marathon®

General Purpose Motors

Model No: 182TTFB6004
Catalog No: GT1309

General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182TC Frame, TEFC

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Product Information Packet: Model No: 182TTFB6004, Catalog No: GT1309 General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182TC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**3 & 2 Hp**
Output KW	**2.2 & 1.5 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3532 & 2940 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.0**	Frame	**182TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**86.5 & 85.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**7.6/3.8 & 6/3 A**
Power Factor	**87**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**A**
KVA Code	**H**	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

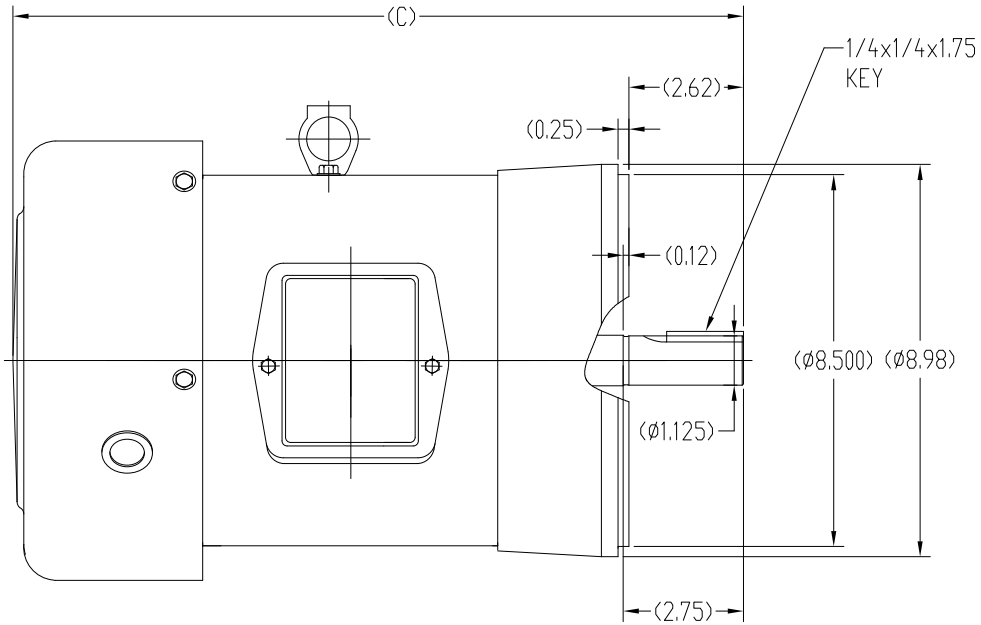
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**3.45 O**	Mounting	**Round**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**15.75 in**
Shaft Diameter	**1 1/8 in**	Shaft Extension	**2.62 in**
Assembly/Box Mounting	**F1/F2 Capable**		

