

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 445TSTFN14067

Catalog No: Y1635

Fire Pump Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445TS Frame, TEFC



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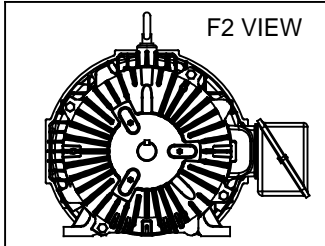
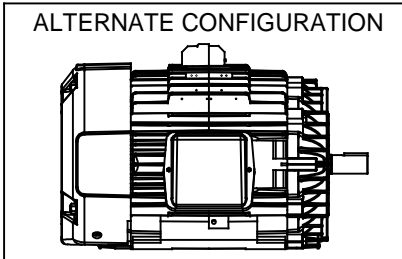
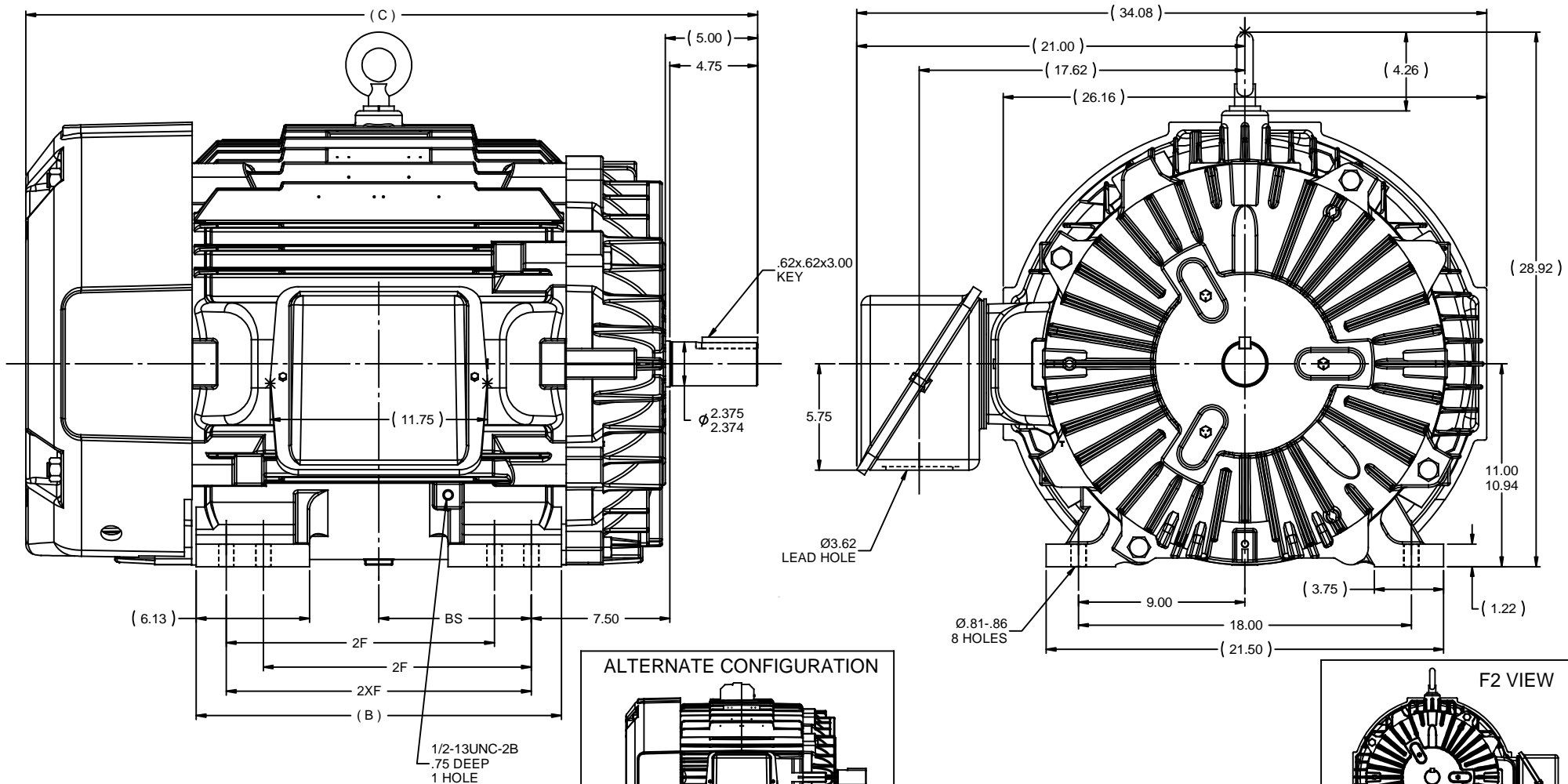
RegalRexnord

### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>150 &amp; 125 Hp</b>
Output KW	<b>112.0 &amp; 93.0 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>445TS</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>95 &amp; 94.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>170 &amp; 172 A</b>	Power Factor	<b>86.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Drive End Bearing Size	<b>6313</b>	Opp Drive End Bearing Size	<b>6313</b>
UL	<b>No</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>.027 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>39.60 in</b>
Frame Length	<b>20.25 in</b>	Shaft Diameter	<b>2.375 in</b>
Shaft Extension	<b>5 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Connection Drawing	<b>A-EE7300BH</b>	Outline Drawing	<b>B-SS514023-2025</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. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2XF	BS
1825	444TS	17.75	37.60	14.50	---	7.25
2025	444/445TS	19.75	39.60	14.50	16.50	8.25

