PRODUCT INFORMATION PACKET

Model No: 444TSTFS4001
Catalog No: E992
Other Purpose Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 444TS Frame, TEFC

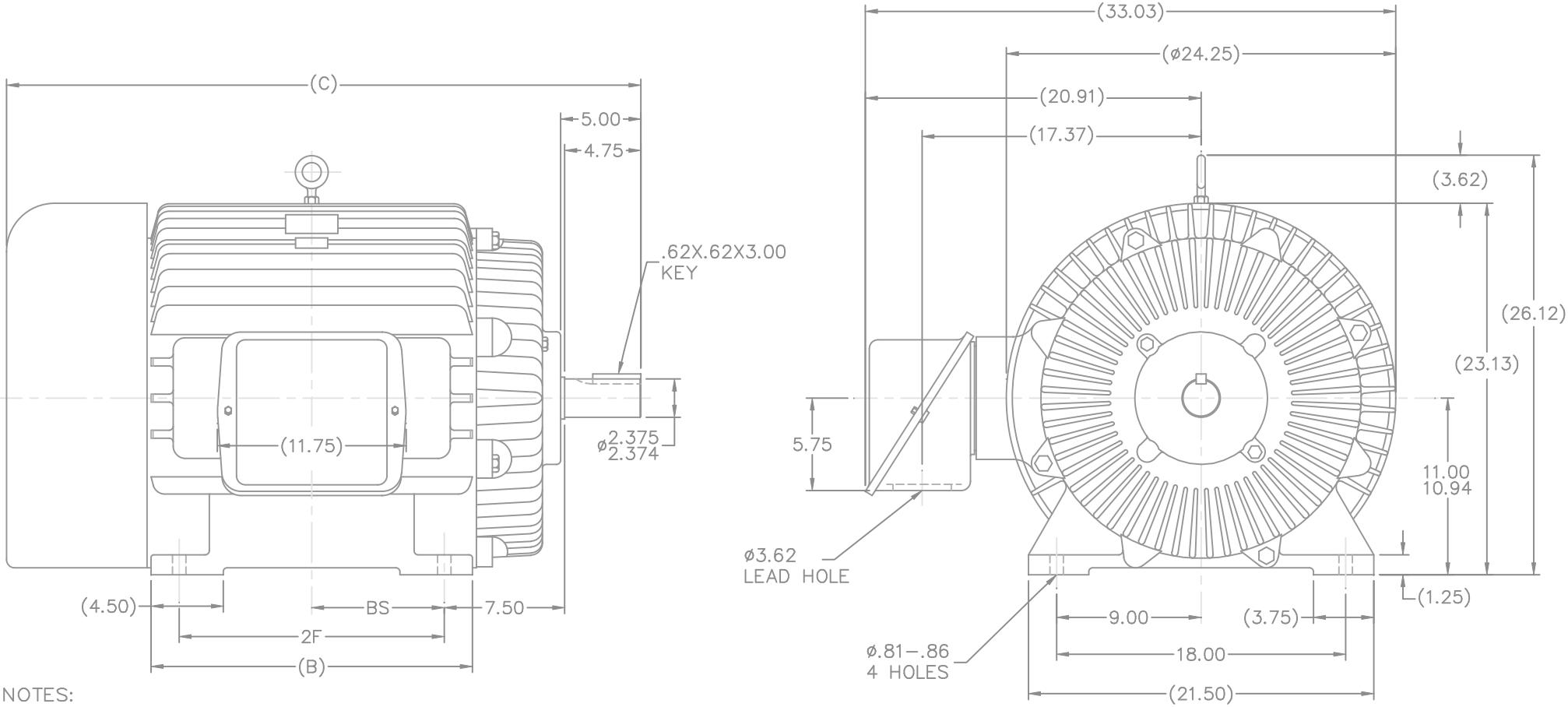
marathon® Motors

Nameplate Specifications

Phase	3	Output HP	125 & 100 Hp
Output KW	93.0 & 75.0 kW	Voltage	460 & 380 V
Speed	3565 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	444TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.5 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	137 & 136 A	Power Factor	90.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start
Poles	2	Rotation	Reversible
Resistance Main	.032 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	37.50 in
Frame Length	18.50 in	Shaft Diameter	2.380 in
Shaft Extension	5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS504864-1850	Connection Drawing	A-EE7341C