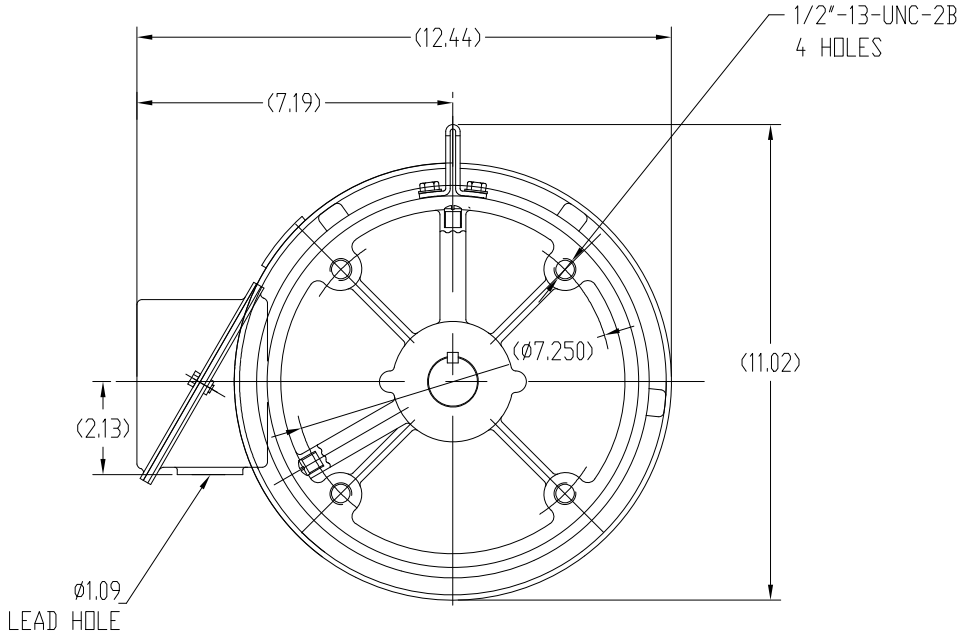
Drawings

Connection Drawing	**A-EE7308**	Outline Drawing	**SS620307-182TC**

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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
182/184TC - TTFB

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS620307	1 OF 1

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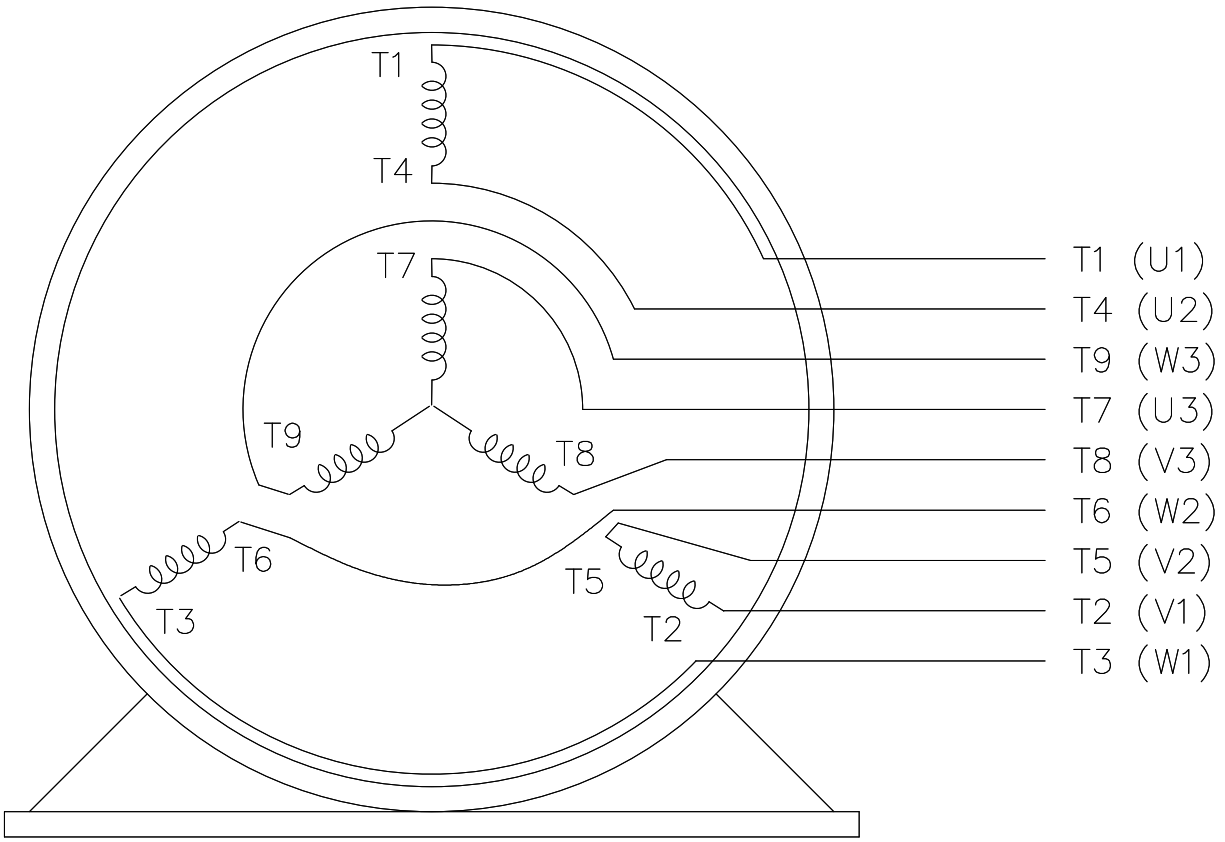
THREE PHASE
DUAL VOLTAGE MOTOR

