PRODUCT INFORMATION PACKET

Model No: 444TTFC6633
Catalog No: Y824A
125,1800,TEFC,444T,3/60/460
Other Purpose

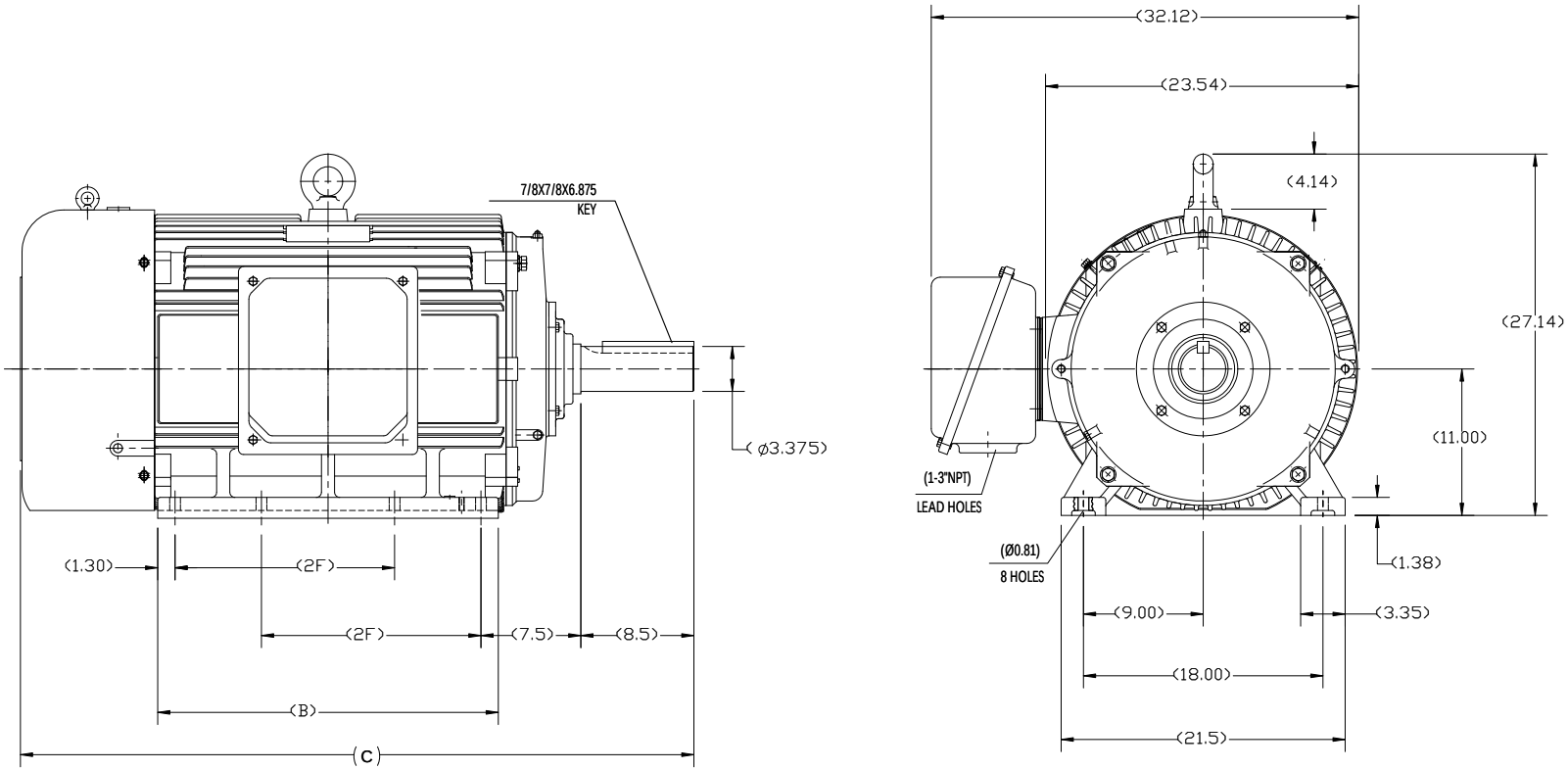
marathon® Motors

Nameplate Specifications

Output HP	**125 Hp**	Output KW	**93 kW**
Frequency	**60 Hz**	Voltage	**460 V**
Current	**140 A**	Speed	**1786 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**95.4 %**	Duty	**CONTINUOUS**
Insulation Class	**F**	Design Code	**C**
KVA Code	**F**	Frame	**444T**
Enclosure	**TEFC**	Overload Protector	**NOT**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**NU319**
Opp Drive End Bearing Size	**6317**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**55**		

