

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 256TTFCA6030

Catalog No: GT1125

20 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 256T Frame, TEFC  
General Purpose Motors



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**RegalRexnord**

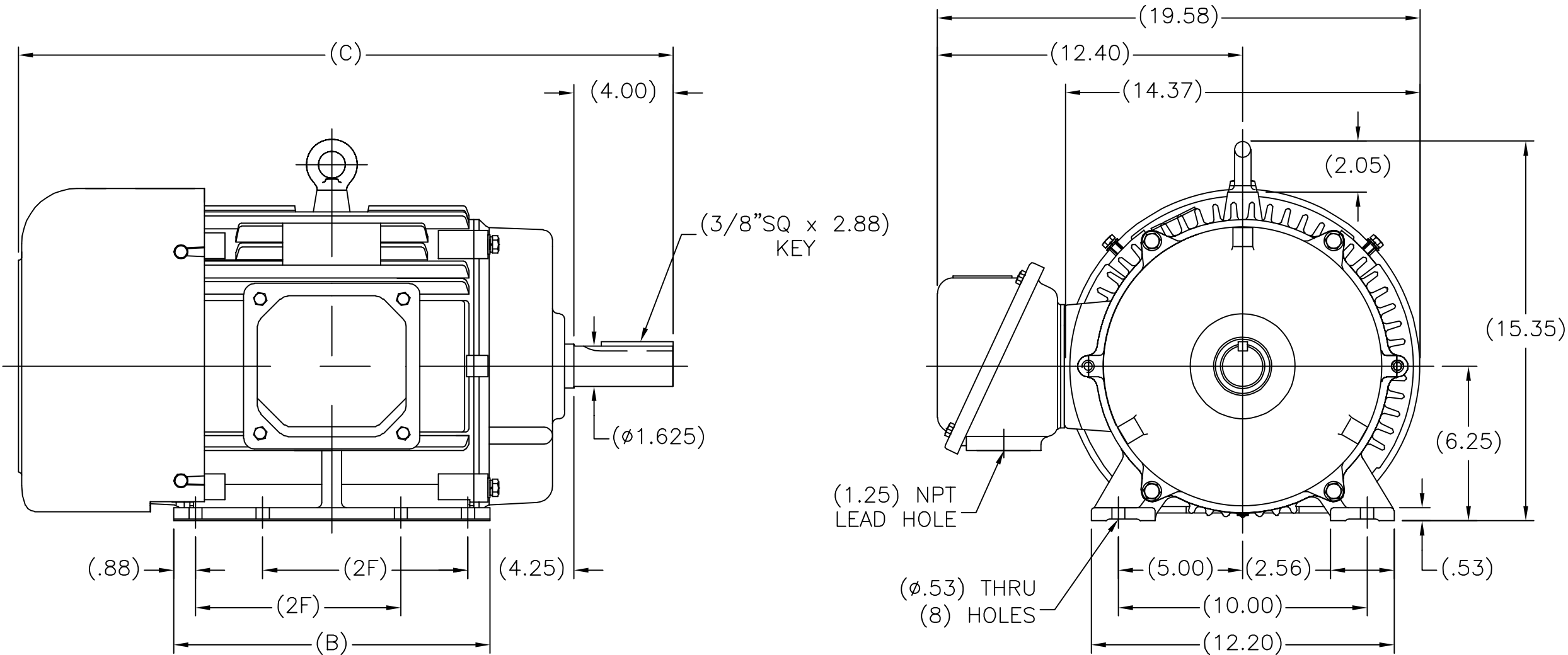
### Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	575 V
Current	19.4 A	Speed	1773 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	83.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	256T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	.353 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	27.80 in
Shaft Diameter	1.625 in	Shaft Extension	4 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	A-EE7300	Outline Drawing	SS620244-256T


SS620244



(MAY NOT BE DRAWN TO SCALE)

(DIMENSIONS IN TABLE ARE CONSIDERED REFERENCE)

