

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 184TTGN6526
Catalog No: U005A
5,1800,EPFC,184T,3/60/230/460
Explosion Proof



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REGAL



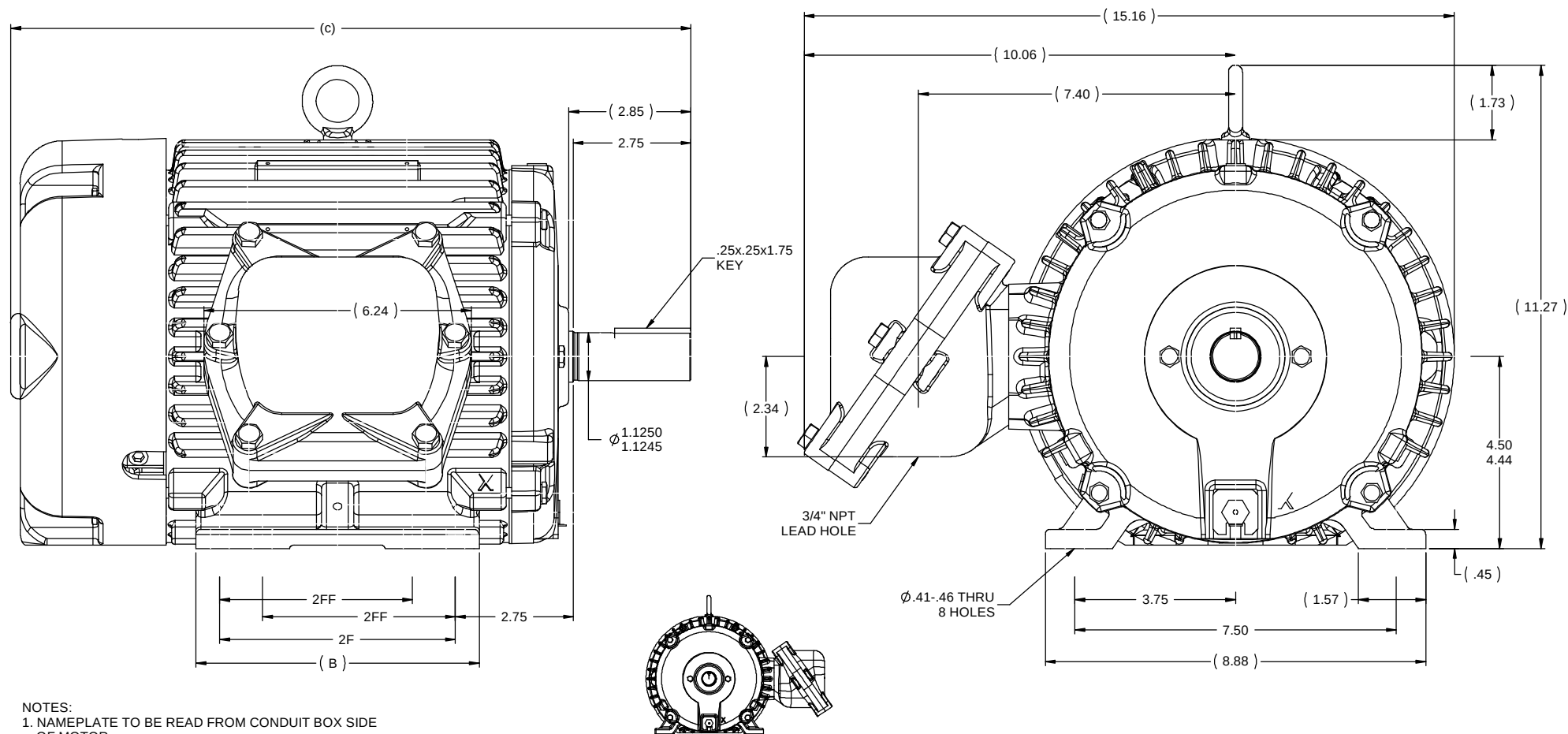
Nameplate Specifications

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	EPFC	Overload Protector	NOT
Ambient Temperature	40 °C	Drive End Bearing Size	6206
Opp Drive End Bearing Size	6206	UL	No
CSA	N	CE	N
IP Code	54		

Technical Specifications

Electrical Type	SQ CAGE INV RATED	Starting Method	LINE OR INVERTER
Poles	4	Rotation	REV
Mounting	RIGID	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 in
Shaft Diameter	1.13 in	Shaft Extension	2.85 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	035660-1000	Connection Diagram	A-EE7308T

035660



NOTES:

