

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 444TTFCD6080
Catalog No: GT1147A
100,1200,TEFC,444T,3/60/575
Totally Enclosed Fan Cooled (TEFC)



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REGAL



Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	575 V
Current	91.5 A	Speed	1190 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	444T
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	23.93 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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Uncontrolled Copy

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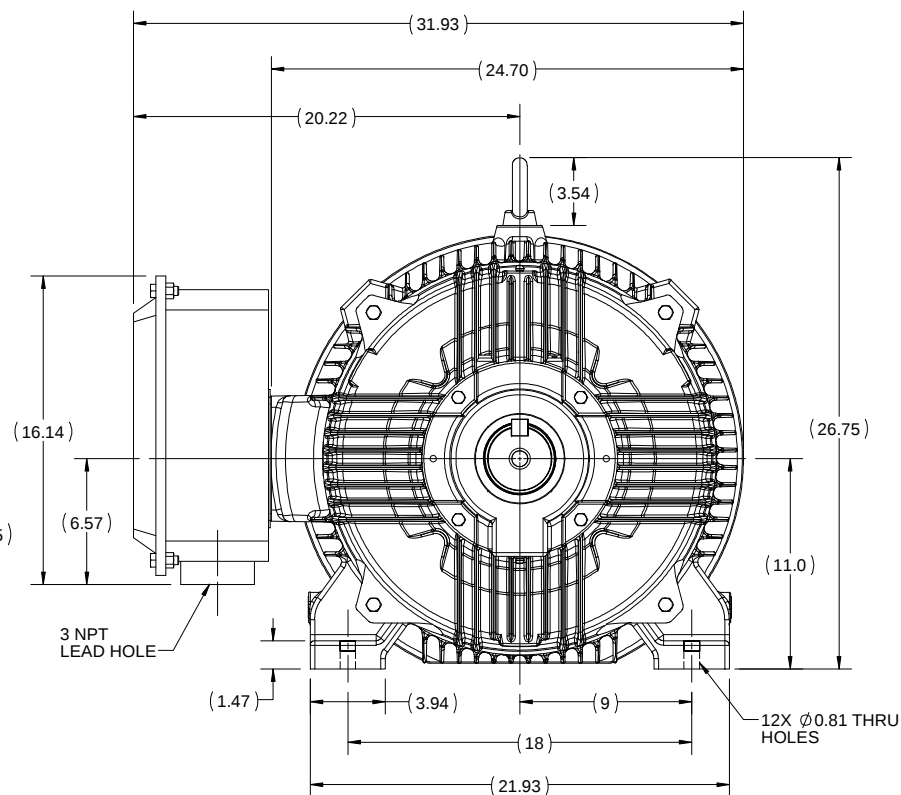
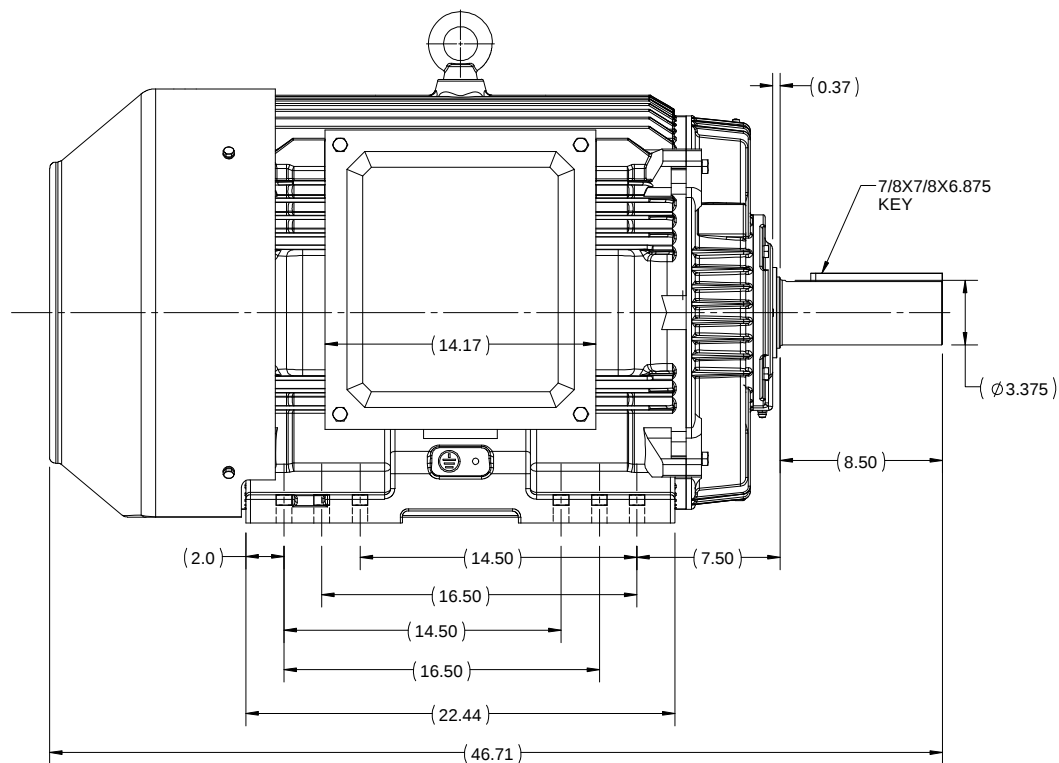
OUTLINE

