PRODUCT INFORMATION PACKET

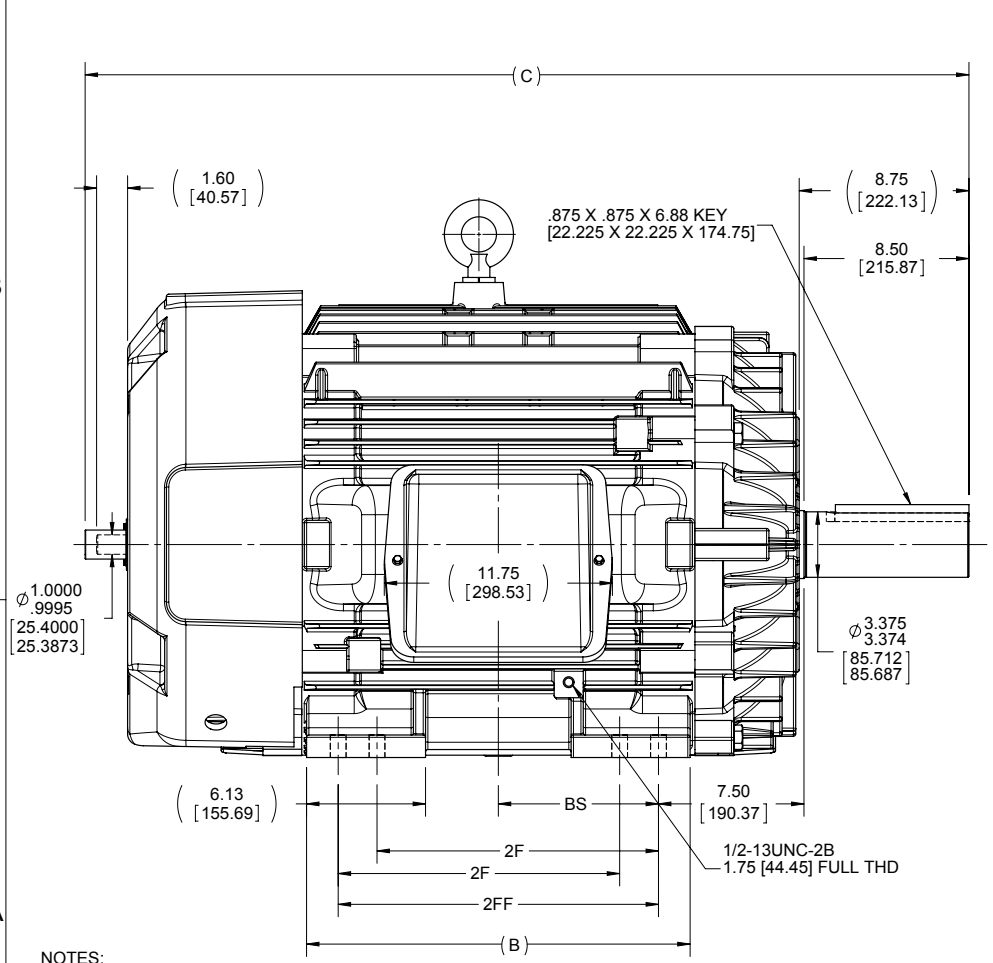
Model No: 444THFN8036
Catalog No: Y576
125,1800,TEFC,444T,3/60/460
2000:1 With Encoder Provision

