PRODUCT INFORMATION PACKET

Model No: 445TTFC6037
Catalog No: GT1152
150 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 445T Frame, TEFC
General Purpose Motors

marathon® Motors

Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	575 V
Current	132.0 A	Speed	1788 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	445T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.03 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	50.79 in
Shaft Diameter	3.375 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS620287-445T	Connection Drawing	A-EE7300

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SS620287

(C)

(8.50)

7/8x7/8x6.88
KEY

(Ø3.375)

(32.19)

(20.24)

(23.90)

(4.14)

(27.14)

(11.00)

(3")NPT
LEAD HOLE

(1.30)

(BS)

(7.50)

(2F)

(2F)

(B)

Ø.81
8 HOLES

(9.00)

(3.35)

(1.35)

(18.00)

(21.5)
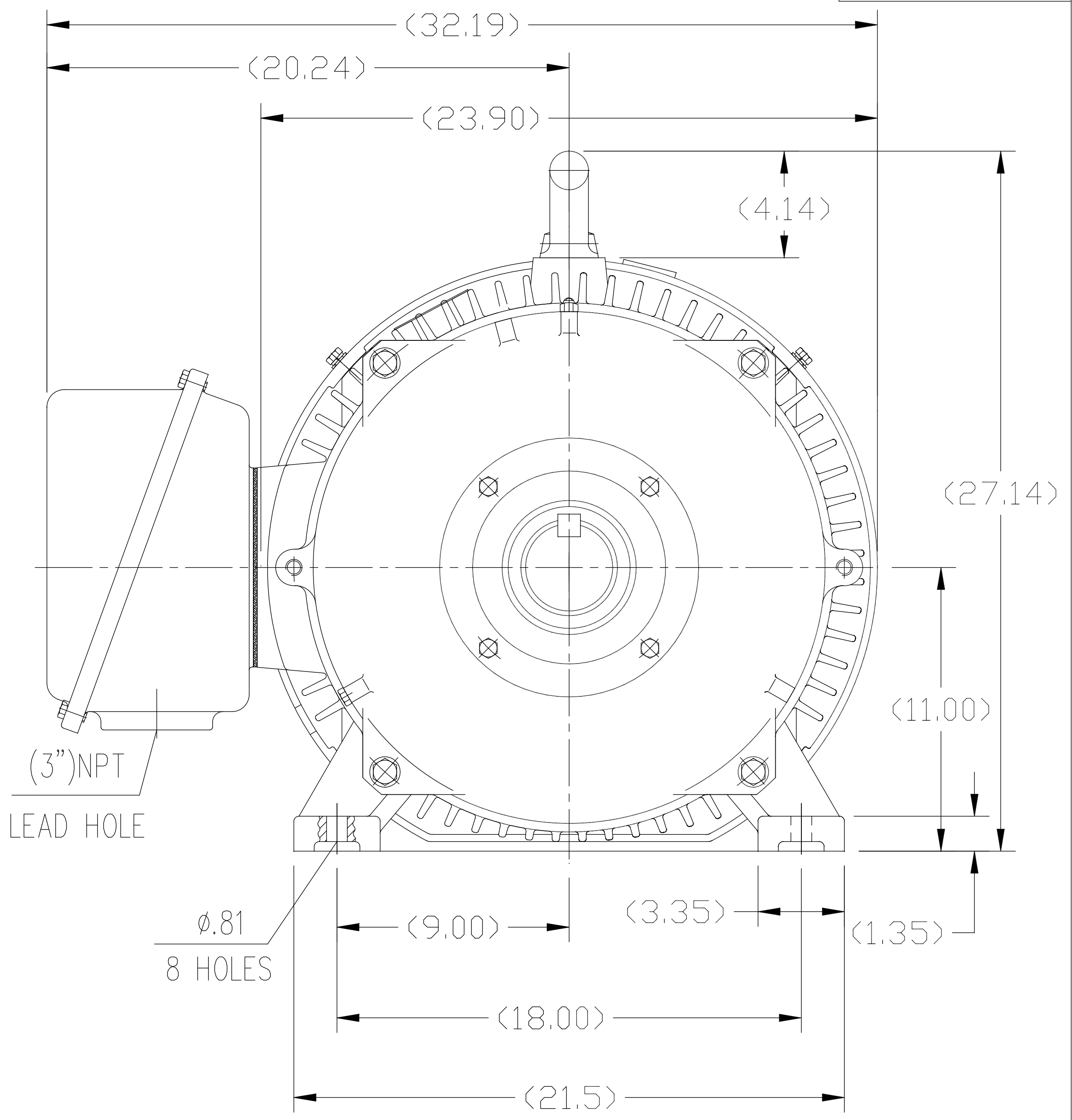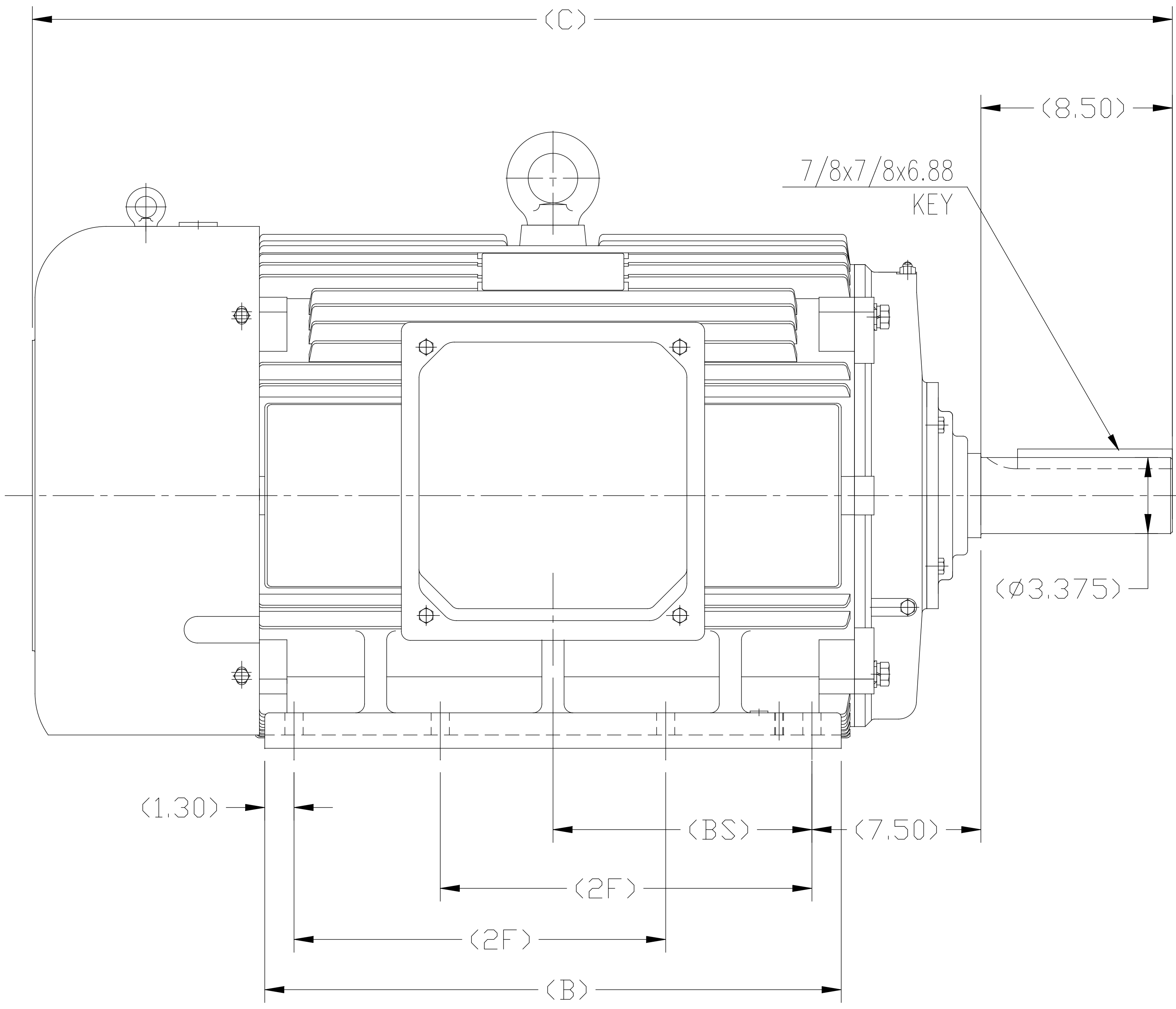
1. THIS MOTOR IS NOT DUAL DRILLED FOR 444T/445T OR 447T/449T
2. THIS MOTOR IS DRILLED FOR F1/F2 CAPABILITY

