PRODUCT INFORMATION PACKET

Model No: 284TTFCA6080
Catalog No: GT1123
15 HP General Purpose Motor, 3 phase, 1200 RPM, 575 V, 284T Frame, TEFC
General Purpose Motors

marathon® Motors

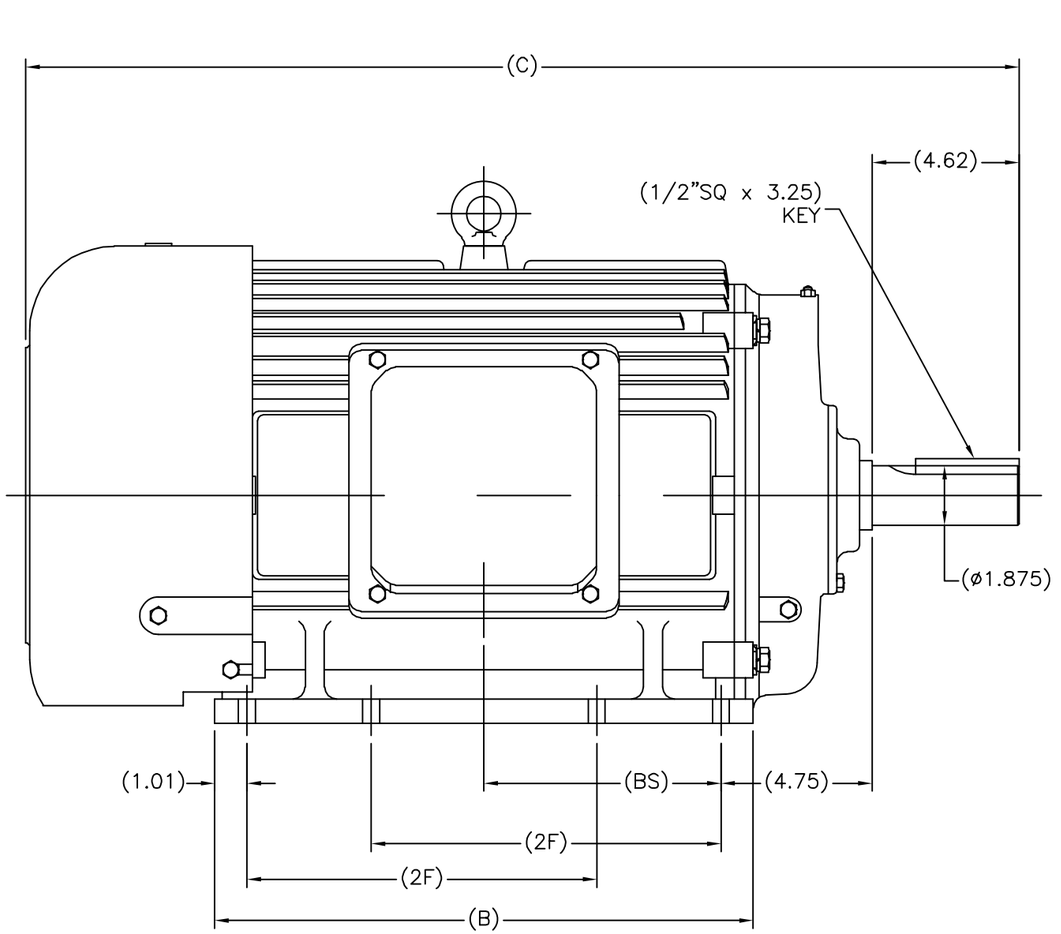
Nameplate Specifications

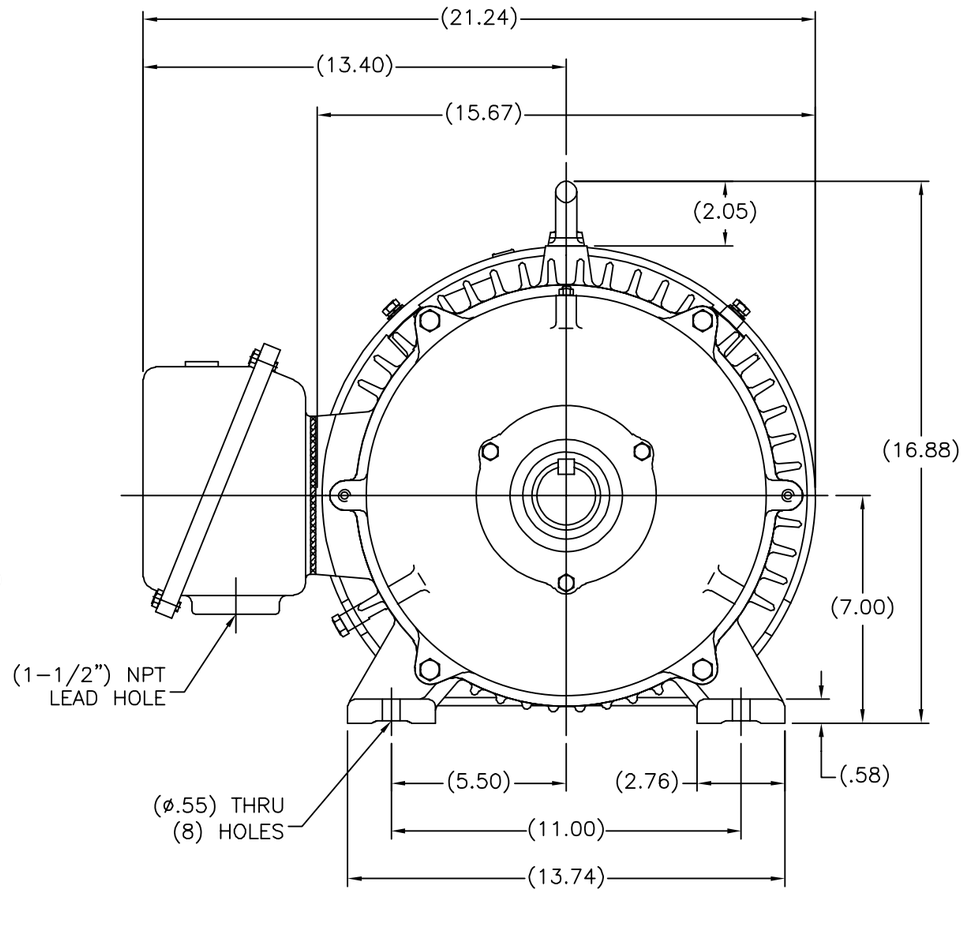
Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	575 V
Current	15.9 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	76
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	284T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
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	6	Rotation	Reversible