NOTES:

1. BOX CAN BE ROTATED IN 90° STEPS
2. 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	BS	
1850	444TS	18.00	37.50	14.50	7.25	
2050	445TS	20.00	39.50	16.50	8.25	

NO.	REVISION	BY & DATE	CHK
8	UPDATED DRAWING	RJW 04-17-2007	
7	REDRAWN IN AUTOCAD	TAT 06-29-2004	ML
6	CORRECTED OVERALL DIMENSIONS CN 29200-95	CAV 02-01-2000	
5	REDRAWN ON CADD	TLB 01-06-1989	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

TITLE OUTLINE
440TS FR. – TEFC – STD.

MAT'L.

FINISH

DRAWN	TLB 01-06-1989
CHK	FG 01-06-1989
APPD	GK 01-06-1989
SCALE	1=6
REF	
FMF	
PREV	

RFP

CAD FILE ss504864

DIST WA

SIZE	DRAWING NO.	PAGE OF	REV.
B	SS504864		8

EE7341C

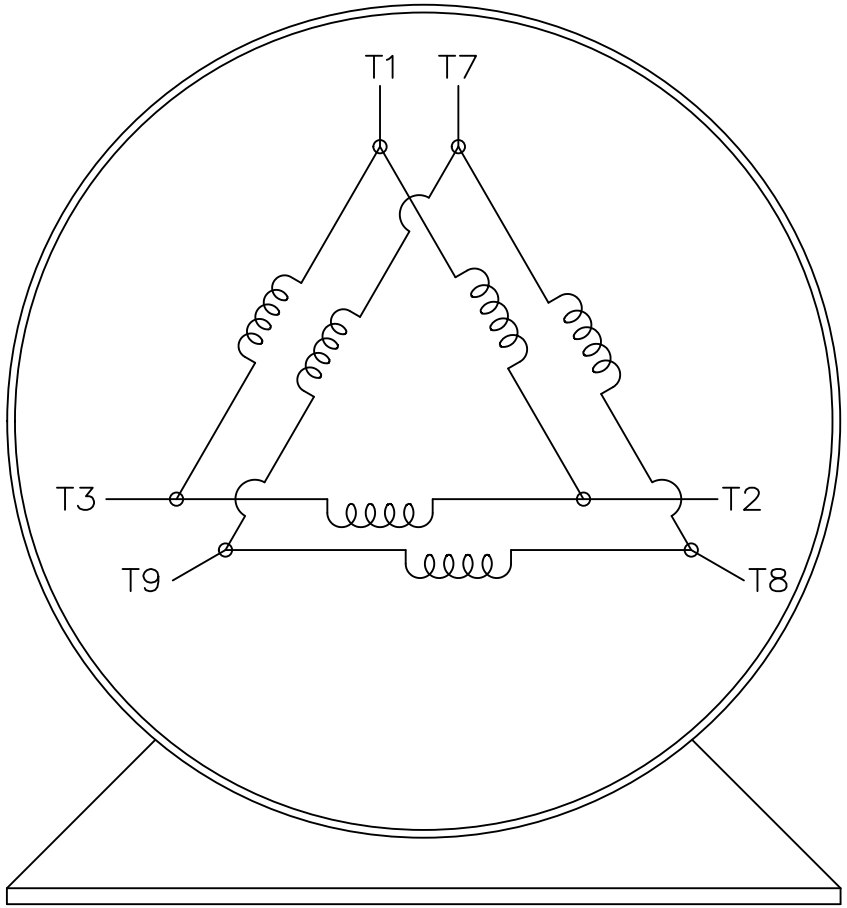
THREE PHASE – PART WINDING START
DELTA – 6 LEADS

START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7–T8–T9 OPEN

RUN

CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3



VIEW OF TERMINAL END

IF MOTOR HAS 2 T'S

START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7–T8,T8–T9,T9 OPEN

RUN

CONNECT T1,T1&T7,T7 TO LINE 1
CONNECT T2,T2&T8,T8 TO LINE 2
CONNECT T3,T3&T9,T9 TO LINE 3

NO.	REVISION	BY & DATE	CHK
E	NOTE ADDED FOR 2 T'S	NAR 17-12-2020	RC
D	RE-DRAWN WITH REGAL LOGO ECO-0110493	WGJ 09-30-2016	EMH

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	± –
.XX	± –
.XXX	± –
.XXXX	± –
ANG	± –

REGAL REGAL - BELOIT CORPORATION

TITLE: CONNECTION DIAGRAM 3Ø – 6 LEADS

MAT'L.