Technical Specifications

Electrical Type	**SQ CAGE INV RATED**	Starting Method	**PWS & YDRUN OR INV**
Poles	**4**	Rotation	**REV**
Mounting	**RIGID**	Motor Orientation	**HORIZONTAL**
Drive End Bearing	**ROLLER**	Opp Drive End Bearing	**BALL**
Frame Material	**CAST IRON**	Shaft Type	**T**
Overall Length	**50.78 in**	Shaft Diameter	**3.38 in**
Shaft Extension	**8.5 in**	Assembly/Box Mounting	**F1/F2 CAPABLE**
Outline Drawing	**SS620677**	Connection Diagram	**EE7300BH**



444T	50.787	25.60	14.50
445T			16.50
FRAME	C	B	2F

DRAWING REVISION: B	REVISION BY: W. JOERGER	DATE: 02-27-2017
ECO: ECO-0118824	APPROVED BY: E. HEIL	DATE: 02-27-2017
ECO DESCRIPTION: REMOVED 447T/449T FRAME MOTORS		

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 / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: ZYH	
DATE: 04-22-2012	
APPROVED BY: WGH	
DATE: 04-22-2012	
REFERENCE	
THIRD ANGLE PROJECTION	

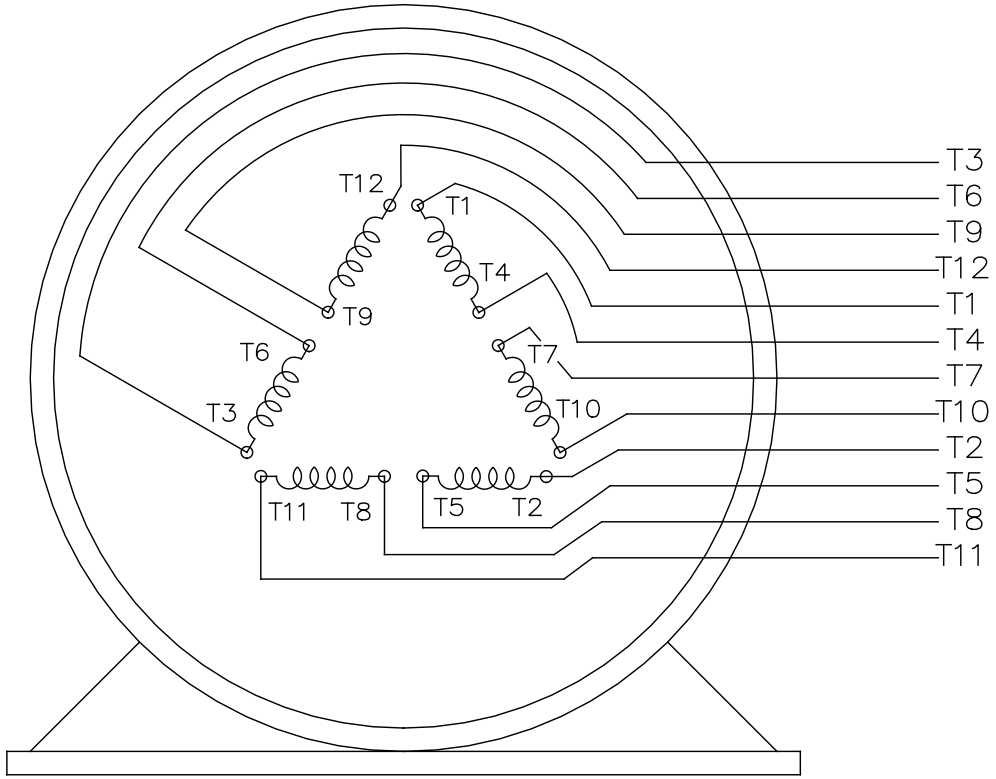
Regal Beloit America, Inc.