10	CORRECTED C'BOX DIM. 5.75 WAS 5.56 ISAAC 09-5049	JJB 2/4/2011	TOLERANCES UNLESS SPECIFIED							
9	UPDATED WITH NEW FRAME. 28.92 DIMENSION WAS 26.52.		DEC	INCHES						
	ADDED PREVIOUS CONFIG. & F2 VIEW PER ISAAC 09-5049	JJB 12/16/2008	MH	x	±.1					
8	CHG. FAN GUARD & REV. C DIM. PER CN 39335	RWR 01/22/2007	ML	XX	±.03	TITLE	OUTLINE			
7	REVISED LEAD DIM FROM Ø4.12 PER CN 32179	CTO 03/24/2003	ML	XXX	±.005		444/445TS FR. - TEFC - STD.			
6	REISSUE - 26.52 DIMENSION WAS 24.19 CN 21946	KL 05/19/1999		XXX	±.0005	MATL				
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH				
			RFP	06-25-1991	PREV					
			NETWORK FILE NAME	SS514023						
			THIRD ANGLE PROJECTION							
			SIZE	DRAWING NO	REV					
			B	SS514023						



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

**CERTIFICATION DATA SHEET**

**Model#:** 445TSTFN14067 AA  
**CONN. DIAGRAM:** A-EE7300BH  
**OUTLINE:** B-SS514023-2025

**WINDING#:** T4454205 NONE 1  
**ASSEMBLY:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&125	112&93	1800	1785&1485	445TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	170&172	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	40	3300

FULL LOAD EFF: 95&94.5	3/4 LOAD EFF: 95	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.5&87	3/4 LOAD PF: 85	1/2 LOAD PF: 78	94.1	SQ CAGE IND RUN	50

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
441 LB-FT	1075	650 LB-FT 146	1000 LB-FT 226	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	51 LB-FT^2	1000 LB-FT^2	25 SEC.	2	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
6313	6313						

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
- FT-LB NONE V NONE Hz

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DATE: 06/21/2017 05:27:49 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 6/20/2017

445TSTFN14067

Customer: \_\_\_\_\_



Attention: \_\_\_\_\_

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

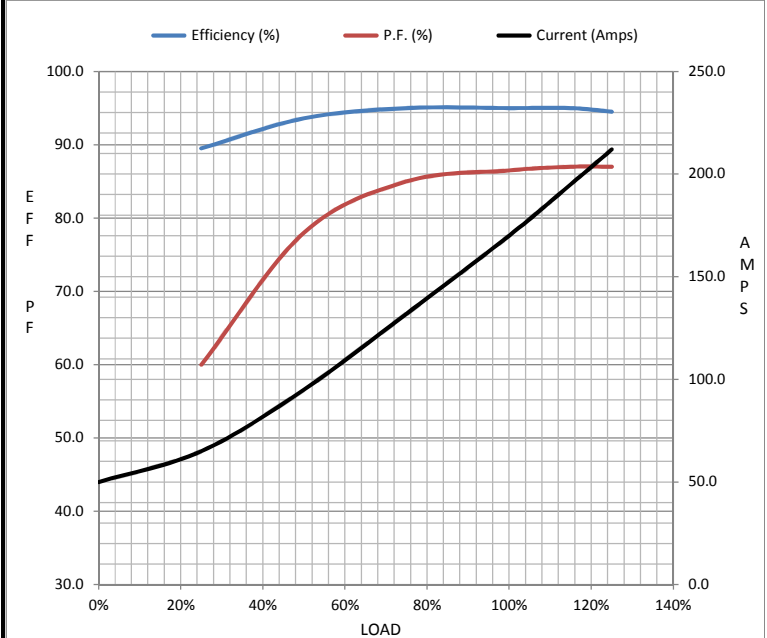
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	50.0	65.0	95.0	132	170	195	212	1,075
Torque (ft-lb)	0.00	110	220	330	441	508	553	650
RPM	1800	1795	1792	1788	1785	1,782	1780	0
Efficiency (%)		89.5	93.6	95.0	95.0	95.0	94.5	
P.F. (%)	7.0	60.0	78.0	85.0	86.5	87.0	87.0	26.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,075	1,000	600	170	50.0
Torque (ft-lb)	650	550	1,000	441	0.00

Information Block

HP	150.0
Sync. RPM	1800
Frame	445
Enclosure	TEFC
Construction	TFN
Voltage	460#380 V
Frequency	60 Hz
Design	A
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	75 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wk <sup>2</sup>	51.0 Lb-Ft <sup>2</sup>
Ref Wdg	T4454205 NONE
Sound Pressure @ 1M	80 dBA
VFD Rating	NONE
Outline Dwg	B-SS514023-2025
Conn. Diag	A-EE7300BH



Additional Specifications:

EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0210	0.0120	0.1690	0.1570	4.3850

Speed -Torque Curve

