

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 184TTFB6032

Catalog No: GT1413

5 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 184TC Frame, TEFC  
General Purpose Motors



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**RegalRexnord**

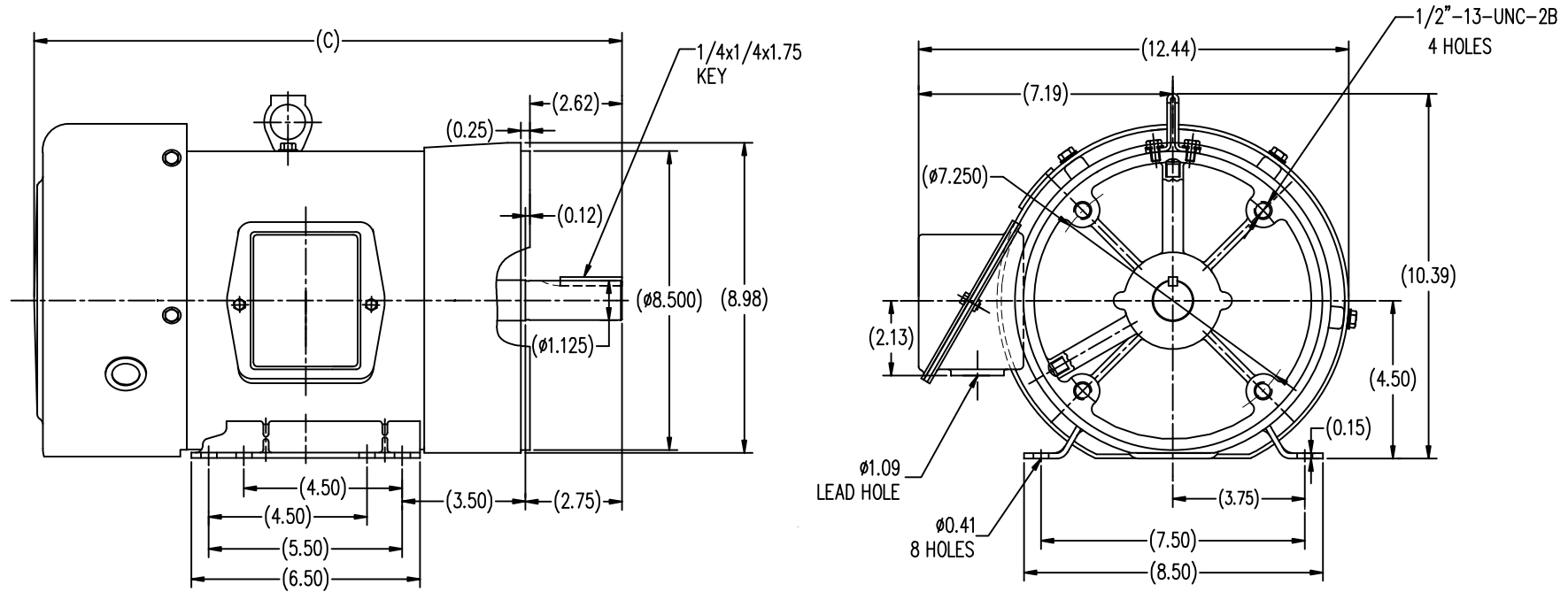
**Nameplate Specifications**

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	575 V
Current	5.0 A	Speed	1758 rpm
Service Factor	1.15	Phase	3
Efficiency	90.2 %	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	184TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

**Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	2.2 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	16.73 in
Shaft Diameter	1.125 in	Shaft Extension	2.62 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	EE7300	Outline Drawing	SS620296-184TC

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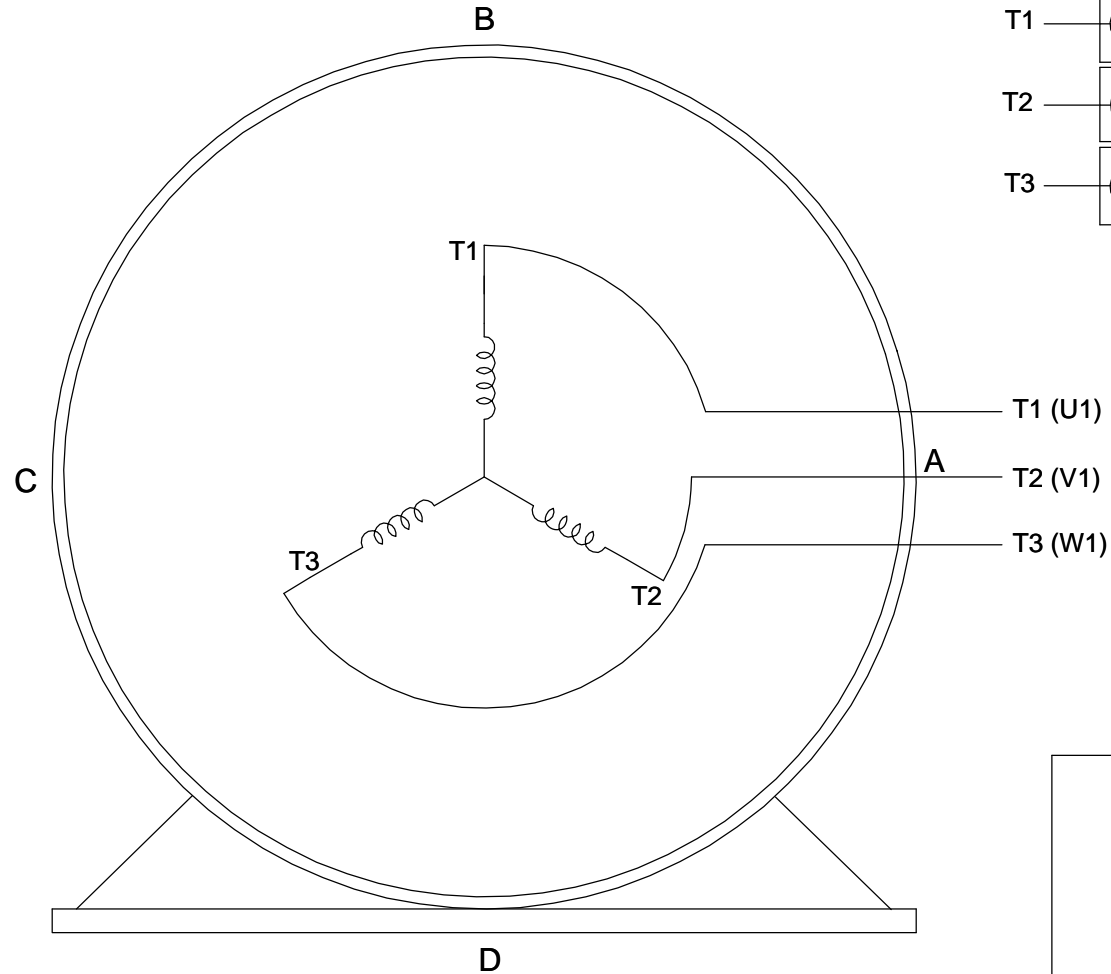
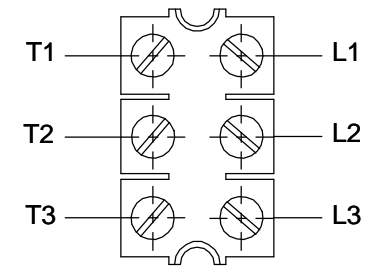
TTFB 182TC	15.75
TTFB 184TC	16.73
FRAME	C

