

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 184TTFN16056

Catalog No: E202-P

5,1800,TEFC,184T,3/60/208-230/460

Totally Enclosed Fan Cooled (TEFC)



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REGAL

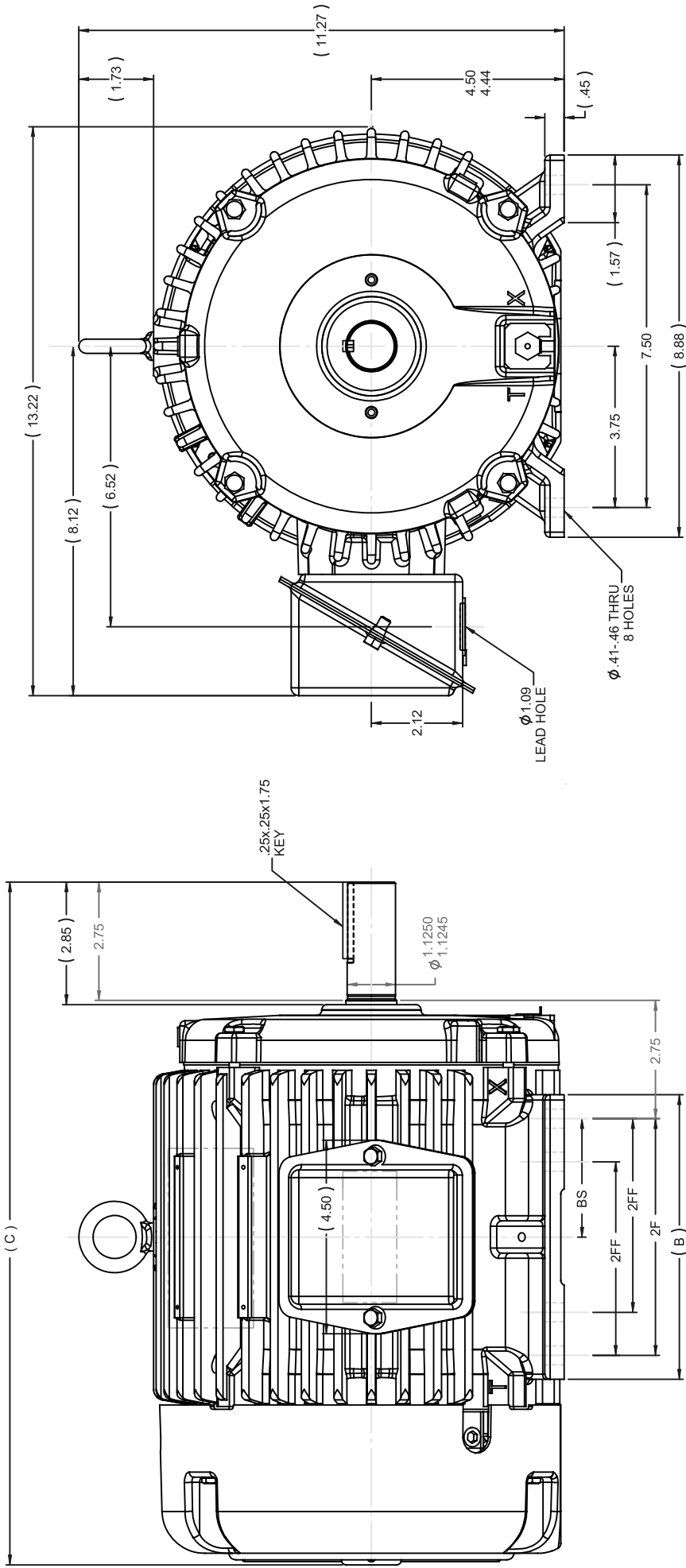


Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	12.4/6.2 A	Speed	1755 rpm
Service Factor	1.15	Phase	3
Efficiency	90.2 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	J	Frame	184T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6206
Opp Drive End Bearing Size	6206	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	17.87 in	Frame Length	10.00 in
Shaft Diameter	1.125 in	Shaft Extension	2.85 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	035662-1000	Connection Diagram	EE7308



- NOTES:
 1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 2. CONDUIT BOX CAN ROTATED IN 90° STEPS.
 3. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°

1000	182/184	17.87	8.61	7.50	5.50	3.75
800	182/184	15.87	6.61	5.50	4.50	2.75
DASH	FRAME	C	B	2F	2FF	BS

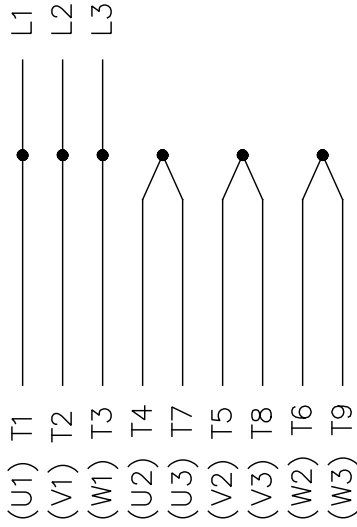


UNITS SPECIFIED	DEC INCHES	XX ±.03	XXX ±.005	VV XXXX ±.0005	CHK LANG	BY & DATE	ST 05-15-2009	REVISION	NO.	01
UNITS SCALE	X ±.1					ST 05-15-2009	REPLACED C I LEAN GRD. WITH NEW PLASTIC FAN GRD.	REPLACED C I LEAN GRD. WITH NEW PLASTIC FAN GRD.		
TITLE	OUTLINE - TEFC									
SCALE	7:16									
APPR	SW 3/26/2008									
CHK	ML 3/26/2008									
DRAWN	TJW 3/25/2008									
CAD FILE	035662									
SIZE	B									
DRAWING NO	035662									
REV	01									