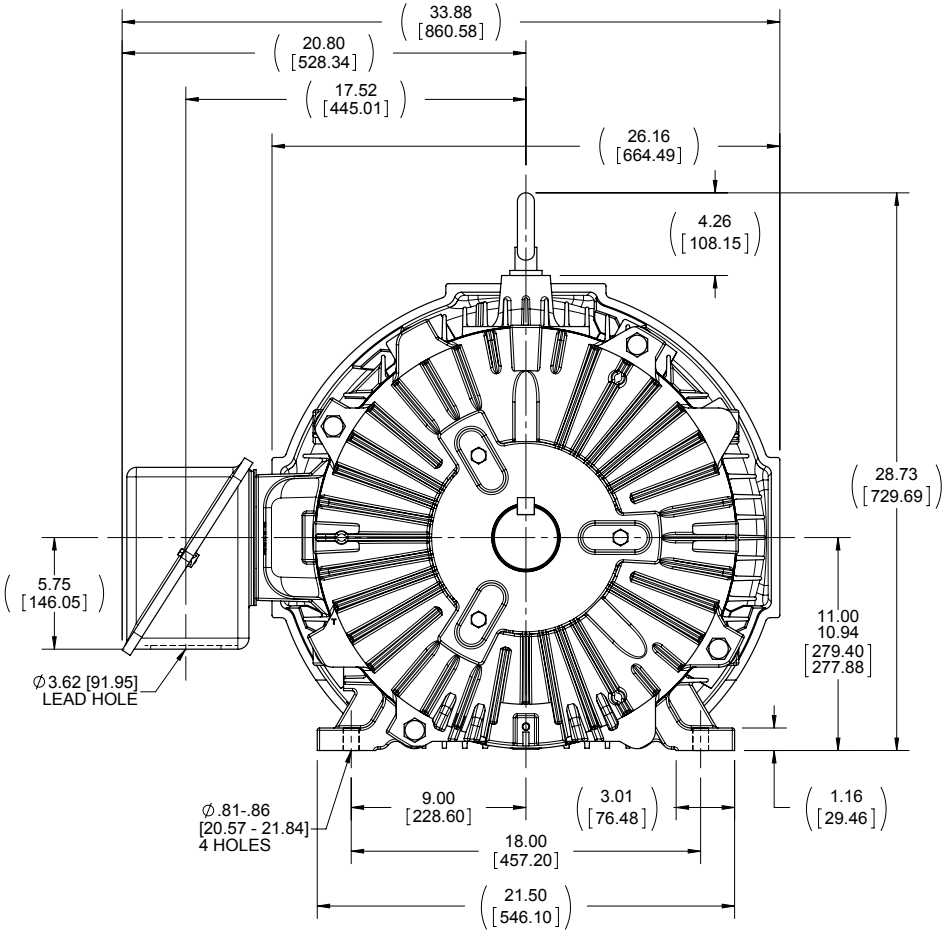
Nameplate Specifications

Output HP	**125 Hp**	Output KW	**93 kW**
Frequency	**60 Hz**	Voltage	**460 V**
Current	**143 A**	Speed	**1788 rpm**
Service Factor	**1**	Phase	**3**
Efficiency	**94.5 %**	Duty	**CONTINUOUS**
Insulation Class	**H**	Design Code	**INV**
KVA Code	**J**	Frame	**444T**
Enclosure	**TEFC**	Overload Protector	**NOT**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6318**
Opp Drive End Bearing Size	**6316**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**		

Technical Specifications

Electrical Type	**SQ CAGE INV DUTY**	Starting Method	**INVERTER ONLY**
Poles	**4**	Rotation	**REV**
Mounting	**RIGID**	Motor Orientation	**HORIZONTAL**
Drive End Bearing	**BALL**	Opp Drive End Bearing	**BALL**
Frame Material	**CAST IRON**	Shaft Type	**T**
Overall Length	**45.54 in**	Frame Length	**20.25 in**
Shaft Diameter	**3.38 in**	Shaft Extension	**8.75 in**
Assembly/Box Mounting	**F1/F2 CAPABLE**		
Outline Drawing	**B-SS555993-2025**	Connection Diagram	**A-EE7300T**





NOTES:
1. CONDUIT BOX CAN BE ROATED IN 90° STEPS.
2. CONDUIT 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	BS	2F	2FF
1825	444T	17.75 [450.85]	43.54 [1105.92]	7.25 [184.15]	14.50 [368.30]	NA
2025	444/445T	19.75 [501.65]	45.54 [1156.72]	8.25 [209.55]	14.50 [368.30]	16.50 [419.10]

DRAWING REVISION	REVISION BY	DATE
B	AJW	09-09-2014
ECO	APPROVED BY	DATE
ECO-0059601	DJK	09-09-2014

ECO DESCRIPTION
UPDATED TO CURRENT STANDARDS

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]
CORNER FILLETS: .02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY	W. JOERGER
DATE	12-02-2013
APPROVED BY	E. HEIL
DATE	12-20-2013
REFERENCE	
THIRD ANGLE PROJECTION	