Resistance Main	.60916 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	30.16 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS620245-284T	Connection Drawing	A-EE7300

SS620245





(MAY NOT BE DRAWN TO SCALE)

(DIMENSIONS IN TABLE ARE CONSIDERED REFFERENCE)

284T	30.16	15.75	9.50	6.86
286T	31.34	16.93	11.00	7.45
FRAME	C	B	2F	BS

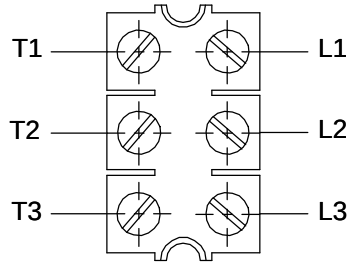
				TOLERANCES UNLESS SPECIFIED		REGAL REGAL - BELOIT CORPORATION	DRAWN MSG 01–12–2010	
				DEC.	INCHES		CHK MJS 01–13–2010	
				.X	±.1		APPD SB 01–13–2010	
				.XX	±.03	TITLE OUTLINE	SCALE 1=4	
				.XXX	±.005	280T FR. – TEFC	REF	
1	ADDED 'BS' DIM. UPDATED TITLE BLOCK ECO–0048910	RFH 04/07/2014	EH	.XXXX	±.0005	MAT'L.	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV	

