

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 445TSTDS14007

Catalog No: U539

Fire Pump Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 445TS Frame, DP



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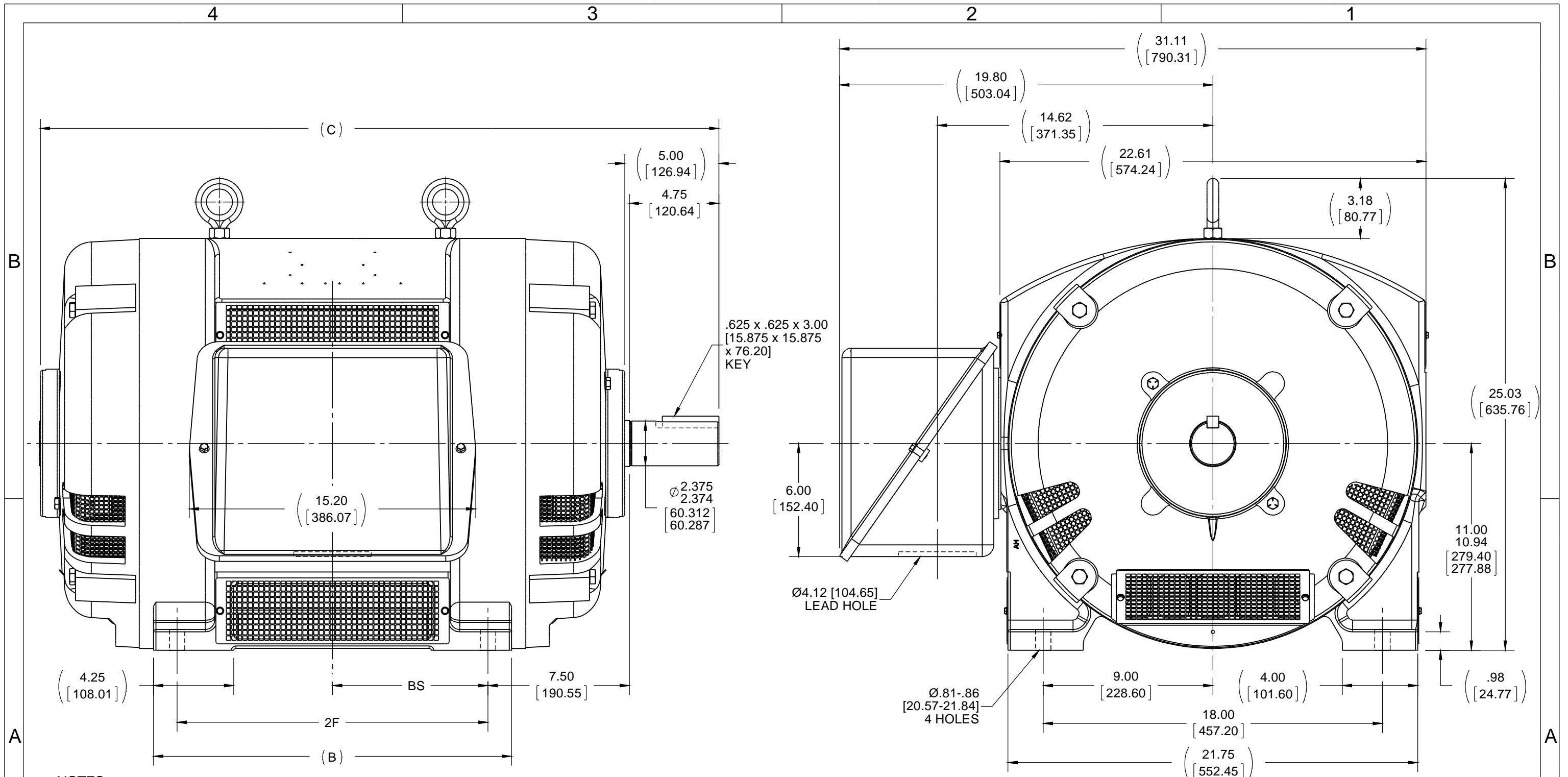
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	250 & 200 Hp
Output KW	187.0 & 149.0 kW	Voltage	460 & 380 V
Speed	3565 & 2965 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.5 & 94.5 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	279 & 270 A	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	No	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	.0198 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	36.00 in
Frame Length	20.50 in	Shaft Diameter	2.375 in
Shaft Extension	5 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS509829-2050	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. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 4. DIMENSION IN [] DESIGNATE MILLIMETERS.