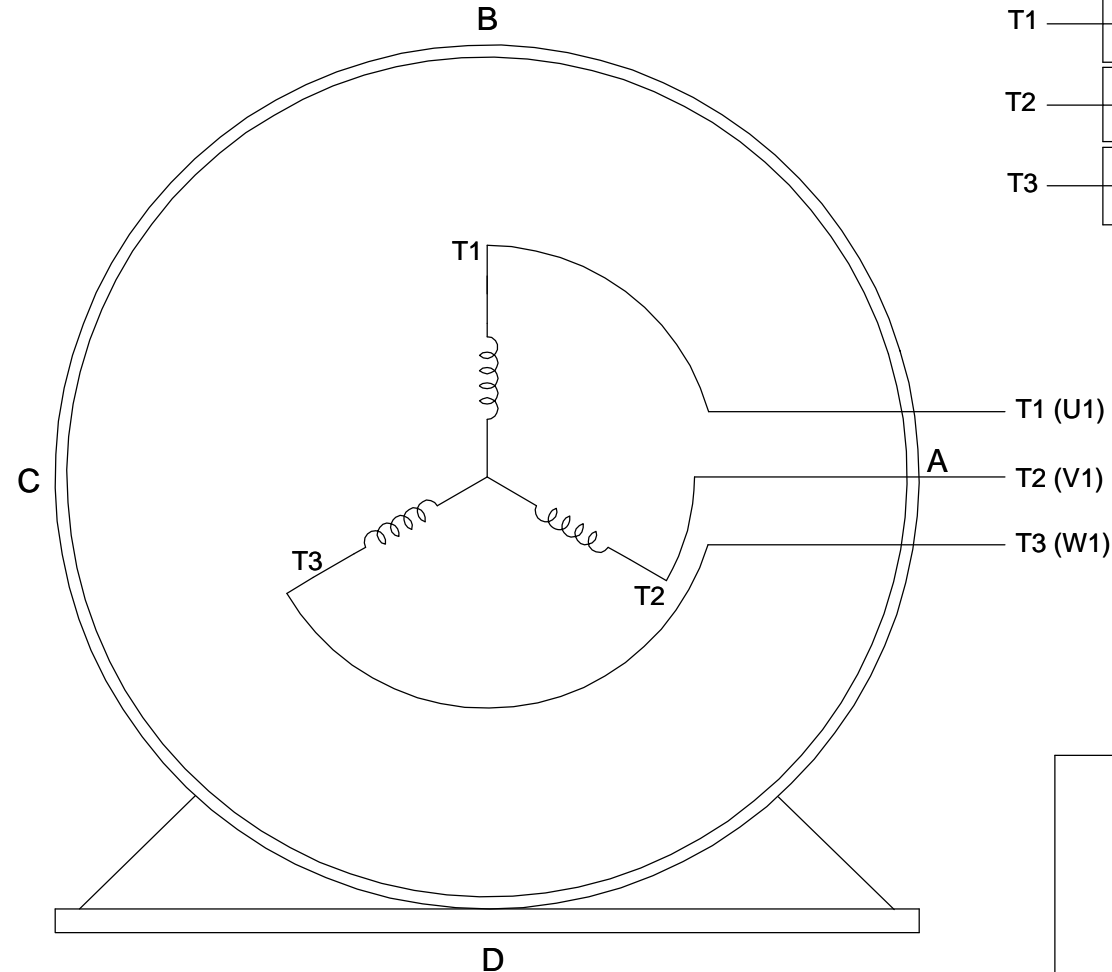
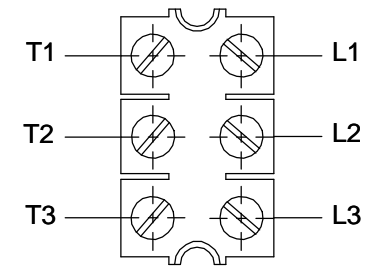
254T	26.60	12.80	8.25
256T	27.80	13.98	10.00
FRAME	C	B	2F

