marathon®

General Purpose Motors

Model No: 184TTFB6003
Catalog No: GT1212

General Purpose Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 184TC Frame, TEFC

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Product Information Packet: Model No: 184TTFB6003, Catalog No: GT1212 General Purpose Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 184TC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**5 & 3 Hp**
Output KW	**3.7 & 2.2 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3530 & 2920 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.0**	Frame	**184TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**88.5 & 89.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**12/6 & 8.6/4.3 A**
Power Factor	**89**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	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

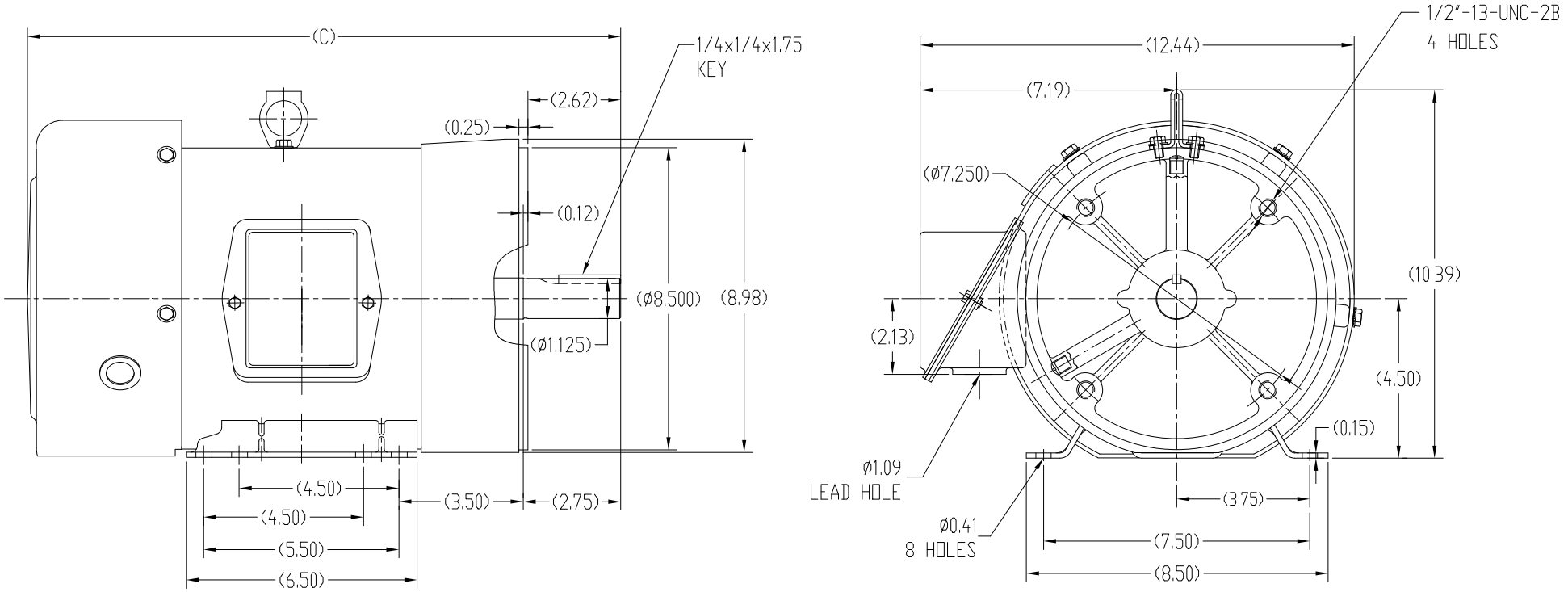
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**1.98 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**16.73 in**
Shaft Diameter	**1 1/8 in**	Shaft Extension	**2.62 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 10:1**

Drawings

Connection Drawing	**EE7308**	Outline Drawing	**SS620296-184TC**

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TTFB 182TC	15.75
TTFB 184TC	16.73
FRAME	C