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
TFN - ENC PROV - 440 FR - TEFC

MATERIAL | PROCESS/FINISH

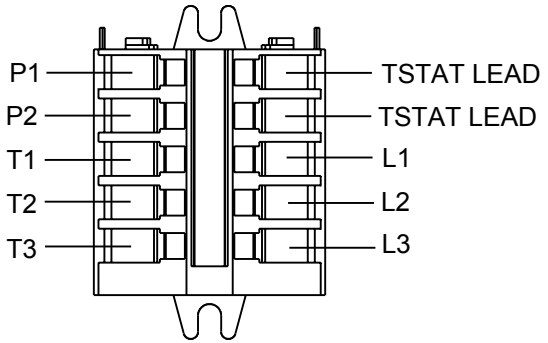
SIZE	DRAWING NUMBER	SHEET
B	SS555993	1 OF 1

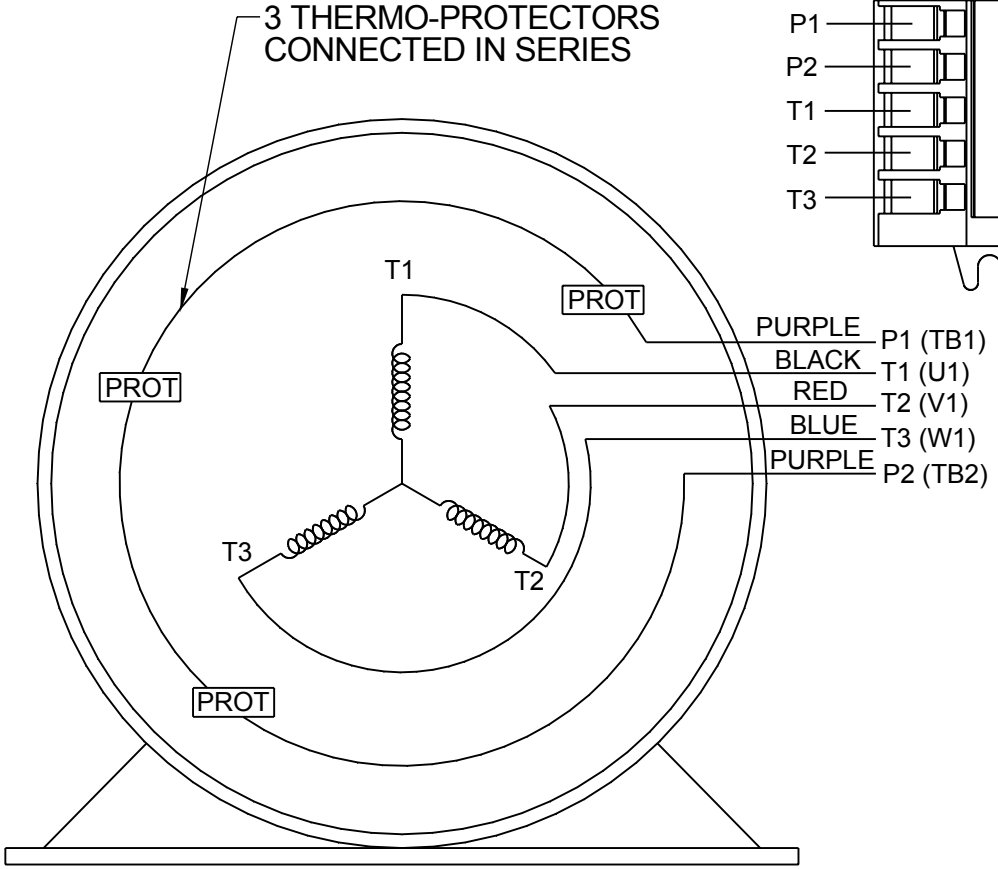
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

NOTE FOR FACTORY USE ONLY:
TO SURGE TEST:
FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1 THEN P2 TO L1
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1