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN MSG 01-12-2010			
				DEC.	INCHES		CHK MJS 01-13-2010			
				.X	±.1		APPD SB 01-13-2010			
				.XX	±.03		SCALE 1=4			
				.XXX	±.005	TITLE OUTLINE 254T FR. — TEFC			REF	
D	CHANGED BORDER LOGO TO "REGAL"	ECO-0075536	WGJ 04-09-2015	EH	.XXXX ±.0005	MAT'L.			FMF HUADA	
NO.	REVISION		BY & DATE	CHK	ANG	±7'30"			PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE THIS PRINT				RFP	01-14-2010	CAD FILE SS620244		SIZE	DRAWING NO. PAGE OF	REV.
				DIST				B	SS620244	

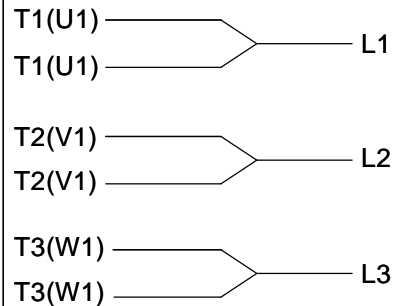
# THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

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
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## CERTIFICATION DATA SHEET

Model#: 256TTFCA6030 BB

WINDING#: CHT25640005 NONE 2

CONN. DIAGRAM: A-EE7300

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620244

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20	14.9	1800	1773	256T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	19.4	ACROSS THE LINE	CONTINUOUS	F7	1.15/1.15	40	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83.5	3/4 LOAD PF: 79	1/2 LOAD PF: 69	92.4	SQ CAGE IND RUN	7.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.5 LB-FT	112	104 LB-FT 175	156 LB-FT 262	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	4 LB-FT^2	125 LB-FT^2	20 SEC.	2	455 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						
6309	6209	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			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

\*  
N  
O  
T  
E  
S  
\*

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

DATE: 06/21/2017 09:45:53 AM

FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.

## Data Sheet

Date: 6/29/2017

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



256TTFCA6030

Submittal

Data @ 575 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.8	9.0	12.0	15.4	19.2	21.6	23.8	112	
Torque (ft-lb)	0.00	15.0	29.5	44.5	59.5	68.5	75.0	104	
RPM	1800	1792	1787	1780	1770	1,765	1760	0	
Efficiency (%)		86.5	91.7	93.0	93.0	92.4	92.4		
P.F. (%)	5.0	46.5	69.0	79.0	83.0	84.0	85.5	39.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block														
Speed (RPM)	0	900	1700	1770	1800	HP	20.0													
Current (Amps)	112	104	74.4	19.2	7.8	Sync. RPM	1800													
Torque (ft-lb)	104	88.0	156	59.5	0.00	Frame	256													
<div><div>— Efficiency (%) — P.F. (%) — Current (Amps)</div><div>EFFICIENCY (%)</div><div>P.F. (%)</div><div>CURRENT (AMPS)</div></div> <table><tr><th>R1</th><th>R2</th><th>X1</th><th>X2</th><th>Xm</th></tr><tr><td>0.3620</td><td>0.2820</td><td>1.1760</td><td>2.1520</td><td>42.1560</td></tr></table>						R1	R2	X1	X2	Xm	0.3620	0.2820	1.1760	2.1520	42.1560	Enclosure	TEFC			
						R1	R2	X1	X2	Xm										
						0.3620	0.2820	1.1760	2.1520	42.1560										
						Construction	TFC													
						Voltage	575 V													
						Frequency	60 Hz													
						Design	B													
						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 <sup>2</sup>	4.0 Lb-Ft <sup>2</sup>													
						Ref Wdg	CHT25640005 NONE													
						Sound Pressure @ 1M	65 dBA													
						VFD Rating	NONE													
Outline Dwg	SS620244																			
Conn. Diag	A-EE7300																			
Additional Specifications:																				
0																				
0																				
EQUIV CKT (OHMS / PHASE)																				
R1	R2	X1	X2	Xm																
0.3620	0.2820	1.1760	2.1520	42.1560																

## Speed -Torque Curve

