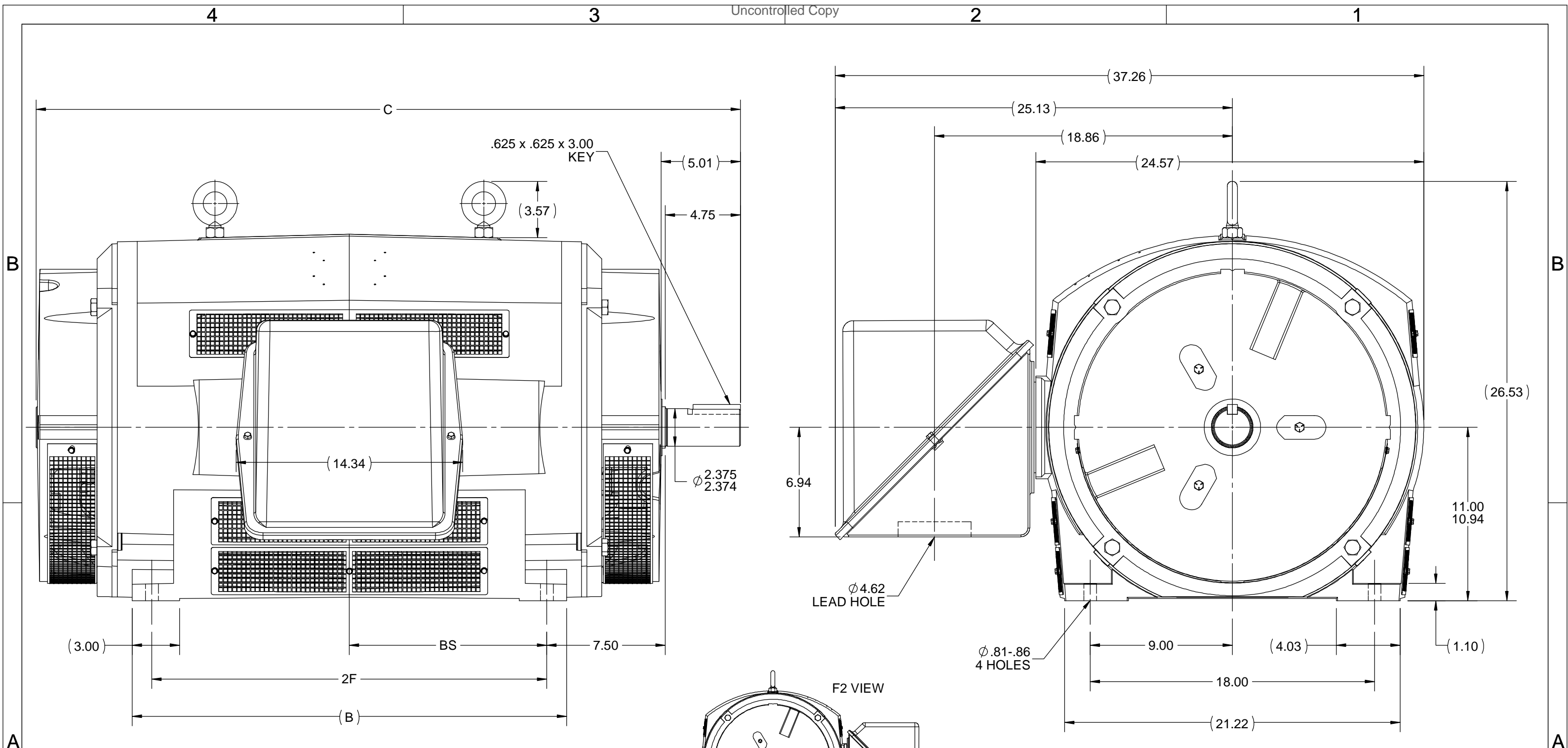
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### Nameplate Specifications