TERMINIAL BLOCK WHEN SPECIFIED

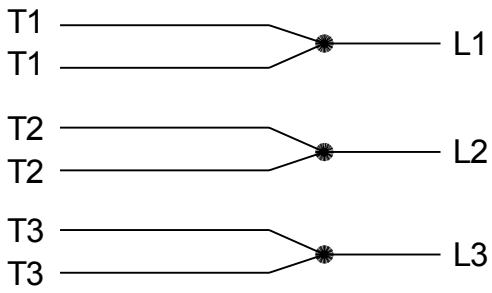




VIEW OF TERMINAL END

T2BM
T6AW
T6AL
T6Z
T4EG
T4BF
T8A
T6H
T6A
T4AX
T4A
T2A
T2F

IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S



A-9806 DECAL

DRAWING REVISION: AB	REVISION BY: AJW	DATE: 07-17-2015		DRAWN BY: LZ	Regal Beloit America, Inc.
ECO: ECO-0081632	APPROVED BY: T.VUE	DATE: 07-17-2015		DATE: 01-04-1994	
ECO DESCRIPTION: REV'D IEC MARKINGS PER IEC-60034-8				APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL
				DATE: 01-20-1994	3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7300T / SHEET: 1 OF 1

CERTIFICATION DATA SHEET

Model#:	444THFN8036 DG	**WINDING#:**	T444489 R7 1
CONN. DIAGRAM:	A-EE7300T	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS555993-2025		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125	93	1800	1788	444T	TEFC	J	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	143	INVERTER ONLY	CONTINUOUS	H1	1.0	40	3300

FULL LOAD EFF: 94.5	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87	3/4 LOAD PF: 84	1/2 LOAD PF: 77	94.1	SQ CAGE INV DUTY	47

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
367 LB-FT	1150	515 LB-FT 140	1175 LB-FT 320	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	47 LB-FT^2	- LB-FT^2	- SEC.	-	1950 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.023608	0.010215	0.202257	0.128482	5.4026

RM	ZREF	XR	TD	TD0
286.02	2.27	8.4	0.0684	1.43

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6318	BALL 6316	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* NOTES *

INVERTER TORQUE: CONSTANT 2000:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: PROVISIONS ONLY
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE

NONE	NONE		
NONE FT-LB		NONE V	NONE Hz

DATE: 06/21/2017 03:30:19 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 15-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

444THFN8036

Submittal

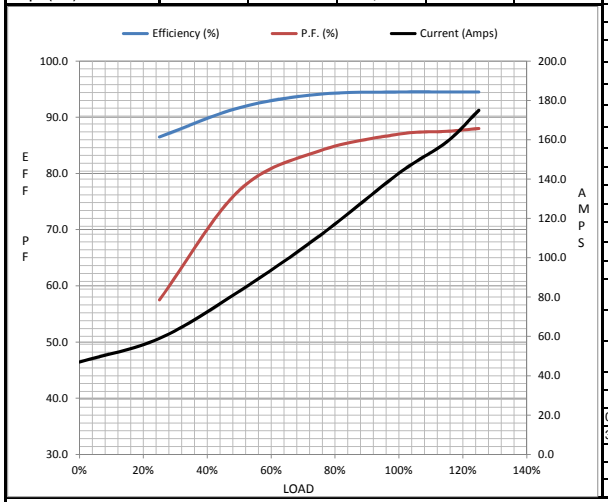
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	47.0	59.0	83.0	111	143	159	175	1,150	
Torque (ft-lb)	0.00	91.5	183	275	367	414	460	515	
RPM	1800	1796	1794	1792	1788	1,787	1786	0	
Efficiency (%)		86.5	91.7	94.1	94.5	94.5	94.5		
P.F. (%)	11.0	57.5	77.0	84.0	87.0	87.5	88.0	23.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1788	1800
Current (Amps)	1,150	1,050	650	143	47.0
Torque (ft-lb)	515	475	1,175	367	0.00



Information Block

HP	125.0
Sync. RPM	1800
Frame	444
Enclosure	TEFC
Construction	TFN
Voltage	460 V
Frequency	60 Hz
Design	A
LR Code letter	J
Service Factor	1.0
Temp Rise @ FL	60 ° C
Duty	SPL
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	47.0 Lb-Ft²
Ref Wdg	T444489 R7
Sound Pressure @ 1M	80 dBA
VFD Rating	CONSTANT 2000:1
Outline Dwg	B-SS555993-2025
Conn. Diag	A-EE7300T

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0240	0.0100	0.2020	0.1280	5.4030

Speed -Torque Curve