marathon®

General Purpose Motors

Model No: 182TTDW16090
Catalog No: E799B

General Purpose Motor, 1.50 HP, 3 Ph, 60 Hz, 200 V, 1200 RPM, 182T Frame, DP

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Product Information Packet: Model No: 182TTDW16090, Catalog No: E799B General Purpose Motor, 1.50 HP, 3 Ph, 60 Hz, 200 V, 1200 RPM, 182T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**1.50 Hp**
Output KW	**1.1 kW**	Voltage	**200 V**
Speed	**1170 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**182T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**86.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**6.1 A**
Power Factor	**61.4**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**L**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**12**	Number of Speeds	**1**

Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**0 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	**13.19 in**
Frame Length	**9.0 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.81 in**	Assembly/Box Mounting	**F1 Only**

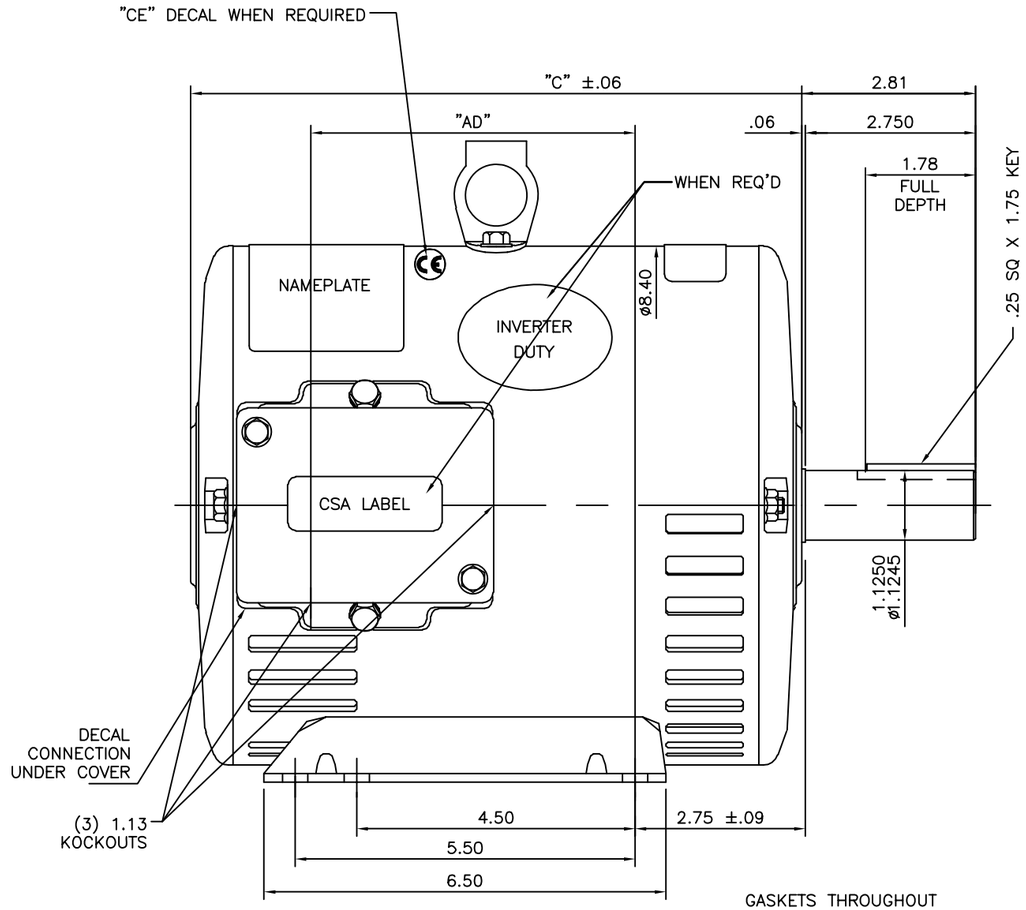
Drawings

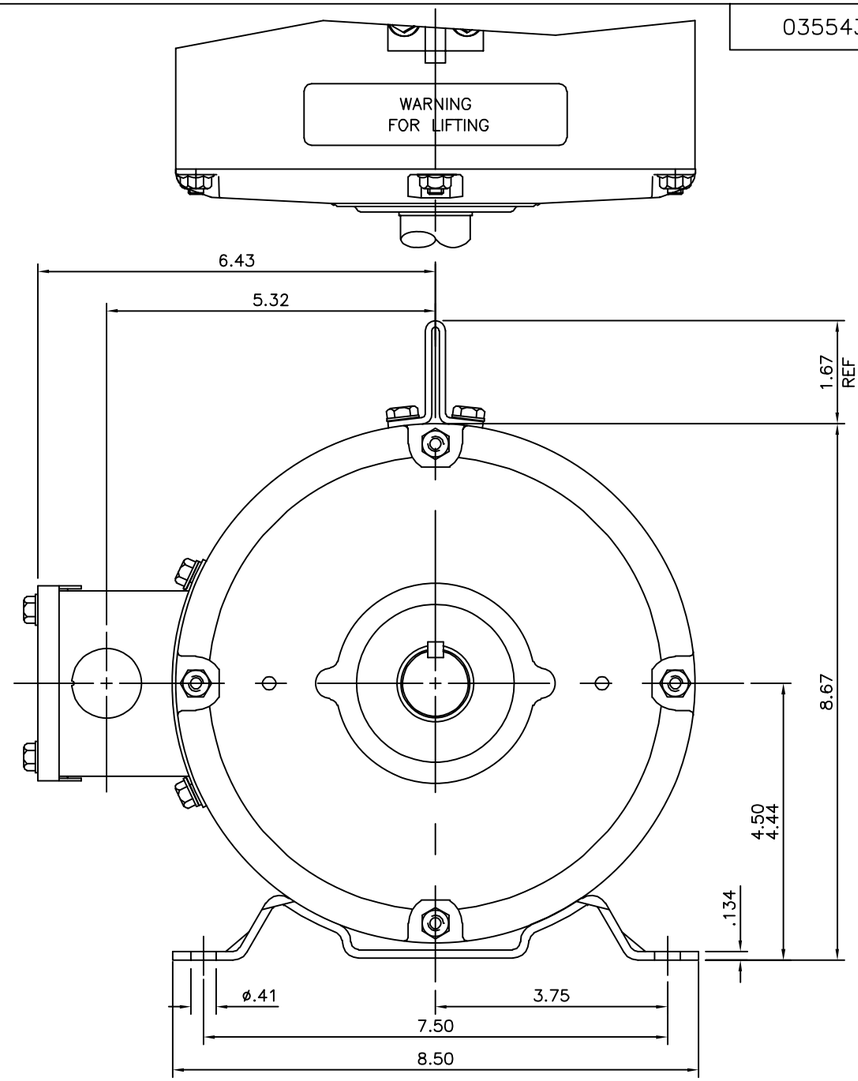
Connection Drawing	**005102.01ME**	Outline Drawing	**035543-900**

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035543





GASKETS THROUGHOUT

DASH NO.	"C"	"AD"
850	12.69	5.25
900	13.19	5.75
950	13.69	6.25
1000	14.19	6.75
1050	14.69	7.25
1100	15.19	7.75
1150	15.69	8.25
1200	16.19	8.75

NO.	REVISION	BY & DATE	CHK
01	WHEN REQ'D NOTE ADDED	PVR 06/16/15	GR

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

TITLE: OUTLINE – 180T FRAME DRIP PROOF – RIGID

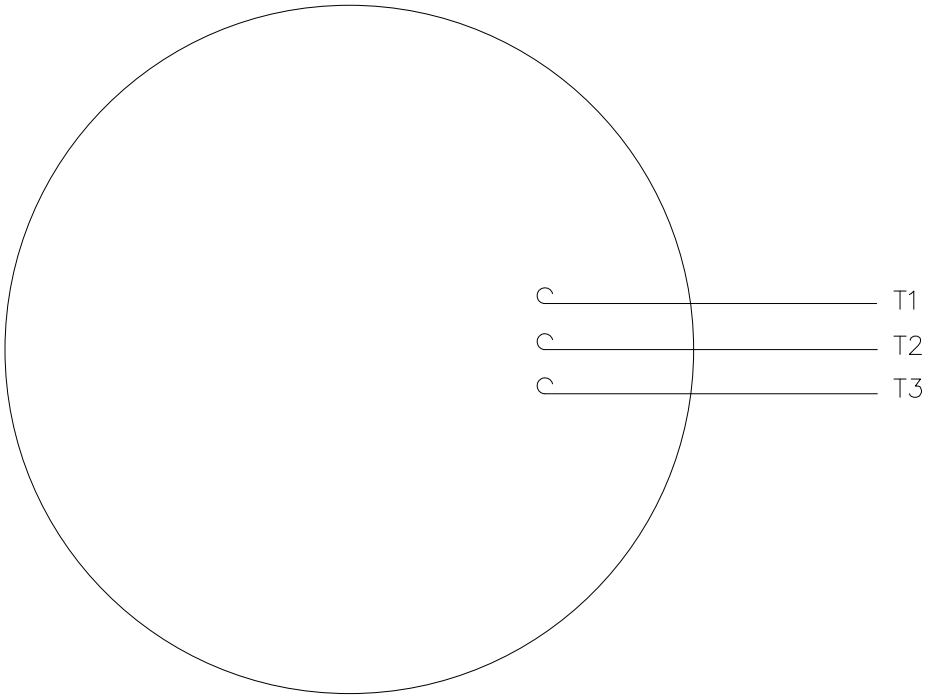
DRAWN	YS 03/14/08
CHK	YS 08/08/07
APPD	
SCALE	1=2
REF	035534
FMF	
PREV	
MAT'L.	
FINISH	
CAD FILE	035543
RFP	
DIST	NLV