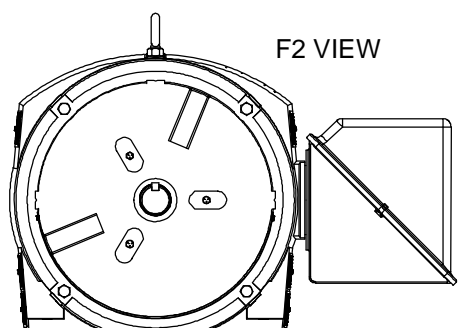
Phase	<b>3</b>	Output HP	<b>400 &amp; 350 Hp</b>
Output KW	<b>300.0 &amp; 260.0 kW</b>	Voltage	<b>460 &amp; 380 V</b>
Speed	<b>3568 &amp; 2965 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>447TS</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>95.4 &amp; 94.5 %</b>
Ambient Temperature	<b>50 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>435 &amp; 465 A</b>	Power Factor	<b>88.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>F</b>
Drive End Bearing Size	<b>6314</b>	Opp Drive End Bearing Size	<b>6314</b>
UL	<b>Listed</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>12</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>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.0105 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>TS</b>	Overall Length	<b>39.58 in</b>
Frame Length	<b>24.38 in</b>	Shaft Diameter	<b>2.375 in</b>
Shaft Extension	<b>5.01 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Outline Drawing	<b>B-SS516498-2438</b>	Connection Drawing	<b>A-EE7300BH</b>



- 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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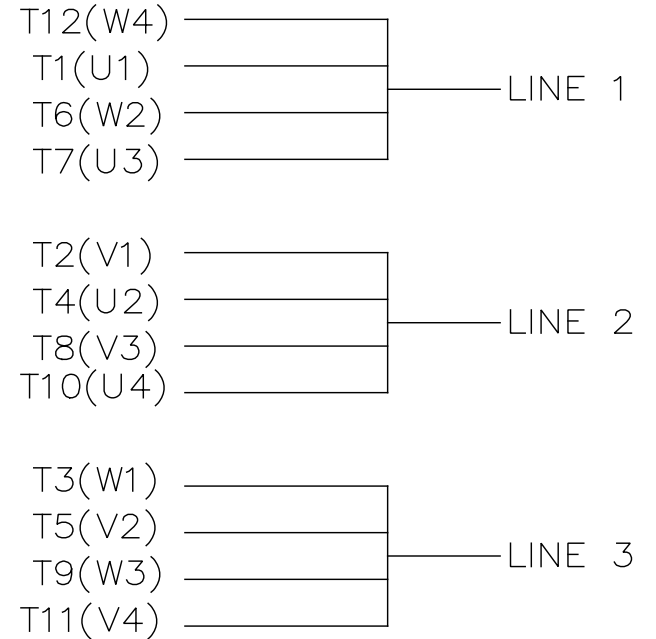
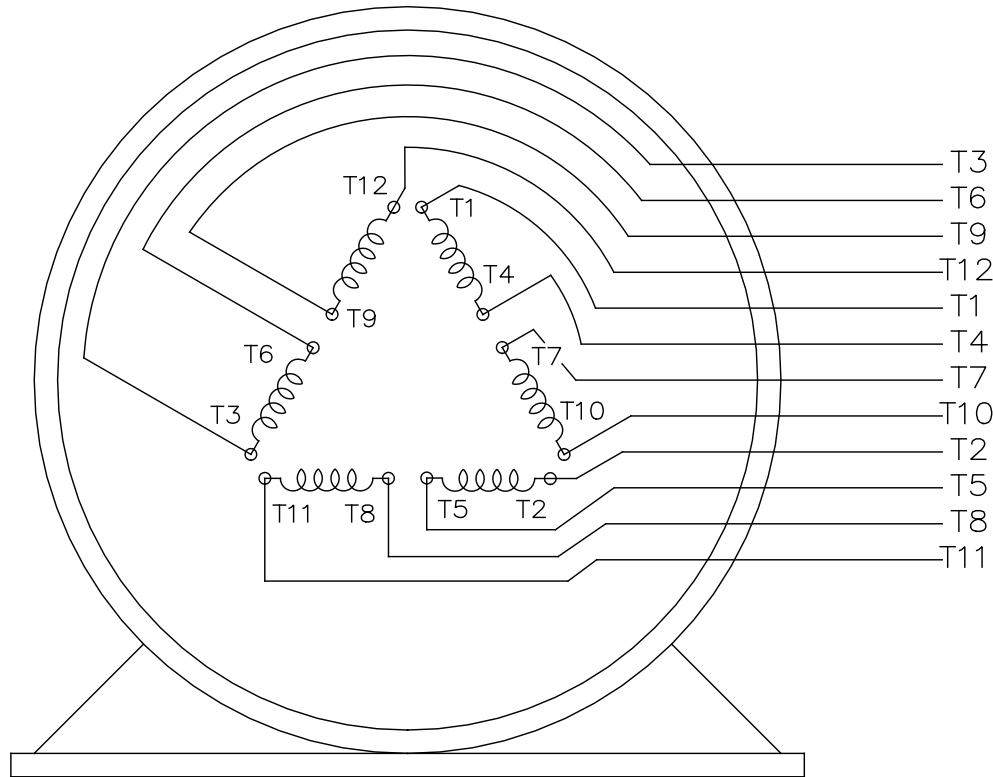
TOLERANCES UNLESS OTHERWISE SPECIFIED:

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	

<b>REGAL</b> ™ Regal Beloit America, Inc.	
DESCRIPTION <b>OUTLINE</b> 447/449TS FR - DR. PR. - SCREENED	
MATERIAL	PROCESS/FINISH
SIZE <b>B</b>	DRAWING NUMBER <b>SS516498</b>
	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**

**Model#:** 447TSTDN7005 ED      **WINDING#:** T447224 NONE 1  
**CONN. DIAGRAM:** A-EE7300BH      **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** B-SS516498-2438

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
400&350	300&260	3600	3568&2965	447TS	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	435&465	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	50	3300

FULL LOAD EFF: 95.4&94.5	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.5&89	3/4 LOAD PF: 88	1/2 LOAD PF: 84	94.5	SQ CAGE IND RUN	105

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
589 LB-FT	2450	575 LB-FT 97	1350 LB-FT 228	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	40 LB-FT^2	160 LB-FT^2	10 SEC.	1	2150 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	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6314						

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

If Inverter equals NONE, contact factory for further information

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

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DATE: 06/21/2017 06:22:44 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 12/14/2018  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



447TSTDN7005

Submittal

Data @ 460 V

Motor Load Data

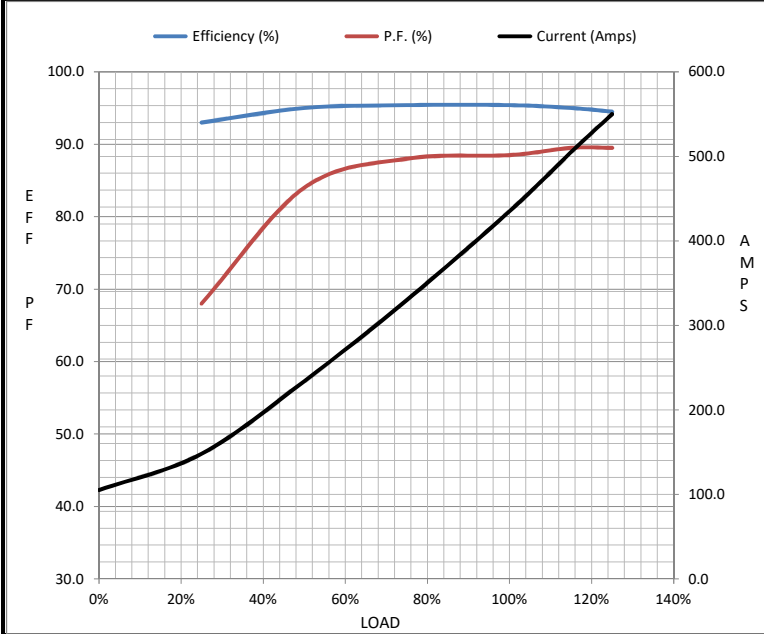
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	105	148	234	330	435	505	550	2,450
Torque (ft-lb)	0.00	146	293	441	589	678	738	575
RPM	3600	3592	3585	3575	3568	3,560	3555	0
Efficiency (%)		93.0	95.0	95.4	95.4	95.0	94.5	
P.F. (%)	5.5	68.0	84.0	88.0	88.5	89.5	89.5	26.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3425	3568	3600
Current (Amps)	2,450	2,200	1,600	435	105
Torque (ft-lb)	575	515	1,350	589	0.00

Information Block

HP	400.0			
Sync. RPM	3600			
Frame	447			
Enclosure	DP			
Construction	TDS			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	40.0 Lb-Ft <sup>2</sup>			
Ref Wdg	T447224 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS516498-2438			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0090	0.0060	0.0750	0.0600	2.5810



Speed -Torque Curve