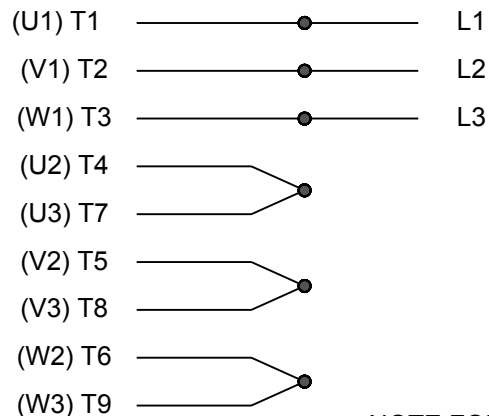
1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
2. CONDUIT BOX CAN ROTATED IN 90 ° STEPS.
3. CONDUIT BOX CAN MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ. TITLED "MOTORS AND GENERATORS REBUILT FOR USE IN HAZARDOUS LOCATIONS."

F2 LOCATION →

1000	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

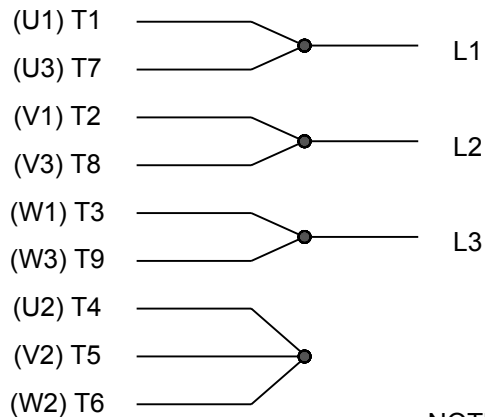
				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN CTO 07-05-2007	
				DEC	INCHES		CHK	ML 3/26/2008
3	ADDED F2 VIEW.	ST 11/04/2011	AK	.XX	±.03	TITLE OUTLINE - EPFC 180 FR.	APPR	SW 3/26/2008
2	CHANGED 1000 FRAME FROM 182/184 TO 184 ISAAC 11-2933	KBB 6/28/2011	EH	.XXX	±.005		SCALE	7:16
1	CHGD 1000 FRAME DIM FROM 2.75 TO 3.75	PN 2/10/2011	AJ	.XXXX	±.0005	MATL	REF	
NO	REVISION	BY & DATE	CHK	ANG	±7.30"	FINISH	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		CAD FILE	035660	SIZE
				DIST	WA - NLV			B
				DRAWING NO				035660
				REV				3

