

PRODUCT INFORMATION PACKET

Model No: 445TSTDCD4033

Catalog No: U1040

Fire Pump 250 HP, 3 Phase DP Motors, 1800 RPM, 60HZ 400 V, 445TS Frame, Rigid Base,
For use on pumps designed for fire pump duty and installed per NFPA-20
Fire Pump Motors



Nameplate Specifications

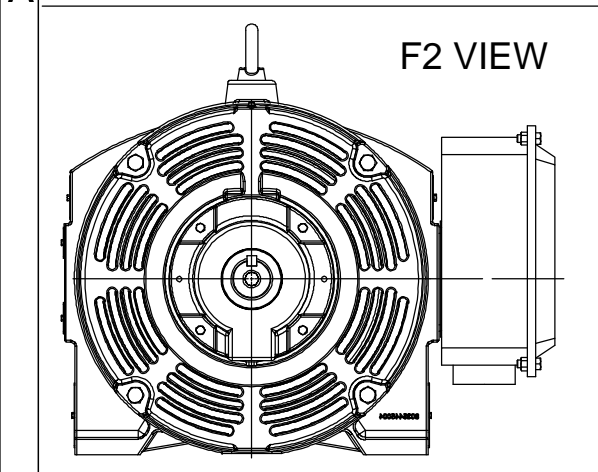
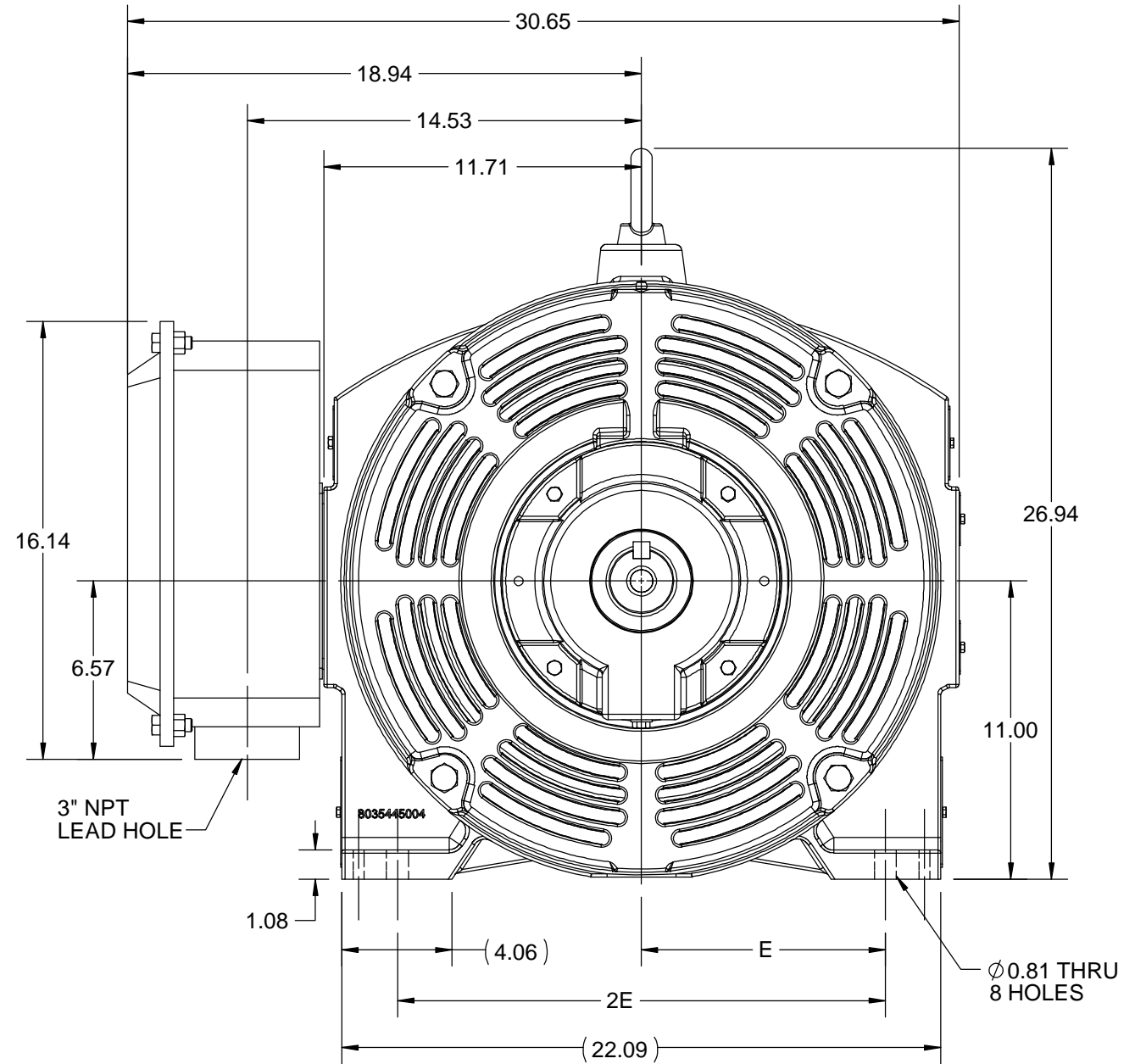
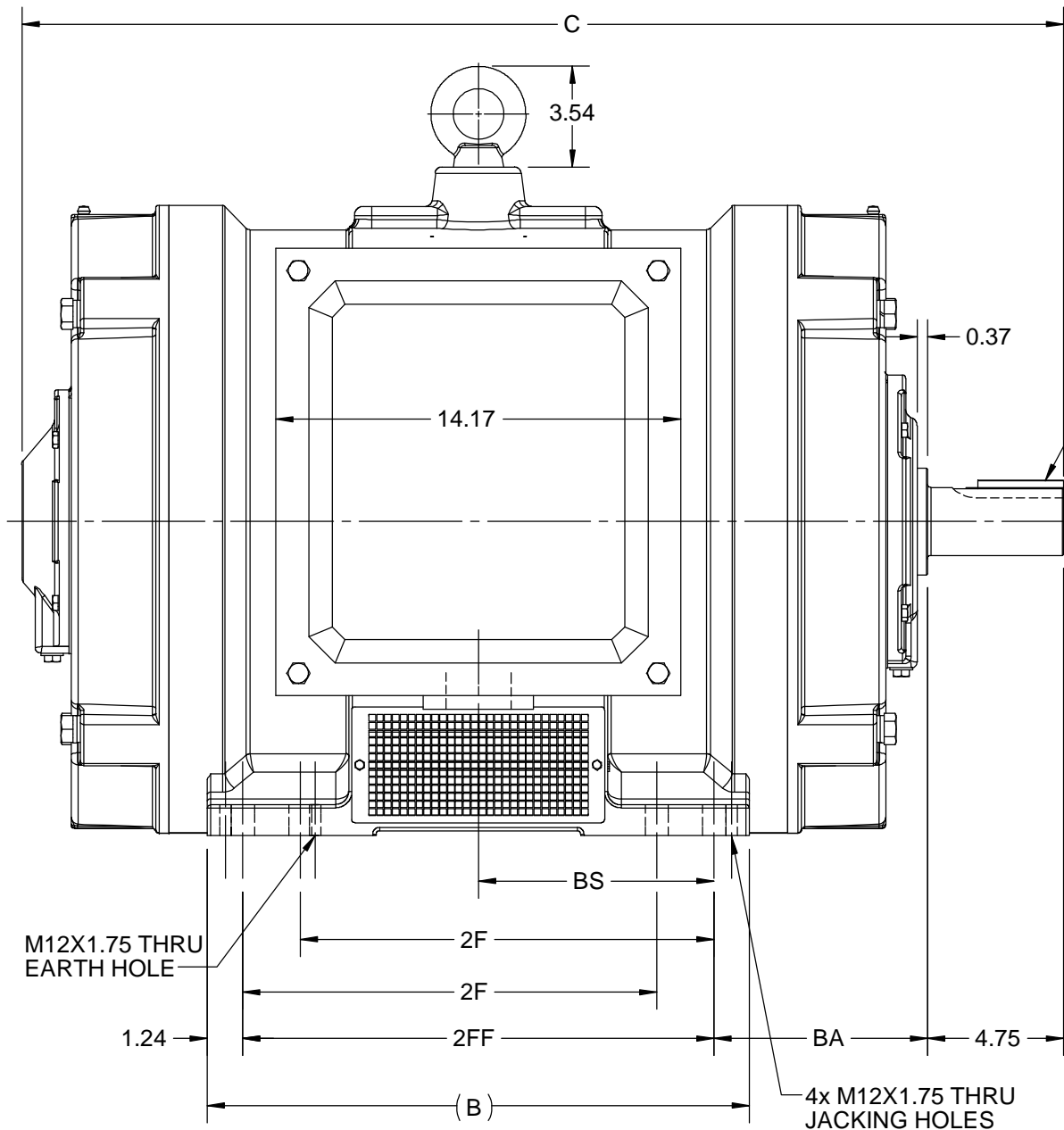
Output HP	250 Hp	Output KW	187.0 kW
Frequency	60 Hz	Voltage	400 V
Current	321.0 A	Speed	1789 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	87.7
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445TS	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	50 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
UL	Listed	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.0223 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	EE7300BH	Outline Drawing	SS620991

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	4				3				2	1
B	C	E	2E	2F	2FF	BA	BS	MOUNTING		
18.98	36.47	9.00	18.00	14.50	16.50	7.50	8.25	F1 OR F2		