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

4

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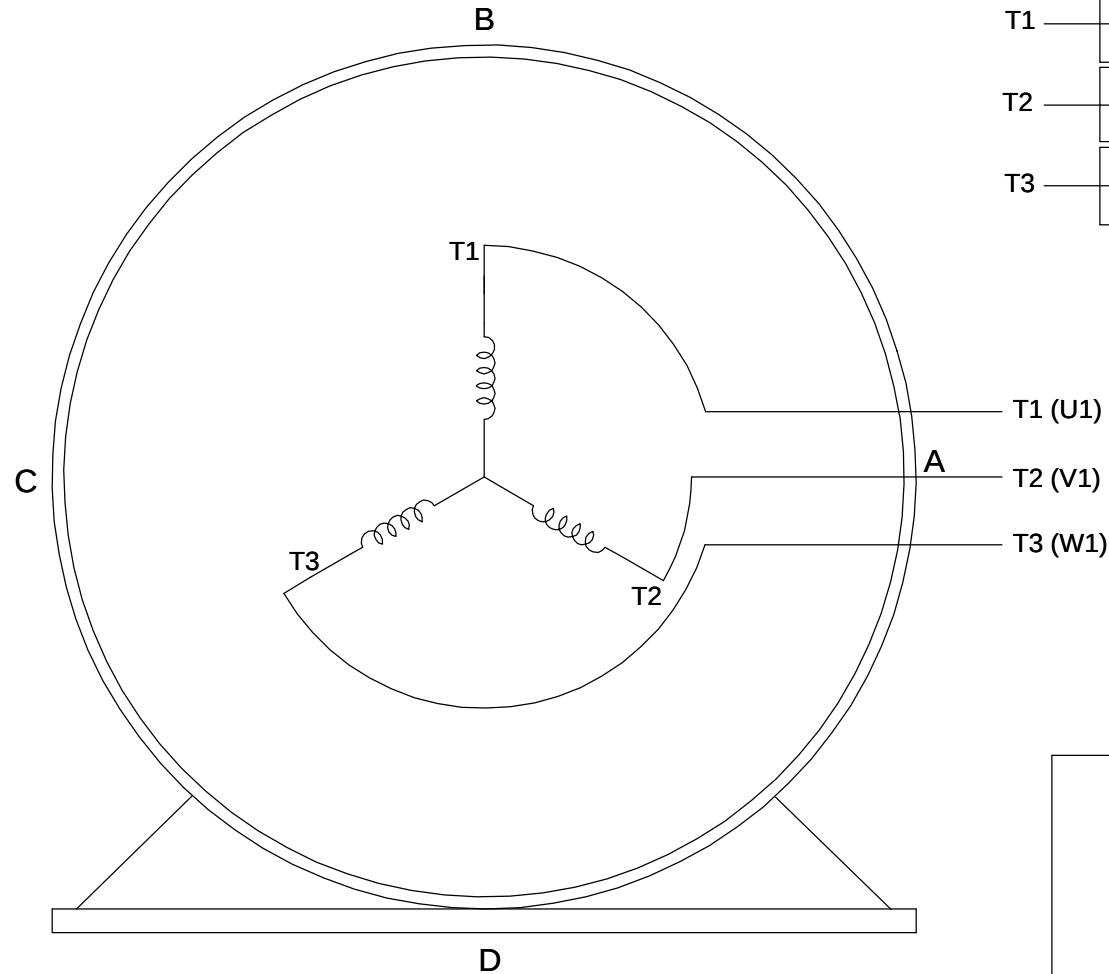
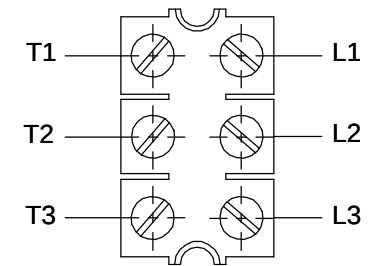
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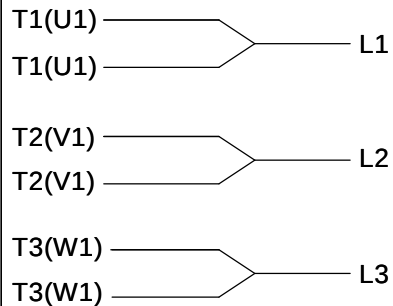
THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:

ORDER #:

EE7300

CONN. DIAGRAM:

SS557009

OUTLINE:

HE32806005

WINDING:

NONE

SPEED:

3

CUSTOMER P.O. #:

REFERENCE MODEL #:

444TFC06080

CAT #:

G11147A

CUSTOMER PART #:

MOUNTING:

F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
100	75	1200	1190	444T	TEFC	TFC	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	91.5	LINE OR INVERTER	CONT	F	1.15	40	3300
F.L. EFF		95.0	3/4 LD EFF		95.0	1/2 LD EFF		94.5	GTD EFF
F.L. PF		86.0	3/4 LD PF		84.0	1/2 LD PF		77.0	94.5
SQ CAGE INV RATED									
F.L. TORQUE		LR AMPS @ 460 V			L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)
441	LB-FT	580			726 LB-FT		1,082 LB-FT		245%
55									
@ 3 FT.		POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT		
75	DBA	84	DBA	95.0	LB-FT²	1400	LB-FT²	25	SEC.
						2			2625
								LB.	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT					
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	DIVISION 2 T2B	NO	NONE	BLUE (ENAMEL)					
BEARINGS		GREASE		SHAFT TYPE		SPECIAL DE		SPECIAL ODE					
DE	ODE												
BALL	BALL	POLYREX EM		T		NONE		NONE					
6319	6317							1045 HOT ROLLED (C-204)					
								CAST IRON					
THERMOSTATS		PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS						
NONE		NOT	NONE	NONE	NONE	FALSE	NA						
R1 (ohms/ph)		R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)		FLOAT					
0.042		0.031	0.338	0.545	11.541	0.080		ODE					

Data Sheet

Date: 5/3/2018

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA

4441TFC06080



Submital

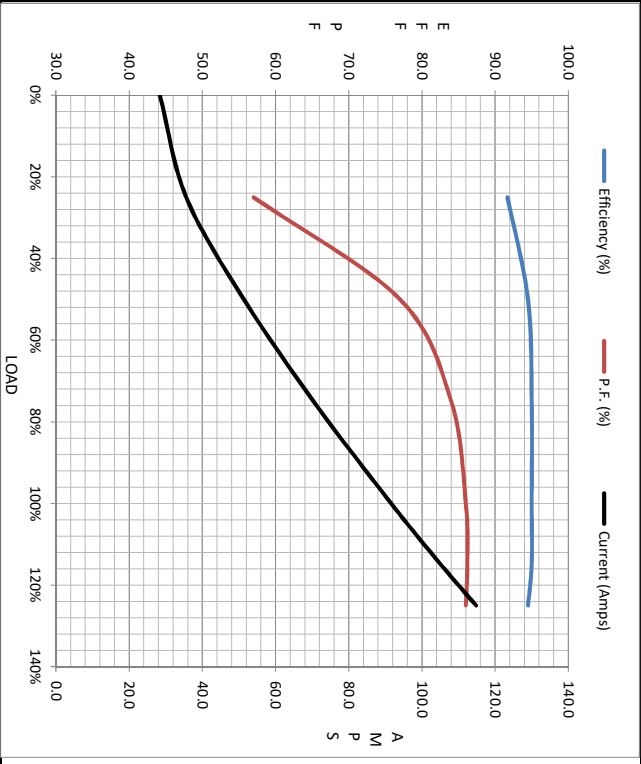
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	28.4	35.6	51.4	70.4	91.6	105	115	580
Torque (ft-lb)	0.00	110	220	331	441	510	554	726
RPM	1200	1198	1195	1192	1190	1,188	1186	0
Efficiency (%)		91.7	94.5	95.0	95.0	95.0	94.5	
P.F. (%)	5.5	57.0	77.0	84.0	86.0	86.2	86.0	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	600	1160	1190	1200		
Current (Amps)	580	464	304	91.6	28.4		
Torque (ft-lb)	726	610	1,082	441	0.00		
						HP	100.0
						Syn. RPM	1200



Frame	444182TFC6080			
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	95.0		Lb-Ft²	
Ref Wdg	HE32806005 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
0.0420	0.0310	0.3380	0.5450	11.5410

Speed - Torque Curve