HIGH VOLTAGE

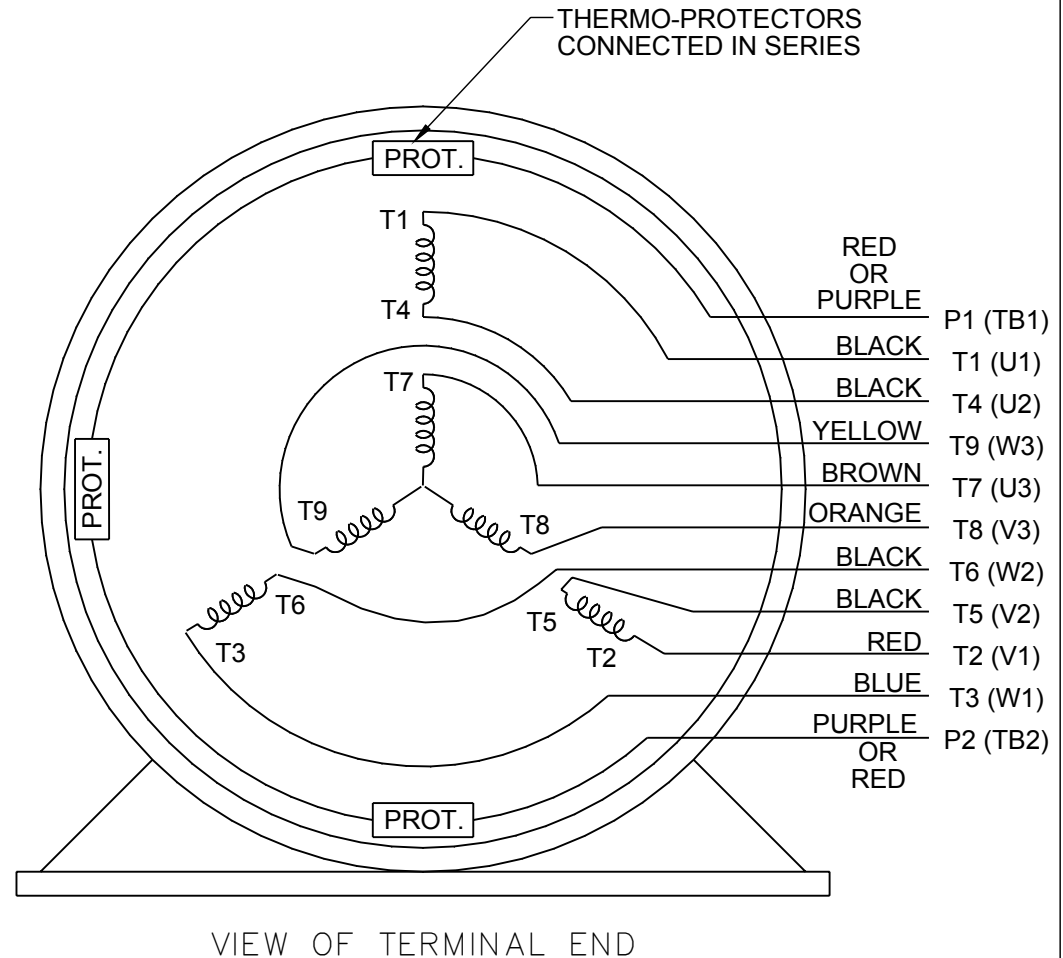


NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1

LOW VOLTAGE



NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

THREE PHASE
DUAL VOLTAGE MOTOR

DRAWING REVISION R	REVISION BY AJW	DATE 07-17-2015		DRAWN BY SMC	 Regal Beloit America, Inc.			
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015		DATE 05-13-1992	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR			
ECO DESCRIPTION REV'D IEC NOTATIONS PER IEC 60034-8 COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.				APPROVED BY TB				
				DATE 05-13-1992				
				REFERENCE EE7308/EE7300	MATERIAL		PROCESS/FINISH	
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 184TTGN6526 AA **WINDING#:** K1844215 NONE 1
CONN. DIAGRAM: A-EE7308T **ASSEMBLY:** F1 ONLY
OUTLINE: 035660-1000

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&3	3.7&2.24	1800	1755&1465	184T	EPFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	12.4/6.2&9.6/4 .8	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	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	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15 LB-FT	92 / 46	34.5 LB-FT 230	45 LB-FT 300	50

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	50 LB-FT^2	25 SEC.	2	130 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	TRUE	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
6206	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	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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** Subject to change without notice.

Data Sheet

Date: 6/29/2017

184TTGN6526

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



Submital

Data @ 460 V

Motor Load Data

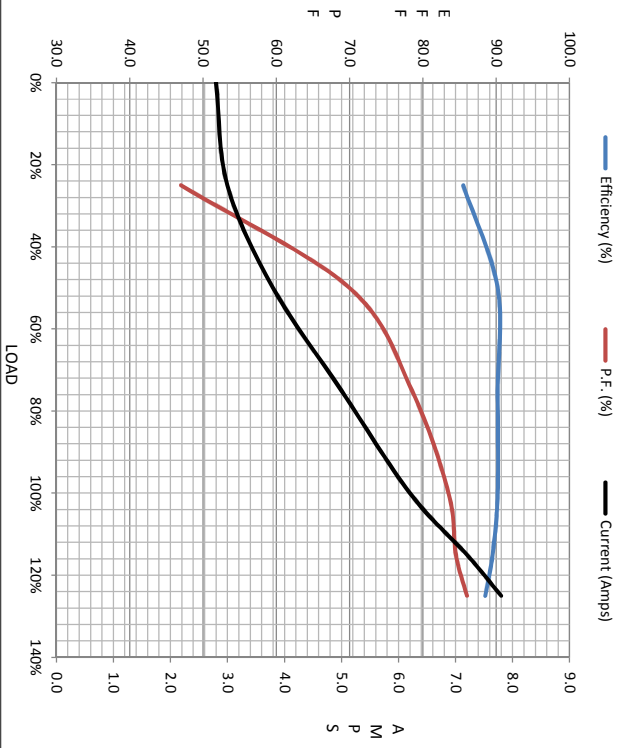
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.80	3.0	3.8	5.0	6.2	7.2	7.8	46.0
Torque (ft-lb)	0.00	3.7	7.4	11.5	15.0	17.5	19.0	34.5
RPM	1800	1790	1780	1765	1755	1745	1740	0
Efficiency (%)		85.5	90.2	90.2	90.2	89.5	88.5	
P.F. (%)	6.5	47.0	70.0	78.5	83.5	84.5	86.0	48.0

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	30/460#190/38 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 wkt	0.50 Lb-Fe			
Ref Wdg	K1844215 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	035660-1000			
Conn. Diag	A-EE7308T			
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

