

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 444TSTFCD16002
Catalog No: GT1148A
125,3600,TEFC,444TS,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	110.0 A	Speed	3580 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	444TS
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6314
Opp Drive End Bearing Size	6314	UL	Listed
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	TS
Frame Length	23.62 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS557008	Connection Diagram	EE7300

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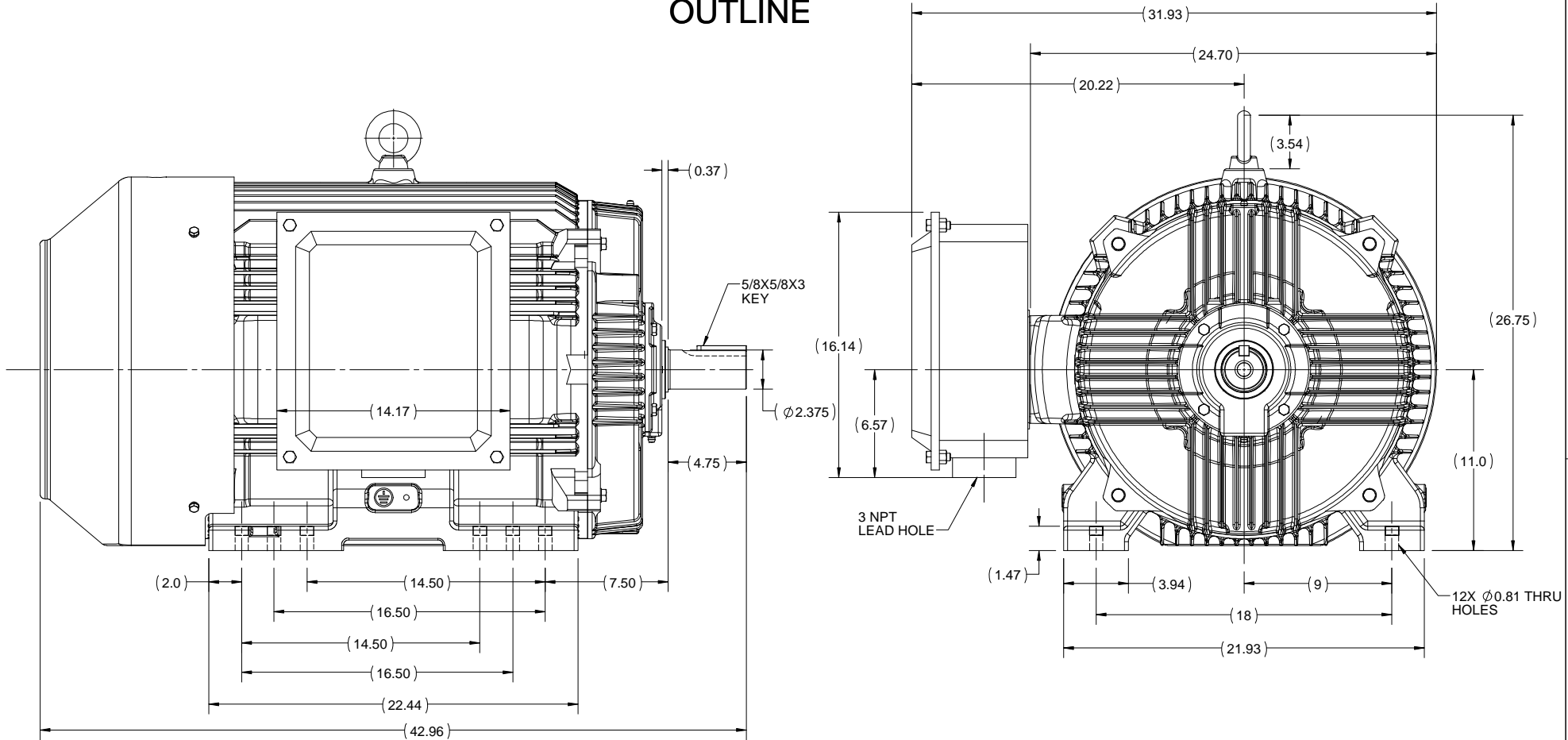
OUTLINE