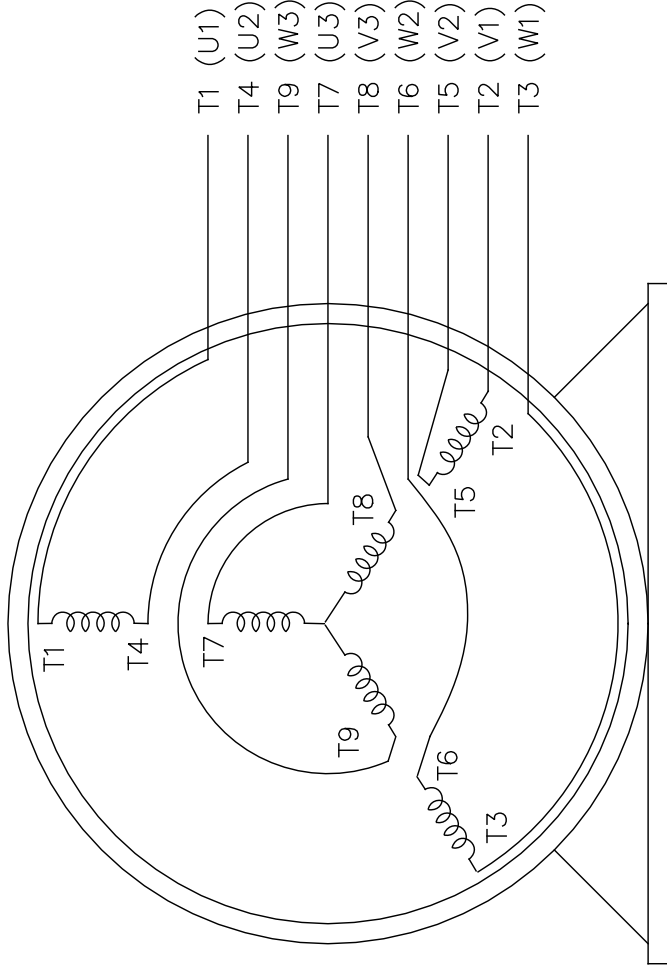
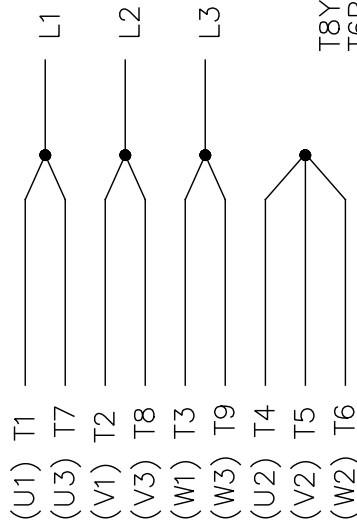
THREE PHASE
DUAL VOLTAGE MOTOR

EE7308

HIGH VOLTAGE



LOW VOLTAGE



VIEW OF TERMINAL END

OPTIONAL CORD
CONNECTION

- L1 — WHITE
- L2 — RED
- L3 — BLACK

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

CHG TO REGAL LOGO		SL	09/10/2015	AB	TOLERANCES UNLESS SPECIFIED		DRAWN RM 11/20/1990	
REVISED IEC NOTATIONS		MSG	11/15/2011	CMN.X	INCHES		CHK	ML 11/21/1990
ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194		MSG	5/10/2010	MJS.XX	±.1		APPD	SAS 04/24/2003
ADDED THE OPTIONAL CORD CONNECTION MU46318		RDH	04/24/2003	DRS.XXX	±.02		SCALE	1=1
REDRAWN		RM	11/20/1990	.XXXX ±.0005	±.005		REF	
REVISION		BY & DATE		CHK	ANG		FMF	
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		DIST		WP		PREV
SIZE		DRAWING NO.		PAGE		OF		REV.
A		EE7308		5		5		



Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3φ - DUAL VOLTAGE MOTOR

MAT'L
FINISH

CERTIFICATION DATA SHEET

Model#: 184TTFN16056 AA **WINDING#:** K1844215 NONE 1
CONN. DIAGRAM: EE7308 **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: 035662-1000