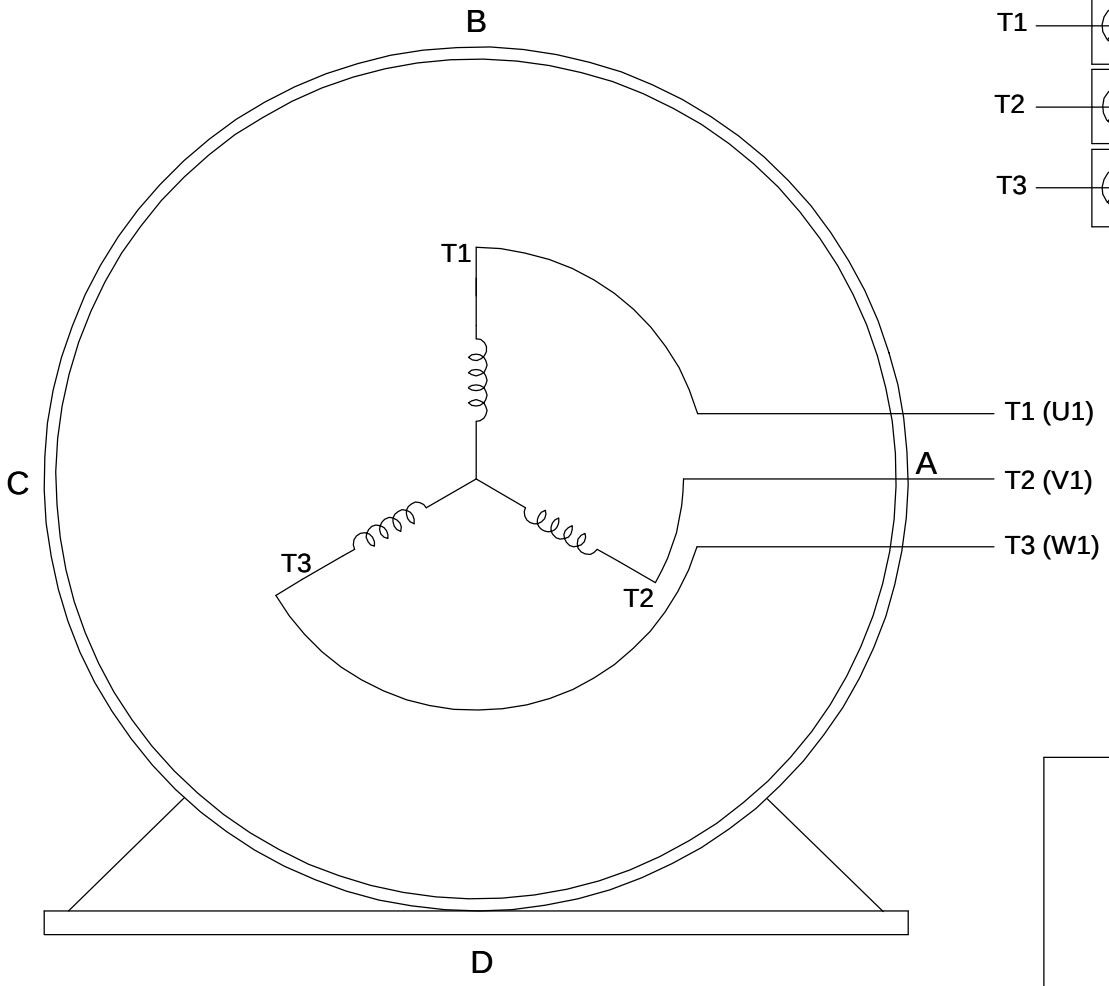
RFP 01–14–2010	CAD FILE SS620245	SIZE	DRAWING NO. PAGE OF	REV.
DIST		B	SS620245	1