B

B

A

A



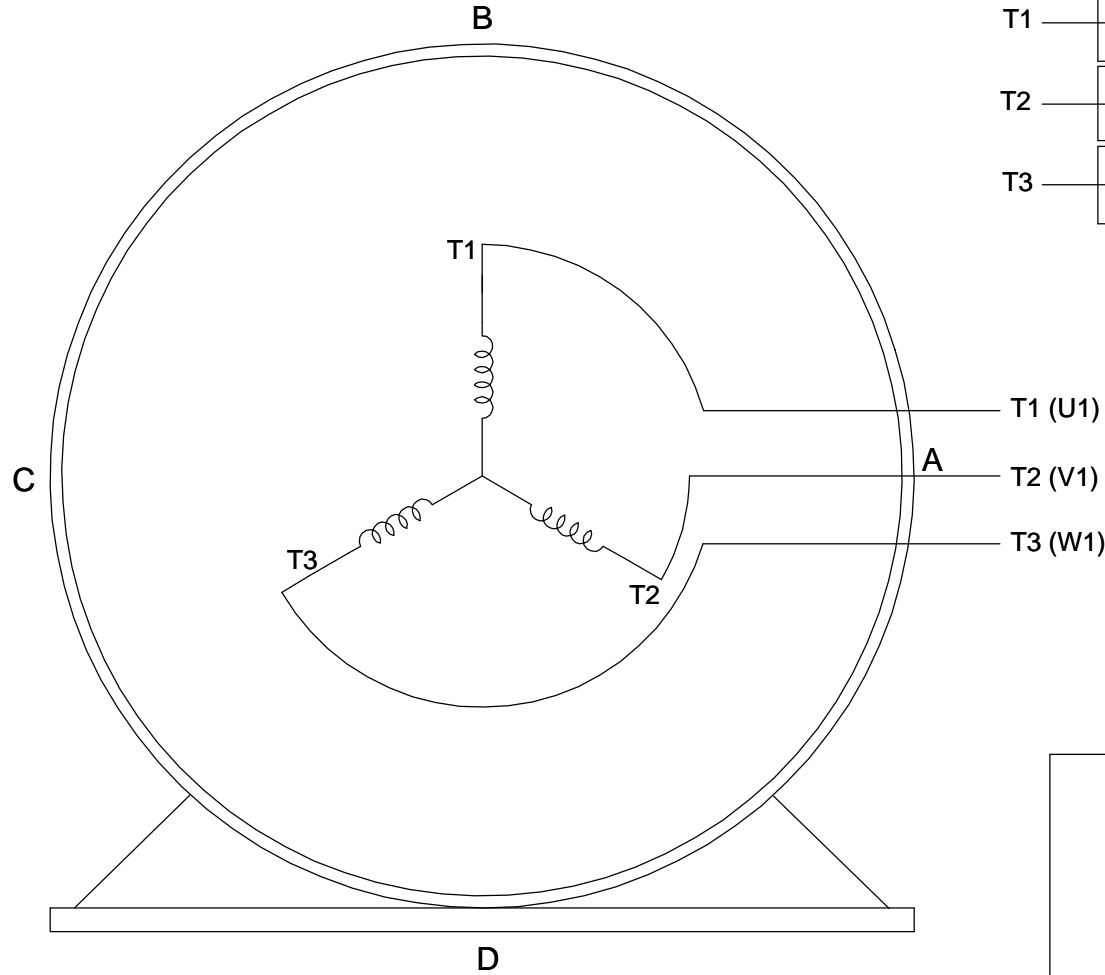
DRAWING REVISION C	REVISION BY GNK	DATE 04/05/2018
ECO ECO-0143704	APPROVED BY SBD	DATE 04/05/2018
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DRAWN BY NIV	Regal Beloit America, Inc.
DATE 29/03/2015	
APPROVED BY SBD	DESCRIPTION OUTLINE 444/445TS FR-TEFC
DATE 29/03/2015	MATERIAL
REFERENCE	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B
	DRAWING NUMBER SS557008
	SHEET 1 OF 1

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

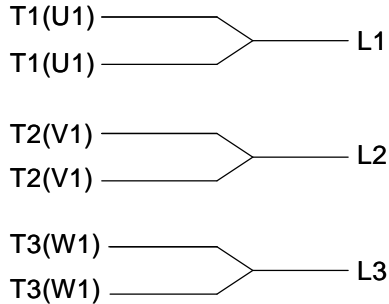
**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**