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
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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: 29-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

182TTFB6004

Submittal

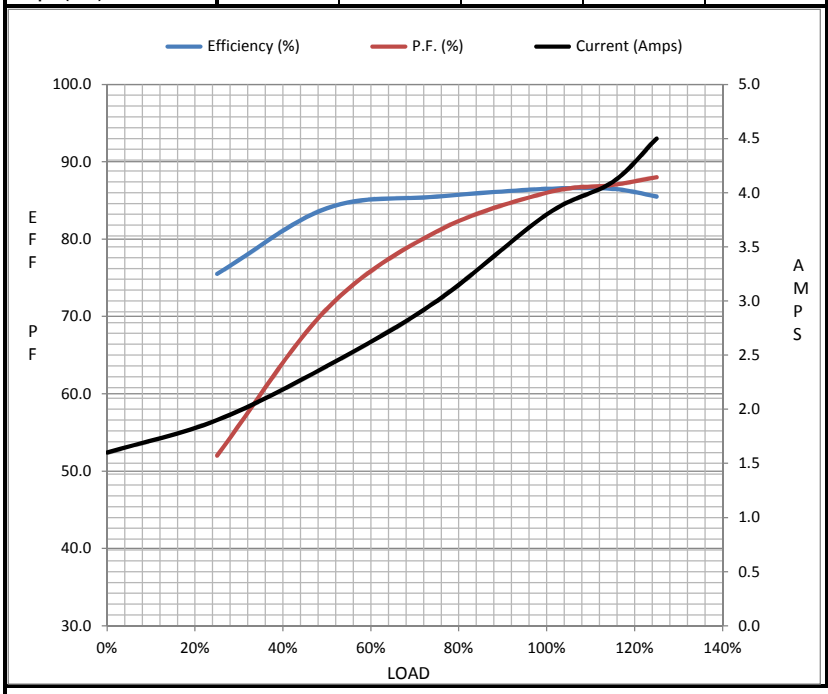
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.60	1.90	2.40	3.0	3.8	4.1	4.5	25.0	
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.1	5.6	8.1	
RPM	3600	3575	3555	3540	3532	3,520	3505	0	
Efficiency (%)		75.5	84.0	85.5	86.5	86.5	85.5		
P.F. (%)	9.0	52.0	71.0	81.0	86.0	87.0	88.0	49.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2850	3532	3600
Current (Amps)	25.0	22.0	17.5	3.8	1.60
Torque (ft-lb)	8.1	7.0	13.8	4.5	0.00



Information Block

HP	3.0
Sync. RPM	3600
Frame	182
Enclosure	TEFC
Construction	TFC
Voltage	230/460#190/38(V
Frequency	60 Hz
Design	B
LR Code letter	L
Service Factor	1.15
Temp Rise @ FL	55 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.20 Lb-Ft²
Ref Wdg	CHT18220005 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	NONE
Outline Dwg	B-SS620307
Conn. Diag	A-EE7308

Additional Specifications:

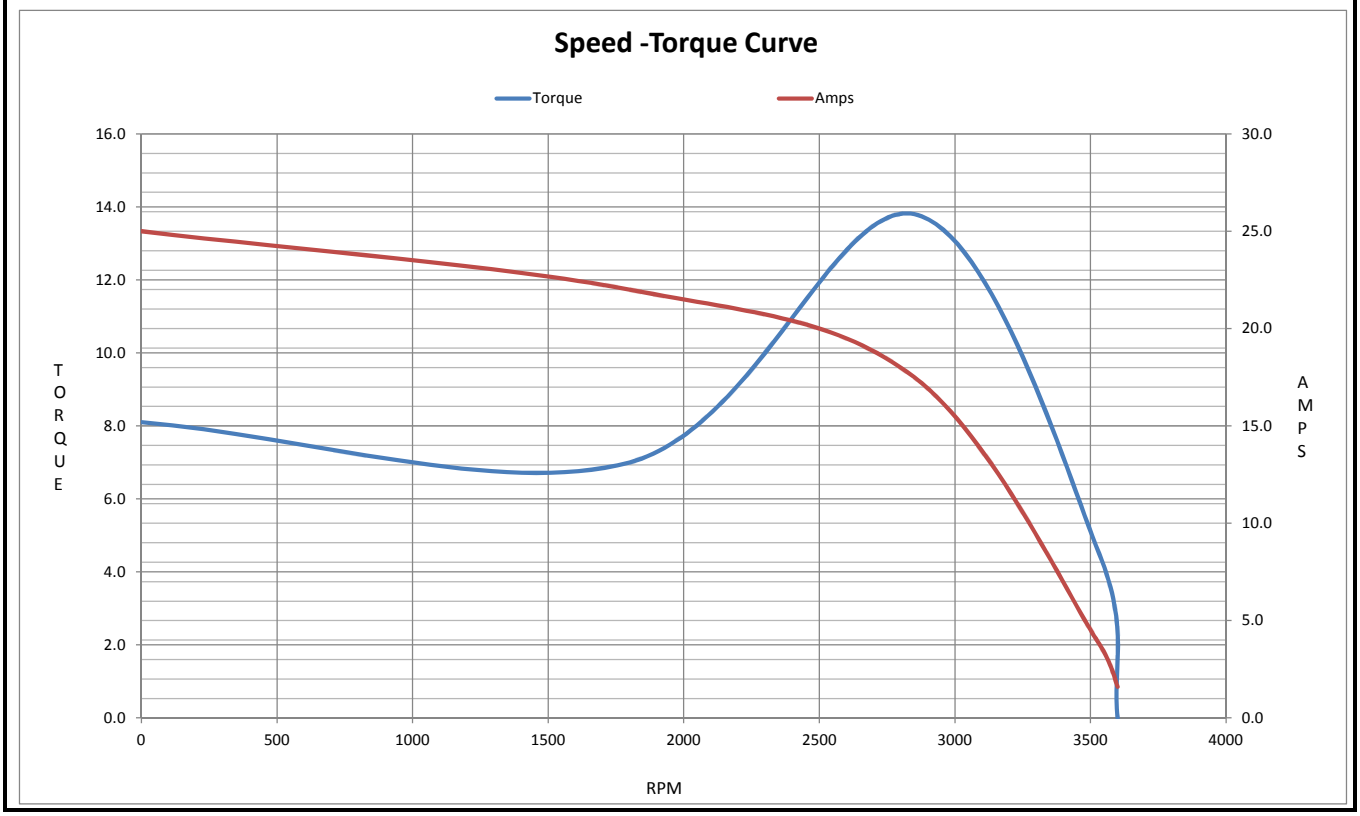
0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.0810	1.4660	4.7300	2.1290	174.5370

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	182TTFB6004 BB	**WINDING#:**	CHT18220005 NONE 1
CONN. DIAGRAM:	A-EE7308	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS620307		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	3600	3532&2940	182TC	TEFC	H	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	7.6/3.8&6/3	ACROSS THE LINE	CONTINUOUS	F7	1.15/1.0	40	3300

FULL LOAD EFF: 86.5&85.5	3/4 LOAD EFF: 85.5	1/2 LOAD EFF: 84	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&84	3/4 LOAD PF: 81	1/2 LOAD PF: 71	85.5	SQ CAGE IND RUN	3.2 / 1.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	50 / 25	8.1 LB-FT 180	13.8 LB-FT 307	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.2 LB-FT^2	34 LB-FT^2	25 SEC.	2	70 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	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: 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

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FORM 3531 REV.3 02/07/99
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