DRAWING REVISION: C	REVISION BY: SV	REV DATE/ © DATE: 09/23/2026
REQUEST NUMBER: CR-0027816	APPROVED BY: RMS	DATE: 09/23/2026
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±0.5°
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 125 INCH / 3.2 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	SY
DATE	04/19/2010
APPROVED BY	CL
DATE	04/19/2010
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION: OUTLINE
182/184 TC - TTFB

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS620296	1 OF 1

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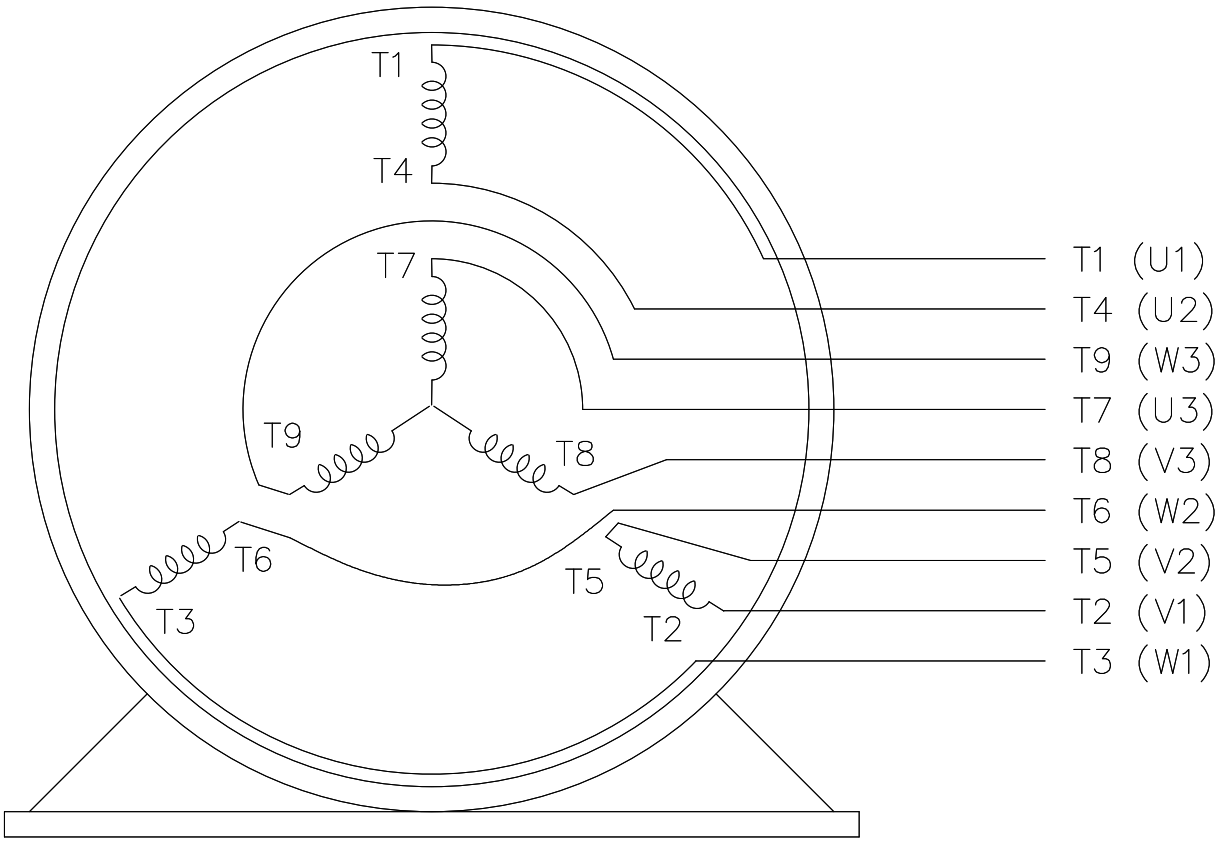
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

