

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 445TTFC6080
Catalog No: GT1150A
125,1200,TEFC,445T,3/60/575
Totally Enclosed Fan Cooled (TEFC)



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REGAL



Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	575 V
Current	114.0 A	Speed	1190 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	445T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6319
Opp Drive End Bearing Size	6317	UL	Listed
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Frame Length	23.62 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS557009	Connection Diagram	EE7300

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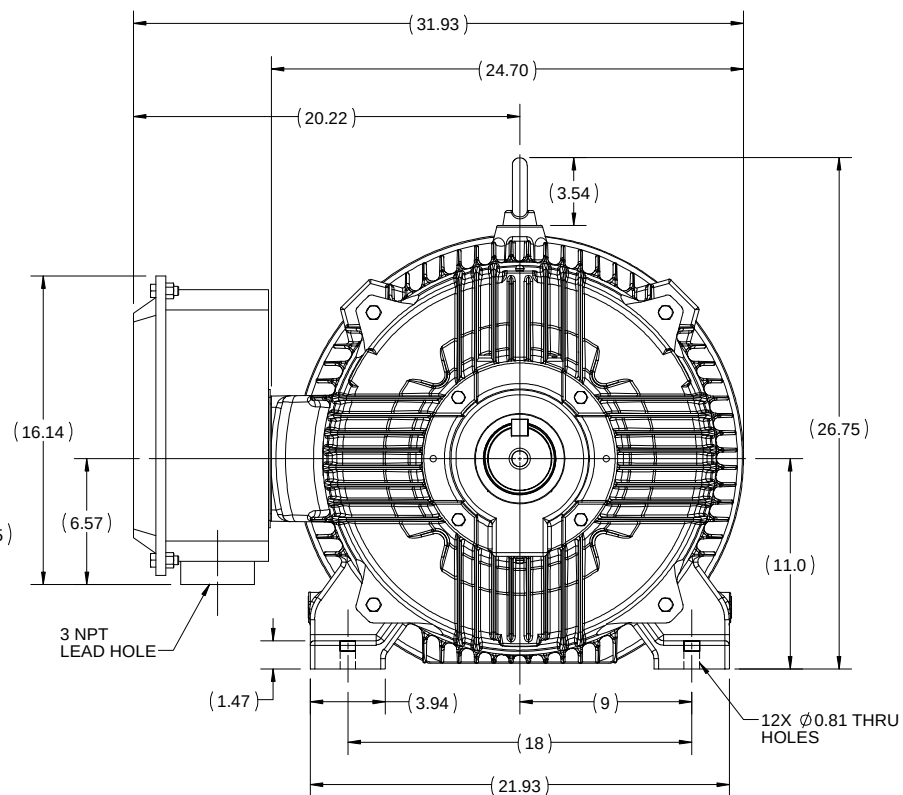
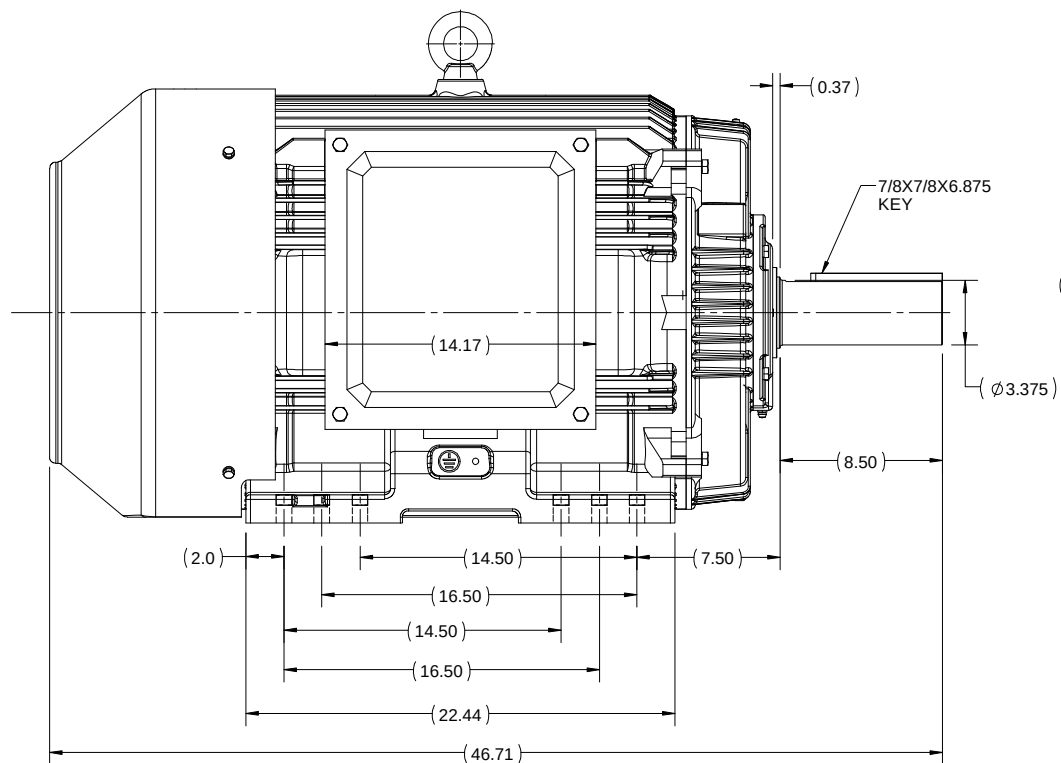
OUTLINE