- L1 WHITE
- L2 RED
- L3 BLACK

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 P.O. #:
 ORDER #: EE7300 REFERENCE MODEL #: 444TSTFCOD16002
 CONN. DIAGRAM: SSS57008 CAT #: GT1148A
 OUTLINE: HE32802009 NONE 2 CUSTOMER PART #:
 WINDING: MOUNTING: F1/F2 CAPABLE
 SPEED:
TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
125	93	3600	3580	444TS	TEFC	TFC	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	110	LINE OR INVERTER	CONT	F	1.15	40	3300
F.L. EFF	95.0	3/4 LD EFF	94.5	1/2 LD EFF	93.6	GTD EFF	ELECT. TYPE		
F.L. PF	89.5	3/4 LD PF	87.5	1/2 LD PF	81.5	94.5	SQ CAGE INV RATED		
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)					
183 LB-FT	724	275 LB-FT	150%	513 LB-FT	280%	60			
@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT			
87 DBA	96 DBA	31.0 LB-FT²	75 LB-FT²	15 SEC.	2	2200 LB.			

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	DIVISION 2 T2B	NO	NONE	BLUE (ENAMEL)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL		
DE BALL 6314	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON		

THEMOSTATS	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
0.033	0.017	0.252	0.291	10.712	0.080	ODE

INVERTER TORQUE: VARIABLE 10:1
 INV. HP SPEED RANGE: NONE

ENCODER: NONE
 NONE
 NONE
 BRAKE: NONE
 NONE
 NONE
 NONE PPR

PREPARED BY: FAREEDA DUDEKULA
 DATE: 5/3/2018

UL: NO LETTER - ME WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL
 HZ:

Data Sheet

Date: 5/3/2018

444TSTFCDD16002

Customer:
 Attention:
 Submitted by: FAREEDA DUDEKULA



Submital
 Data @ 575 V

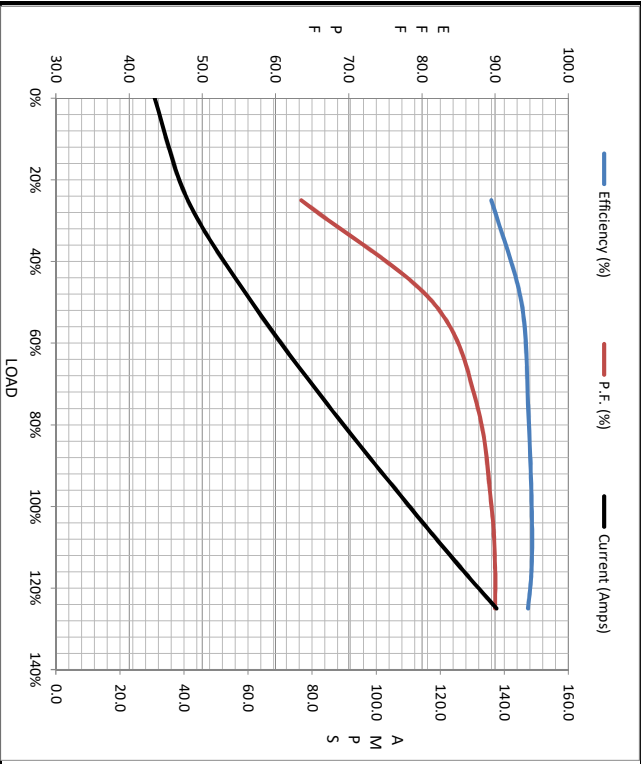
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	30.8	41.2	61.2	84.8	110	126	138	724
Torque (ft-lb)	0.00	45.5	91.5	138	183	211	230	275
RPM	3600	3595	3590	3585	3580	3578	3575	0
Efficiency (%)		89.5	93.6	94.5	95.0	95.0	94.5	
P.F. (%)	8.0	63.5	81.5	87.5	89.5	90.0	90.0	27.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3480	3580	3600
Current (Amps)	724	580	426	110	30.8
Torque (ft-lb)	275	226	513	183	0.00

Information Block

HP	125.0			
Sync. RPM	3600			
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	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	31.0 Lb-Ft ²			
Ref Wdg	HE32802009 NONE			
Sound Pressure @ 1M	87 dbA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS557008			
Conn. Diag	EE7300			
Additional Specifications:				
0				
0				
R1	R2	X1	X2	Xm
0.0380	0.0170	0.2520	0.2910	10.7120



Speed - Torque Curve