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

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
J	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/01/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY	RM
DATE	11/20/1990
APPROVED BY	SAS
DATE	04/24/2003
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 6 EE7308	1 OF 1

Data Sheet

Date: 19-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

184TTFB6003

Submittal

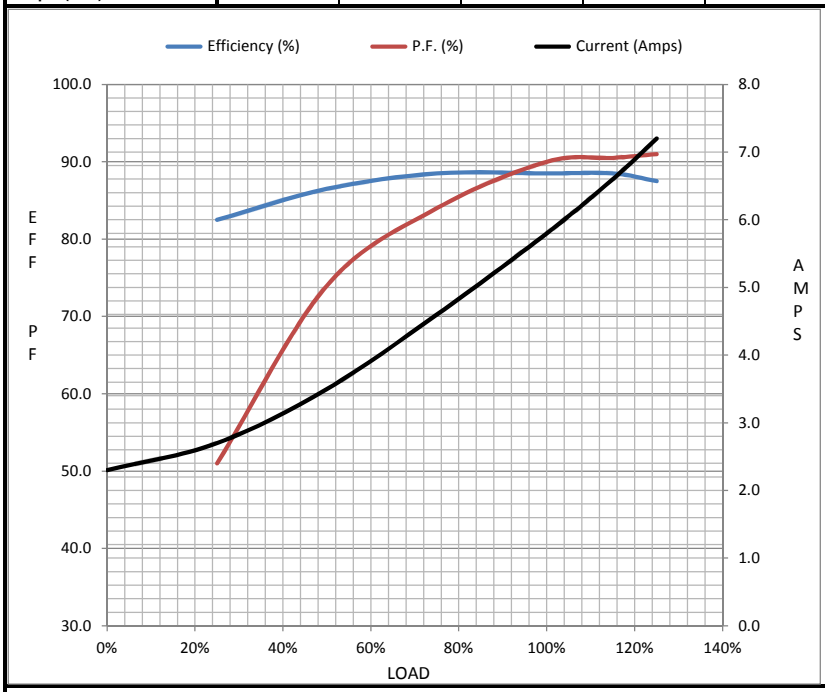
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.30	2.70	3.5	4.6	5.8	6.6	7.2	44.0	
Torque (ft-lb)	0.00	1.85	3.7	5.6	7.5	8.6	9.4	15.3	
RPM	3600	3570	3550	3525	3500	3,490	3475	0	
Efficiency (%)		82.5	86.5	88.5	88.5	88.5	87.5		
P.F. (%)	12.0	51.0	74.0	84.0	90.0	90.5	91.0	51.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2875	3500	3600
Current (Amps)	44.0	40.0	30.0	5.8	2.30
Torque (ft-lb)	15.3	14.0	24.7	7.5	0.00



Information Block

HP	5.0
Sync. RPM	3600
Frame	184
Enclosure	TEFC
Construction	TFC
Voltage	230/460#190/38(V
Frequency	60 Hz
Design	B
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	0.28 Lb-Ft²
Ref Wdg	CHT18420005 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	SS620296
Conn. Diag	EE7308

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.1930	0.9370	2.8970	1.5900	128.9360

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	184TTFB6003 BB	**WINDING#:**	CHT18420005 NONE 1
CONN. DIAGRAM:	EE7308	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	SS620296		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&3	3.70&2.24	3600	3530&2920	184TC	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	12/6&8.6/4.3	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.0	40	3300

FULL LOAD EFF: 88.5&89.5	3/4 LOAD EFF: 88.5	1/2 LOAD EFF: 86.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&85	3/4 LOAD PF: 84	1/2 LOAD PF: 74	87.5	SQ CAGE INV RATED	4.6 / 2.3

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.5 LB-FT	88 / 44	15.3 LB-FT 206	24.7 LB-FT 332	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.28 LB-FT^2	5 LB-FT^2	15 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 6206	BALL 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 06:50:38 AM
FORM 3531 REV.3 02/07/99
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