Frame	C	B	2F	BS
444T	50.79	25.60	14.50	11.50
445T	50.79	25.60	16.50	11.50
447T	55.91	30.70	20.00	14.06
449T	55.91	30.70	25.00	---

	TOLERANCES UNLESS SPECIFIED	
	DEC.	INCHES
	.X	±.1
	.XX	±.03
	.XXX	±.005
	.XXXX	±.0005
	ANG	±1/2°

NO.	REVISION	BY & DATE
F	UPDATED DRAWING PER MARK-UP ECO-0108274	WGJ 7-10-16 EMH
B	ADDED 'BS' DIM. UPDATED TITLE BLOCK ECO-0048910	RFH 4-7-14 EH
A	2 leads hole change to 1	CL 2010-9-8

REGAL   REGAL - BELOIT CORPORATION

TITLE   OUTLINE
444/445/447/449T FR-TEFC-CAST IRON

MAT'L.

FINISH

DRAWN ZYH 02-20-2010
CHK   HZJ 02-20-2010
APPD   CL 02-20-2010
SCALE   1=6
REF
FMF   HWADA
PREV

CHK
RFP
DIST

CAD FILE   SS620287

SIZE B

DRAWING NO.   SS620287   REV. F

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

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED

T1 — L1
T2 — L2
T3 — L3

B

T1

C

T3

T2

A

T1 (U1)
T2 (V1)
T3 (W1)

D

VIEW OF TERMINAL END

IF MOTOR HAS 6 LEADS

T1(U1)
T1(U1) — L1

T2(V1)
T2(V1) — L2

T3(W1)
T3(W1) — L3

A-9806 DECAL

OPTIONAL CORD
CONNECTION

L1 — WHITE

L2 — RED

L3 — BLACK

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017		DRAWN BY DA		
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017		DATE 03-26-1993	REGAL™ Regal Beloit America, Inc.	
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS				APPROVED BY TB	DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR	
				DATE 03-26-1993	REFERENCE	MATERIAL	PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 445TTFC6037 AA   **WINDING#:** CHT44540003 NONE 2

CONN. DIAGRAM: A-EE7300   **ASSEMBLY:** F1/F2 CAPABLE

OUTLINE: B-SS620287

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150	112	1800	1788	445T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	132	ACROSS THE LINE	CONTINUOUS	F7	1.15	40	3300

FULL LOAD EFF: 95.8	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88	3/4 LOAD PF: 87	1/2 LOAD PF: 85	95.4	SQ CAGE IND RUN	30.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
441 LB-FT	840	900 LB-FT 204	1250 LB-FT 282	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	80 LB-FT^2	1000 LB-FT^2	25 SEC.	2	3100 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	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

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INVERTER TORQUE: NONE
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: 06/21/2017 05:46:21 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date:	6/29/2017	445TTFC6037
Customer:		
Attention:		**Submittal**
Submitted by:	FAREEDA DUDEKULA	Data @ **575** V

marathon electric

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	30.4	44.0	69.6	100	132	154	168	840	
Torque (ft-lb)	0.00	110	220	330	441	508	553	900	
RPM	1800	1796	1794	1790	1788	1,786	1784	0	
Efficiency (%)		93.6	95.4	95.8	95.8	95.4	95.0		
P.F. (%)	6.0	68.0	85.0	87.0	88.0	88.0	88.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1788	1800
Current (Amps)	840	760	480	132	30.4
Torque (ft-lb)	900	775	1,250	441	0.00

Information Block

HP	150.0
Sync. RPM	1800
Frame	445
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 wk²	80.0 Lb-Ft²
Ref Wdg	CHT44540003 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	NONE
Outline Dwg	B-SS620287
Conn. Diag	A-EE7300
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0350	0.0180	0.2010	0.4160	10.6020

Chart legend: Efficiency (%), P.F. (%), Current (Amps). X-axis: LOAD (0% to 140%). Left Y-axis: EFF / PF (30.0 to 100.0). Right Y-axis: AMPS (0.0 to 180.0).

Speed -Torque Curve

Chart legend: Torque, Amps. X-axis: RPM (0 to 2000). Left Y-axis: TORQUE (0.0 to 1400.0). Right Y-axis: AMPS (0.0 to 900.0).