TOLERANCES UNLESS SPECIFIED		DRAWN		SY 4-19-2010	
DEC.	INCHES	CHK	ZYH	4-19-2010	
.X	±.1	APPD	CL	4-19-2010	
.XX	±.03	SCALE	1=4		
.XXX	±.005	REF			
.XXXX	±.0005	FMF	HWADA		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2
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	CAD FILE	SS620296	SIZE
		DIST			B
					DRAWING NO.
					SS620296
					REV.

# 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#: 184TTFB6032 AA  
 CONN. DIAGRAM: EE7300  
 OUTLINE: SS620296

WINDING#: CHT18440001 NONE 3  
 ASSEMBLY: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.70	1800	1758	184TC	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	5	LINE OR INVERTER	CONTINUOUS	F7	1.15	40	3300

FULL LOAD EFF: 90.2	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 89.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82.5	3/4 LOAD PF: 78	1/2 LOAD PF: 68	88.5	SQ CAGE INV RATED	2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15 LB-FT	44.8	38 LB-FT 252	57 LB-FT 380	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.5 LB-FT^2	30 LB-FT^2	20 SEC.	2	110 LBS.

## \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	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						
6206	6205	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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: CONSTANT 10:1  
 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: 06/28/2017 06:54:58 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

Date: 6/19/2017

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

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

Submitted by: FAREEDA DUDEKULA



184TTFB6032

Submittal

Data @ 575 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.00	2.32	3.0	3.9	5.0	5.8	6.2	44.8	
Torque (ft-lb)	0.00	3.7	7.4	11.2	15.0	17.5	19.0	38.0	
RPM	1800	1790	1780	1771	1758	1,750	1745	0	
Efficiency (%)		86.5	89.5	90.2	90.2	89.5	89.5		
P.F. (%)	5.5	46.0	68.0	78.0	82.5	84.0	85.0	46.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	750	1450	1758	1800																													
Current (Amps)	44.8	40.0	28.8	5.0	2.00																													
Torque (ft-lb)	38.0	32.0	57.0	15.0	0.00																													
<div><div><div>Efficiency (%)</div><div>P.F. (%)</div><div>Current (Amps)</div></div><table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25%</td><td>86.5</td><td>1.6</td><td>2.0</td></tr><tr><td>50%</td><td>89.5</td><td>4.0</td><td>3.5</td></tr><tr><td>75%</td><td>90.0</td><td>5.2</td><td>4.8</td></tr><tr><td>100%</td><td>90.0</td><td>5.8</td><td>5.8</td></tr><tr><td>125%</td><td>89.5</td><td>6.2</td><td>6.5</td></tr></tbody></table></div>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	25%	86.5	1.6	2.0	50%	89.5	4.0	3.5	75%	90.0	5.2	4.8	100%	90.0	5.8	5.8	125%	89.5	6.2	6.5					
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						HP		5.0																										
						Sync. RPM		1800																										
						Frame		184																										
						Enclosure		TEFC																										
						Construction		TFC																										
						Voltage		575 V																										
						Frequency		60 Hz																										
						Design		A																										
						LR Code letter		K																										
						Service Factor		1.15																										
						Temp Rise @ FL		45 ° C																										
						Duty		CONT																										
						Ambient		40 ° C																										
						Elevation		1,000 feet																										
						Rotor/Shaft wk²		0.50 Lb-Ft²																										
						Ref Wdg		CHT18440001 NONE																										
Sound Pressure @ 1M		62 dBA																																
VFD Rating		CONSTANT 10:1																																
Outline Dwg		SS620296																																
Conn. Diag		EE7300																																
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
2.0380	2.3030	5.9800	6.3080	166.9990																														

## Speed -Torque Curve