DRAWING REVISION B	REVISION BY BISWA	DATE 30/11/2020
ECO ECO-0195277	APPROVED BY SBD	DATE 30/11/2020
ECO DESCRIPTION		
DRAWING UPDATED		
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DRAWN BY VS	REGAL ™ Regal Beloit America, Inc.
DATE 11/01/2019	
APPROVED BY SBD	DESCRIPTION OUTLINE 444/445 FR TS-NEMA-ODP
DATE 11/01/2019	MATERIAL
REFERENCE	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B
	DRAWING NUMBER SS620991
	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					



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

DATA VOLTS: 400

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #: _____
CONN. DIAGRAM: EE7300BH
OUTLINE: SS620991
WINDING: HA22804105 NONE 4
SPEED: _____

CUSTOMER P.O. #: _____
REFERENCE MODEL #: 445TSTDCC4033
CAT #: U1040
CUSTOMER PART #: _____
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	1800	1789	445TS	DP	TDC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	400	321	PWS & YDRUN	CONT	F	1.15	50	3300

F.L. EFF	95.4	3/4 LD EFF	95.7	1/2 LD EFF	95.4	GTD EFF	ELECT. TYPE
F.L. PF	87.7	3/4 LD PF	85.8	1/2 LD PF	79.9	95.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
734 LB-FT	2,099	1,915 LB-FT	261%	75

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
84 dBA	93 dBA		75.01 LB-FT ²	375 LB-FT ²	18 SEC.	2	1430	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	YES	RODENT	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
6319	6317						

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
0.007561437	0.003780718	0.039319471	0.091493384	1.938752363	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE					
	ENCODER: NONE NONE NONE					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE					

PREPARED BY: _____ DATE: 11/17/2021	HZ: _____ UL: NO LETTER - ALL BRANDS-UL LISTED FIRE PUMP MOTORS
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FORM: 3531 REV. 4 2/27/06

Data Sheet

Date: 11/17/2021
 Customer: _____
 Attention: _____
 Submitted by: _____



445TSTD4033

Submittal

Data @ 400 V

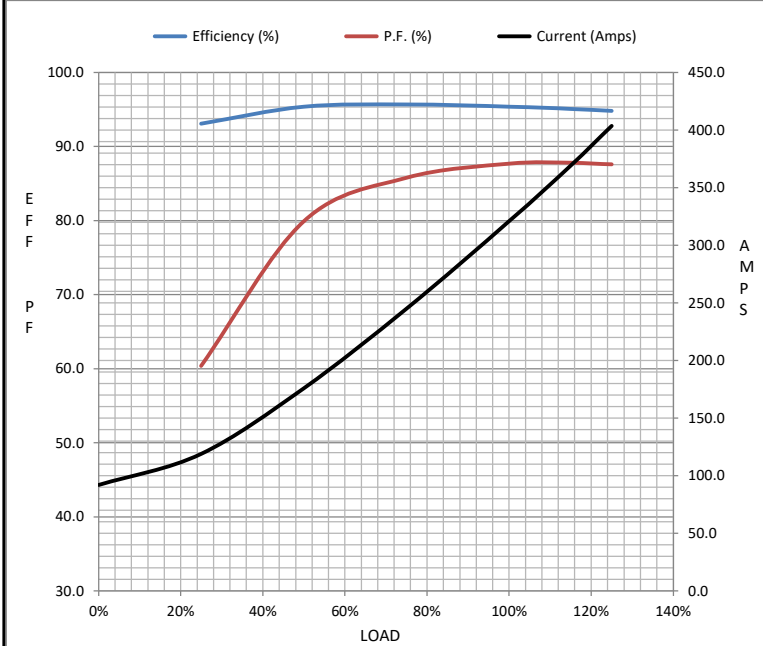
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	92.0	119	176	245	321	369	404	2,099
Torque (ft-lb)	0.00	183	366	550	734	845	920	1,915
RPM	1800	1797	1795	1792	1789	1,786	1785	0
Efficiency (%)		93.1	95.4	95.7	95.4	95.1	94.8	
P.F. (%)	4.9	60.4	79.9	85.8	87.7	87.8	87.6	43.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1745	1789	1800
Current (Amps)	2,099	1,668	1,056	321	92.0
Torque (ft-lb)	1,915	1,580	1,650	734	0.00

Information Block				
HP	250.0			
Sync. RPM	1800			
Frame	445			
Enclosure	DP			
Construction	TDC			
Voltage	400 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	75.01 Lb-F ²			
Ref Wdg	HA22804105 NONE			
Sound Pressure @ 1M	84 dBA			
VFD Rating	NONE			
Outline Dwg	SS620991			
Conn. Diag	EE7300BH			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0100	0.0050	0.0520	0.1210	2.5640



Speed - Torque Curve