FINISH

RFP

DIST

CAD FILE EE7341C

DRAWN BLR	03-09-1998
CHK ML	03-23-1998
APPD GK	03-23-1998
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7341C | PAGE OF | REV. E

CERTIFICATION DATA SHEET

Model#:	444TSTFS4001 BP	**WINDING#:**	T444227 NONE 2
CONN. DIAGRAM:	A-EE7341C	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS504864-1850		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125&100	93&75	3600	3565&2960	444TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	137&136	PART WINDING START	CONTINUOUS	F1	1.15/1.15	40	3300

FULL LOAD EFF: 94.5&94.1	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.1	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 90.5&90	3/4 LOAD PF: 89	1/2 LOAD PF: 84.5	93.6	SQ CAGE IND RUN	34.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
184 LB-FT	907	315 LB-FT 171	520 LB-FT 283	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	24.5 LB-FT^2	70 LB-FT^2	15 SEC.	2	1650 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	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6313	BALL 6313	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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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FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

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

marathon® electric

444TSTFS4001

Submittal

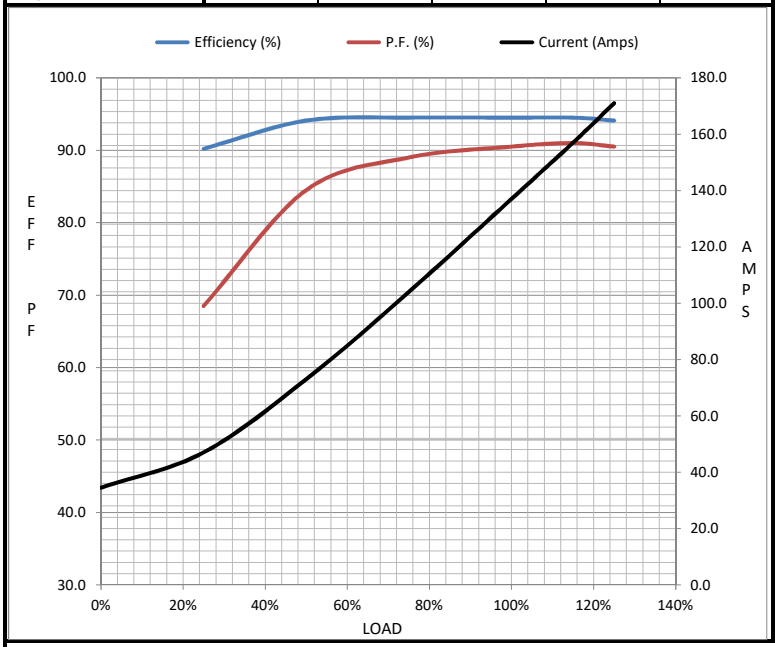
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	34.5	47.0	73.0	104	137	157	171	907	
Torque (ft-lb)	0.00	46.0	92.0	138	184	212	230	315	
RPM	3600	3592	3585	3575	3565	3,555	3550	0	
Efficiency (%)		90.2	94.1	94.5	94.5	94.5	94.1		
P.F. (%)	12.0	68.5	84.5	89.0	90.5	91.0	90.5	32.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3425	3565	3600
Current (Amps)	907	850	550	137	34.5
Torque (ft-lb)	315	290	520	184	0.00



Information Block

HP	125.0	
Sync. RPM	3600	
Frame	444	
Enclosure	TEFC	
Construction	TFS	
Voltage	460#380	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	80	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	24.5	Lb-Ft²
Ref Wdg	T444227 NONE	
Sound Pressure @ 1M	78	dBA
VFD Rating	NONE	
Outline Dwg	B-SS504864-1850	
Conn. Diag	A-EE7341C	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0220	0.0180	0.2000	0.1700	8.2170

Speed -Torque Curve