B

B

A

A



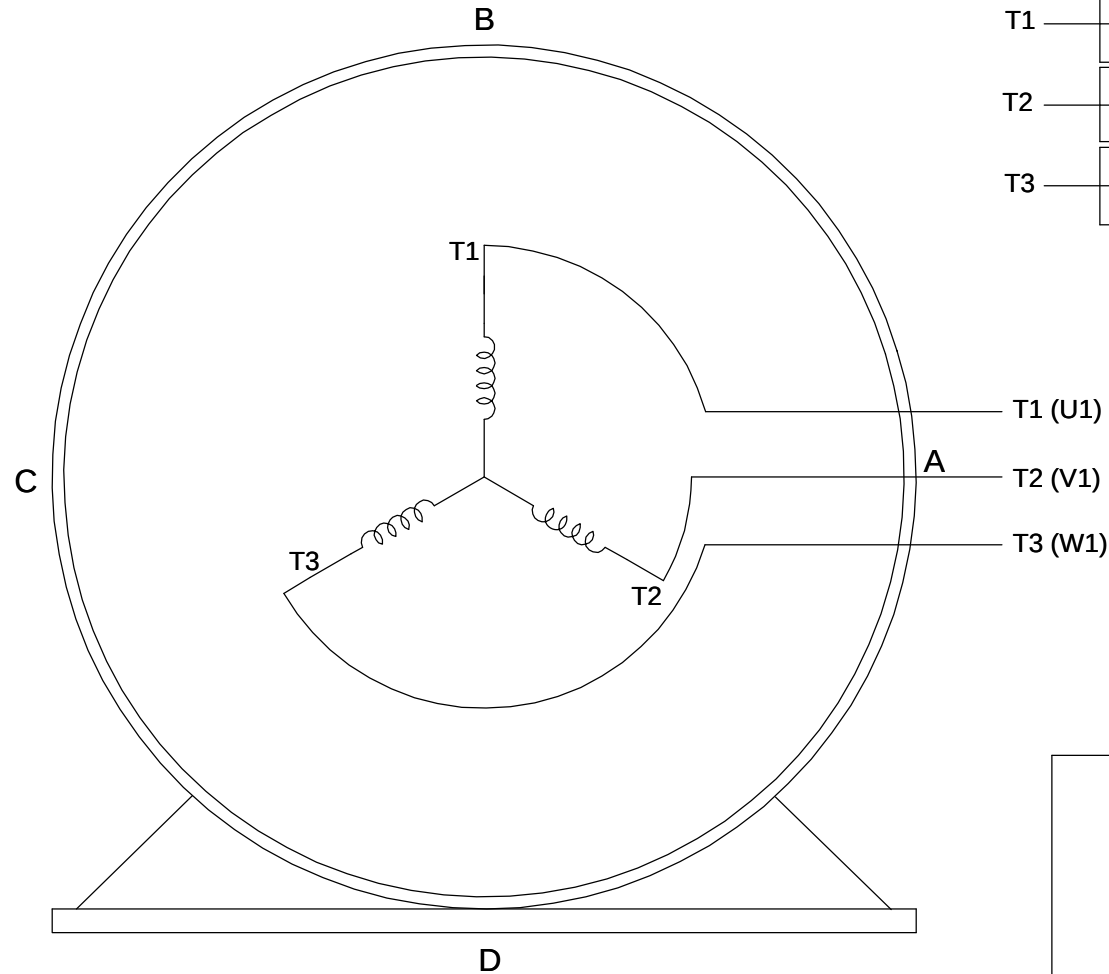
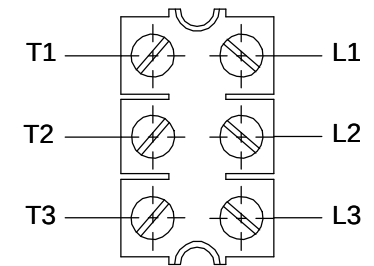
DRAWING REVISION C	REVISION BY GNK	DATE 04/05/2018
ECO ECO-0143704	APPROVED BY SBD	DATE 05/04/2018
ECO DESCRIPTION DRAWING UPDATED		
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DRAWN BY NIV	 Regal Beloit America, Inc.	
DATE 25/03/2016		
APPROVED BY SBD	DESCRIPTION OUTLINE 444/445T FR-TEFC	
DATE 25/03/2016		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS557009
		SHEET 1 OF 1

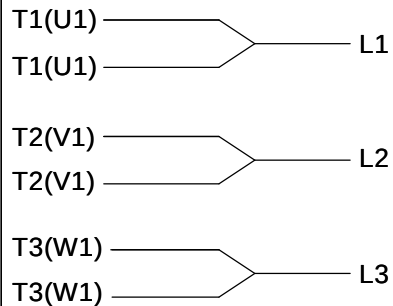
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED



IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION



VIEW OF TERMINAL END

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE

THIRD ANGLE
PROJECTION



Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL

PROCESS/FINISH

SIZE
A

DRAWING NUMBER

EE7300

SHEET
1 OF 1



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

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7300
OUTLINE: SSS57009
WINDING #: HE32806006 2

CUSTOMER PO #:
MODEL #: 445TTFC6080 AA
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN		
125	93.0	1200	1190	445T	TEFC	G	B		
PH	HZ	VOLTS	AMPS	START TYPE		DUTY	INSL	S.F.	AMB°C
3	60	575	114	LINE OR INVERTER		CONTINUOUS	F7	1.15	40

FULL LOAD EFF:		95	3/4 LOAD EFF:		95	1/2 LOAD EFF:		94.5	GTD. EFF		ELEC. TYPE		
FULL LOAD PF:		86	3/4 LOAD PF:		83.5	1/2 LOAD PF:		76.5	94.5		SQ CAGE INV RATED		
F.L. TORQUE		LOCKED ROTOR AMPS			L.R. TORQUE			B.D. TORQUE			F.L. RISE°C		
552 LB-FT		725.6			992 LB-FT			180 %			1410 LB-FT 255 %		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	108 LB-FT^2	- LB-FT^2	25 SEC.	-	2675 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATTION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	DIVISION 2 T2B	FALSE	NONE	BLUE - MARATHON
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL		FRAME MATERIAL
DE	ODE							
BALL	BALL							
6319	6317	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON

THERMO-PROTECTORS					THERMISTORS		CONTROL	SPACE HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs						
NONE	NOT	NONE	NONE		NONE	FALSE	NONE	VOLTS	

*

INVERTER TORQUE: VARIABLE 10:1

INV. HP SPEED RANGE: NONE

N

ENCODER: NONE

NONE NONE

O

NONE NONE

PPR

T

BRAKE: NONE NONE

NONE P/N NONE

E

NONE NONE

NONE

S

NONE FT-LB NONE V NONE HZ

*** N O T E S**

PREPARED BY: Fareeda Dudekula
DATE: 05/14/2018 01:22:38 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 5/3/2018

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



445TTFCD6080

Submital

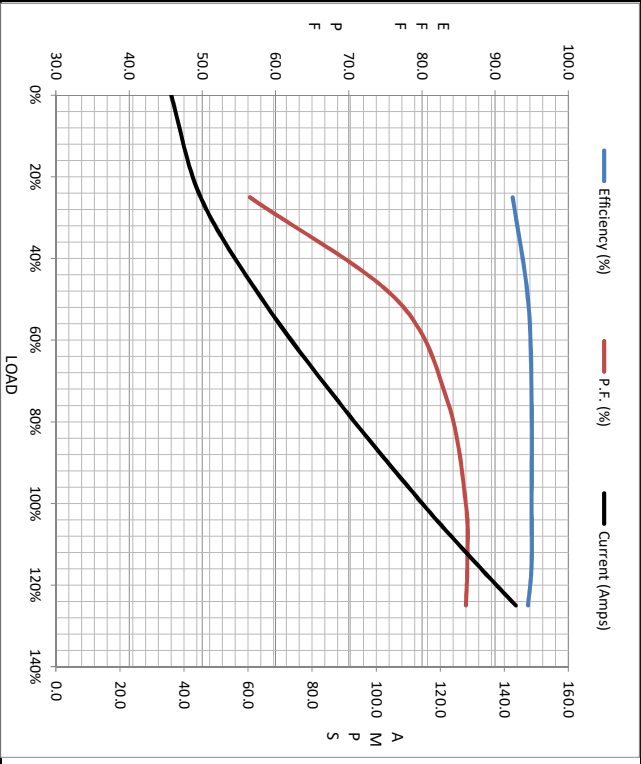
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	36.0	45.2	64.4	88.2	114	132	144	726
Torque (ft-lb)	0.00	137	274	413	552	636	693	992
RPM	1200	1198	1195	1192	1190	1,190	1188	0
Efficiency (%)		92.4	94.5	95.0	95.0	95.0	94.5	
P.F. (%)	5.5	56.5	76.5	83.5	86.0	86.2	86.0	32.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	600	1158	1190	1200		
Current (Amps)	726	580	392	114	36.0		
Torque (ft-lb)	992	832	1,410	552	0.00		
						HP	125.0
						Syn. RPM	1200



Frame	445182TTFCD6080			
Enclosure	TEFC			
Construction	TFC			
Voltage	575		V	
Frequency	60		Hz	
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55		°C	
Duty	CONT			
Ambient	40		°C	
Elevation	1,000		feet	
Rotor/Shaft wk²	108		Lb-Ft²	
Ref Wdg	HE32806006 NONE			
Sound Pressure @ 1M	75		dBA	
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS557009			
Conn. Diag	EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0330	0.0240	0.2640	0.4390	9.0800

Speed - Torque Curve