DASH	FRAME	B	C	2F	BS
1850	444TS	17.00 [431.80]	34.00 [863.60]	14.50 [368.30]	7.25 [184.15]
2050	445TS	19.00 [482.60]	36.00 [914.40]	16.50 [419.10]	8.25 [209.55]

DRAWING REVISION G	REVISION BY JJB	DATE 11-21-2014
ECO ECO-0065854	APPROVED BY TDB	DATE 11-21-2014
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381]
 CORNER FILLETS: .02 [.51]
 MACHINED SURFACES: 125 $\sqrt{\text{mm}}$ 3.2 $\sqrt{\text{mm}}$
 mm SHOWN IN [BRACKETS]

DRAWN BY TLB
DATE 03-16-1988
APPROVED BY GK
DATE 03-16-1988
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 440TS FR. - STD. - DR. PR. - SCREENED	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS509829
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	DRAWING NO.	PAGE OF	REV.
				DIST	LB		A	EE7300BH		C

CERTIFICATION DATA SHEET

Model#: 445TSTDS14007 AN **WINDING#:** T445239 NONE 1
CONN. DIAGRAM: A-EE7300BH **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS509829-2050

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
250&200	187&149	3600	3565&2965	445TS	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	279&270	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	50	3300

FULL LOAD EFF: 94.5&94.5	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.5&89	3/4 LOAD PF: 87.5	1/2 LOAD PF: 83	93.6	SQ CAGE IND RUN	65

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
368 LB-FT	1700	575 LB-FT 156	900 LB-FT 245	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
84 dBA	94 dBA	31 LB-FT^2	80 LB-FT^2	10 SEC.	-	1400 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
NONE FT-LB NONE V NONE Hz

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DATE: 06/21/2017 05:10:18 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 19-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



445TSTDS14007

Submittal
 Data @ 460 V

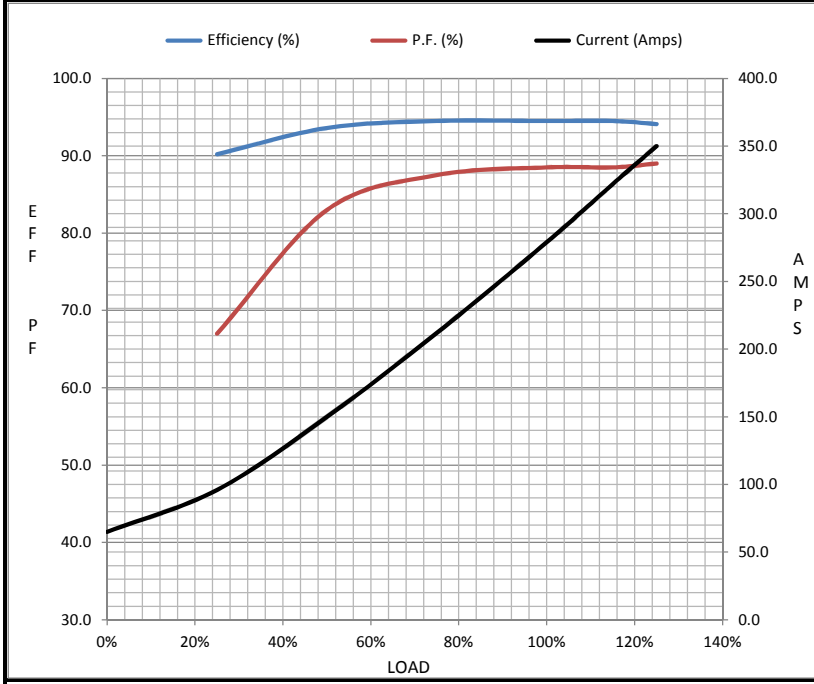
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	65.0	96.0	150	212	279	322	350	1,700
Torque (ft-lb)	0.00	94.0	183	275	368	425	462	575
RPM	3600	3590	3580	3572	3565	3,555	3550	0
Efficiency (%)		90.2	93.6	94.5	94.5	94.5	94.1	
P.F. (%)	9.0	67.0	83.0	87.5	88.5	88.5	89.0	32.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	2200	3400	3565	3600
Current (Amps)	1,700	1,575	925	279	65.0
Torque (ft-lb)	575	475	900	368	0.00

Information Block				
HP	250.0			
Sync. RPM	3600			
Frame	445			
Enclosure	DP			
Construction	TDS			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	50 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	31.0 Lb-Ft ²			
Ref Wdg	T445239 NONE			
Sound Pressure @ 1M	84 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS509829-2050			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0160	0.0090	0.1050	0.0940	3.9920



Speed - Torque Curve