TYPICAL MOTOR PERFORMANCE DATA

HP	5&3	KW	3.70&2.24	SYNC. RPM	1800	F.L. RPM	1755&1465	FRAME	184T	ENCLOSURE	TEFC	KVA CODE	J	DESIGN	B				
PH	3	HZ	60/50	VOLTS	230/460/190/380	FL AMPS	12.4/6.2&9.6/4.8	START TYPE	LINE OR INVERTER	DUTY	CONTINUOUS	INSL	F3	S.F	1.15/1.15	AMB°C	40	ELEVATION	3300
FULL LOAD EFF:	90.2&90.2	3/4 LOAD EFF:	90.2	1/2 LOAD EFF:	90.2	GTD. EFF		ELEC. TYPE		NO LOAD AMPS									
FULL LOAD PF:	83.5&79	3/4 LOAD PF:	78.5	1/2 LOAD PF:	70		89.5	SQ CAGE INV/RATED		5.6 / 2.8									
F.L. TORQUE	15 LB-FT	LOCKED ROTOR AMPS	92 / 46	L.R. TORQUE	34.5 LB-FT 230	B.D. TORQUE	45 LB-FT 300	F.L. RISE°C		50									
SOUND PRESSURE @ 3 FT.	62 dBA	SOUND POWER	72 dBA	ROTOR WK*2	0.5 LB-FT*2	MAX. WK*2	50 LB-FT*2	SAFE STALL TIME	25 SEC.	STARTS / HOUR	2	APPROX. MOTOR WGT	130 LBS.						

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	STANDARD	ODE BRACKET TYPE	STANDARD	MOUNT TYPE	RIGID	ORIENTATION	HORIZONTAL	SEVERE DUTY	FALSE	HAZARDOUS LOCATION	NONE	DRIP COVER	FALSE	SCREENS	NONE	PAINT	BLUE (ENAMEL)
BEARINGS DE	BALL 6206	OPE	BALL 6206	GREASE	POLYREX EM	SHAFT TYPE	T	SPECIAL DE	NONE	SPECIAL ODE	NONE	SHAFT MATERIAL	1144 STRESSPROOF (C-223)	FRAME MATERIAL	CAST IRON		
THERMOSTATS	NONE	PROTECTORS	NOT	WDM RTDs	NONE	BRG RTDs	NONE	CONTROL	FALSE	SPACE IN HEATERS	NONE VOLTS						

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE:	CONSTANT 20:1
INV. HP SPEED RANGE:	NONE
ENCODER:	NONE
NONE:	NONE
NONE:	NONE PPR
BRAKE:	NONE
NONE:	PIN NONE
NONE:	NONE
NONE FT-LB:	NONE V
NONE HZ:	NONE HZ

* N O T E S *

Data Sheet

Date: 6/29/2017

184TTFN16056

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

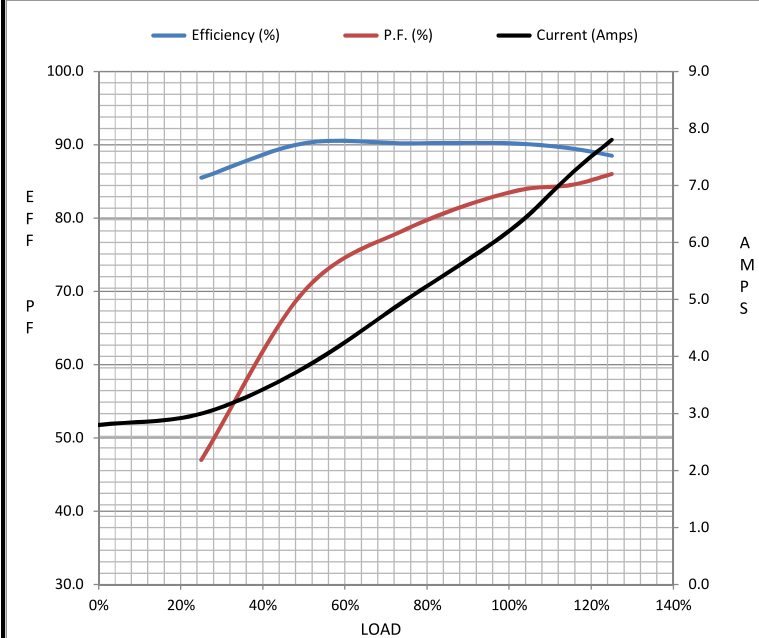
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.80	3.0	3.8	5.0	6.2	7.2	7.8	46.0
Torque (ft-lb)	0.00	3.7	7.4	11.5	15.0	17.5	19.0	34.5
RPM	1800	1790	1780	1765	1755	1,745	1740	0
Efficiency (%)		85.5	90.2	90.2	90.2	89.5	88.5	
P.F. (%)	6.5	47.0	70.0	78.5	83.5	84.5	86.0	48.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1755	1800
Current (Amps)	46.0	41.0	25.0	6.2	2.80
Torque (ft-lb)	34.5	31.0	45.0	15.0	0.00

Information Block

HP	5.0			
Sync. RPM	1800			
Frame	184			
Enclosure	TEFC			
Construction	TFN			
Voltage	3-230/460#190/V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.50 Lb-Ft ²			
Ref Wdg	K1844215 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	035662-1000			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.5080	1.1280	3.6910	5.6930	104.3280



Speed - Torque Curve