DESCRIPTION: OUTLINE
444T/445T FR-TEFC-CAST IRON-SEVERE DUTY

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS620677	1 OF 1

EE7300BH



VIEW OF TERMINAL END

T12(W4)
T1(U1)
T6(W2)
T7(U3)
LINE 1

T2(V1)
T4(U2)
T8(V3)
T10(U4)
LINE 2

T3(W1)
T5(V2)
T9(W3)
T11(V4)
LINE 3

NO.	REVISION	BY & DATE
D	CHANGED TO REGAL TITLE BLOCK ECO-0108299	WGJ 08/22/2016
1	ADDED IEC TERMINAL MARKINGS CN 41429	JJB 05/24/2007

	DEC.	INCHES
	.X	±.1
	.XX	±.02
EMH	.XXX	±.005
ML	.XXXX	±.0005
CHK	ANG	±7'30"

REGAL - BELOIT CORPORATION

DRAWN RJW 02-11-2005
CHK ML 02-11-2005
APPD GK 02-11-2005
SCALE
REF
FMF
PREV

TITLE CONNECTION DIAGRAM
12 LEAD- SINGLE VOLTAGE

MAT'L.
FINISH
CAD FILE ee7300bh
RFP 02-11-2005
DIST LB

SIZE	DRAWING NO.	PAGE	OF	REV.
A	EE7300BH			C

CERTIFICATION DATA SHEET

Model#:	444TTFC6633 AA	**WINDING#:**	CHT44440004 NONE 1
CONN. DIAGRAM:	EE7300BH	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	SS620677		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125&100	93&75	1800	1786&1486	444T	TEFC	F	C

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	140&135	PWS & YDRUN OR INV	CONTINUOUS	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95.4&95	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88&88	3/4 LOAD PF: 87	1/2 LOAD PF: 83	95	SQ CAGE INV RATED	35

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
367 LB-FT	878	825 LB-FT 225	850 LB-FT 230	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	60 LB-FT^2	750 LB-FT^2	25 SEC.	2	2450 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
ROLLER	BALL	SHC-100/POLYREX	T	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON
NU319	6317						

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: CONSTANT 10:1 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: 07/08/2017 05:58:22 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 20-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

444TTFC6633

Submittal

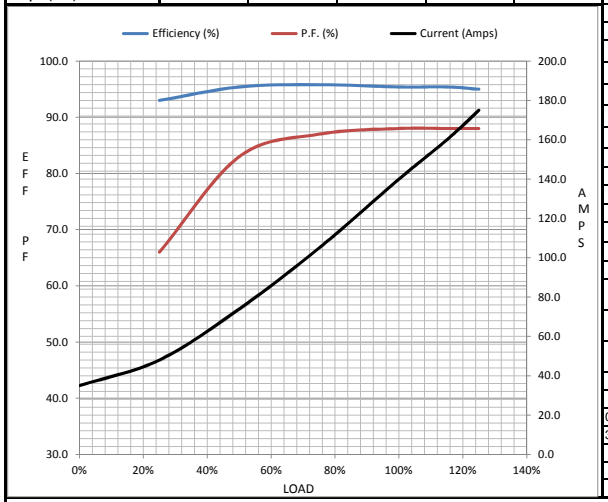
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	35.0	48.0	74.0	105	140	160	175	878	
Torque (ft-lb)	0.00	91.5	183	275	367	423	460	825	
RPM	1800	1796	1794	1790	1786	1,784	1782	0	
Efficiency (%)		93.0	95.4	95.8	95.4	95.4	95.0		
P.F. (%)	5.5	66.0	83.0	87.0	88.0	88.0	88.0	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1000	1725	1786	1800
Current (Amps)	878	750	450	140	35.0
Torque (ft-lb)	825	650	850	367	0.00



Information Block

HP	125.0	
Sync. RPM	1800	
Frame	444	
Enclosure	TEFC	
Construction	TFC	
Voltage	460#380	V
Frequency	60	Hz
Design	A	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	60.0	Lb-Ft²
Ref Wdg	CHT44440004	NONE
Sound Pressure @ 1M	75	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	SS620677	
Conn. Diag	EE7300BH	

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0290	0.0150	0.1580	0.2250	7.5700

Speed -Torque Curve