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

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

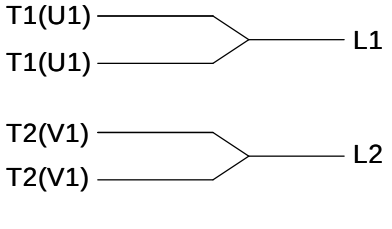
TERMINAL BLOCK WHEN SPECIFIED





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		

DRAWN BY: DA	REGAL™ Regal Beloit America, Inc.
DATE: 03-26-1993	
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#:	284TTFCA6080 AA	**WINDING#:**	CHT28460001 NONE 3
CONN. DIAGRAM:	A-EE7300	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS620245		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15	11.2	1200	1185	284T	TEFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	15.9	ACROSS THE LINE	CONTINUOUS	F7	1.15/1.15	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76	3/4 LOAD PF: 73	1/2 LOAD PF: 62	90.2	SQ CAGE IND RUN	8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
66.5 LB-FT	88	124 LB-FT 185	200 LB-FT 300	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	5.5 LB-FT^2	- LB-FT^2	20 SEC.	2	- 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 6311	BALL 6210	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	CAST IRON

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

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

*
NOTES
*

DATE: 06/27/2017 01:05:33 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

284TTFCA6080

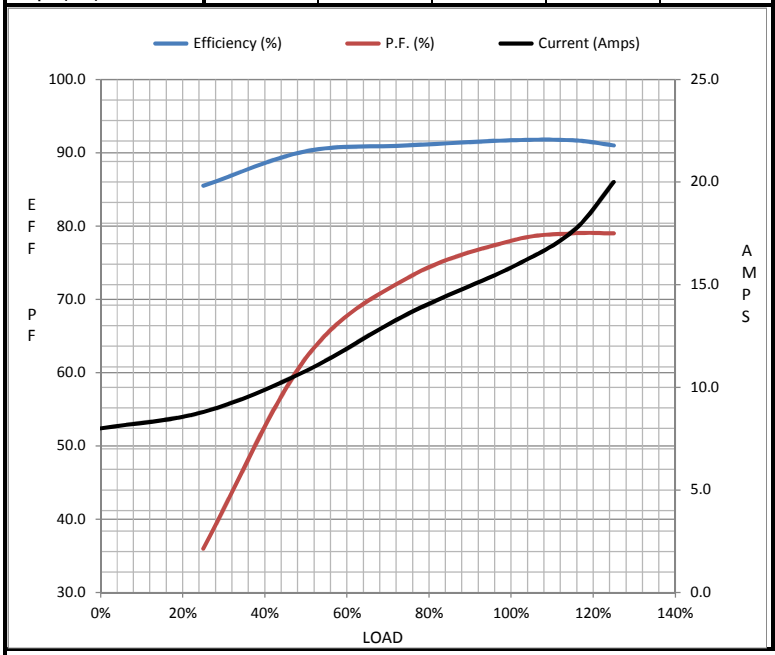
Submittal
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	8.0	8.8	10.8	13.6	15.8	17.6	20.0	88.0	
Torque (ft-lb)	0.00	16.5	33.0	48.0	66.5	76.8	83.5	124	
RPM	1200	1195	1192	1188	1185	1,180	1180	0	
Efficiency (%)		85.5	90.2	91.0	91.7	91.7	91.0		
P.F. (%)	5.0	36.0	62.0	73.0	78.0	79.0	79.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1100	1185	1200
Current (Amps)	88.0	80.0	57.6	15.8	8.0
Torque (ft-lb)	124	110	200	66.5	0.00



Information Block

HP	15.0	
Sync. RPM	1200	
Frame	284	
Enclosure	TEFC	
Construction	TFC	
Voltage	575	V
Frequency	60	Hz
Design	B	
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	5.5	Lb-Ft²
Ref Wdg	CHT28460001	NONE
Sound Pressure @ 1M	56	dBA
VFD Rating	NONE	
Outline Dwg	B-SS620245	
Conn. Diag	A-EE7300	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.6260	0.3220	1.6870	3.5510	40.9970

Speed -Torque Curve