SIZE	DRAWING NO.	REV.
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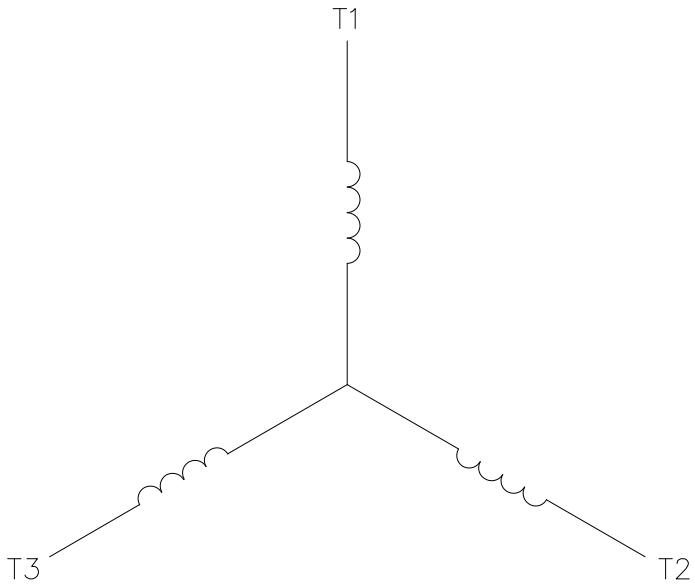
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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ( )

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
D	SV	05/11/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026249	RMS	05/11/2026

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	±0.01	[±0.3]	
.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	DATE	APPROVED BY	DATE	REFERENCE
RDW	05/01/02			

THIRD ANGLE PROJECTION

marathon™

DESCRIPTION
EXTERNAL WIRING DIAGRAM
TYPE "T" W/O PROTECTOR

MATERIAL	PROCESS/FINISH
DECAL - 004169	

SIZE	DRAWING NUMBER	SHEET
A	005102-01ME	1 OF 1

4 of 6

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Data Sheet

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

marathon® electric

182TTDW16090

Submittal

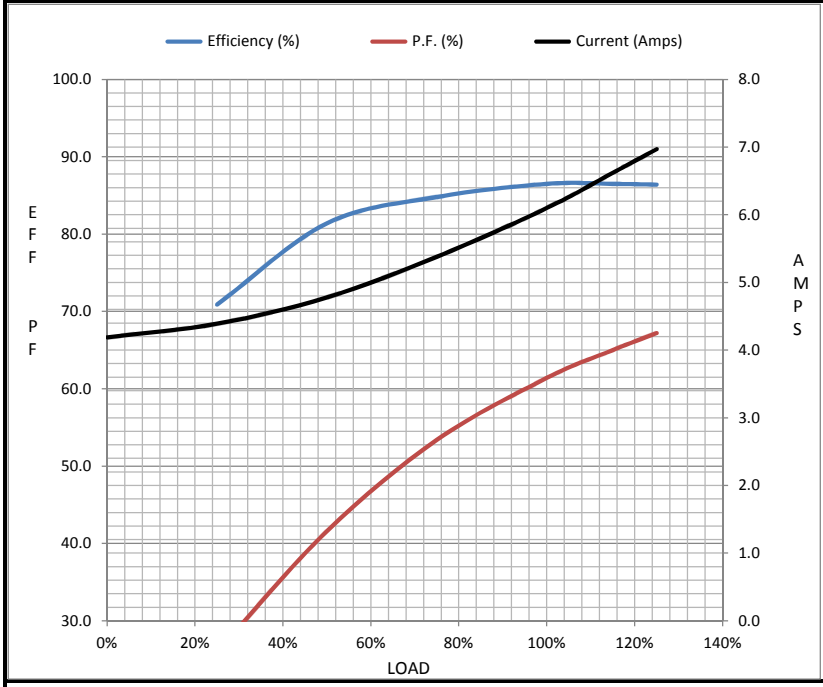
Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.2	4.4	4.8	5.4	6.1	6.6	7.0	40.0	
Torque (ft-lb)	0.00	1.65	3.3	5.0	6.7	7.7	8.4	13.7	
RPM	1200	1195	1190	1184	1170	1,175	1172	0	
Efficiency (%)		70.9	81.4	84.8	86.5	86.5	86.4		
P.F. (%)	7.5	26.0	41.6	53.4	61.4	65.0	67.2	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	193	1021	1170	1200
Current (Amps)	40.0	37.3	19.3	6.1	4.2
Torque (ft-lb)	13.7	13.5	24.8	6.7	0.00



Information Block

HP	1.5
Sync. RPM	1200
Frame	180
Enclosure	DP
Construction	TDW
Voltage	200 V
Frequency	60 Hz
Design	B
LR Code letter	L
Service Factor	1.15
Temp Rise @ FL	28 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.51 Lb-Ft²
Ref Wdg	T8635 DR
Sound Pressure @ 1M	0 dBA
VFD Rating	NONE
Outline Dwg	035543-900
Conn. Diag	005102.01ME

Additional Specifications:

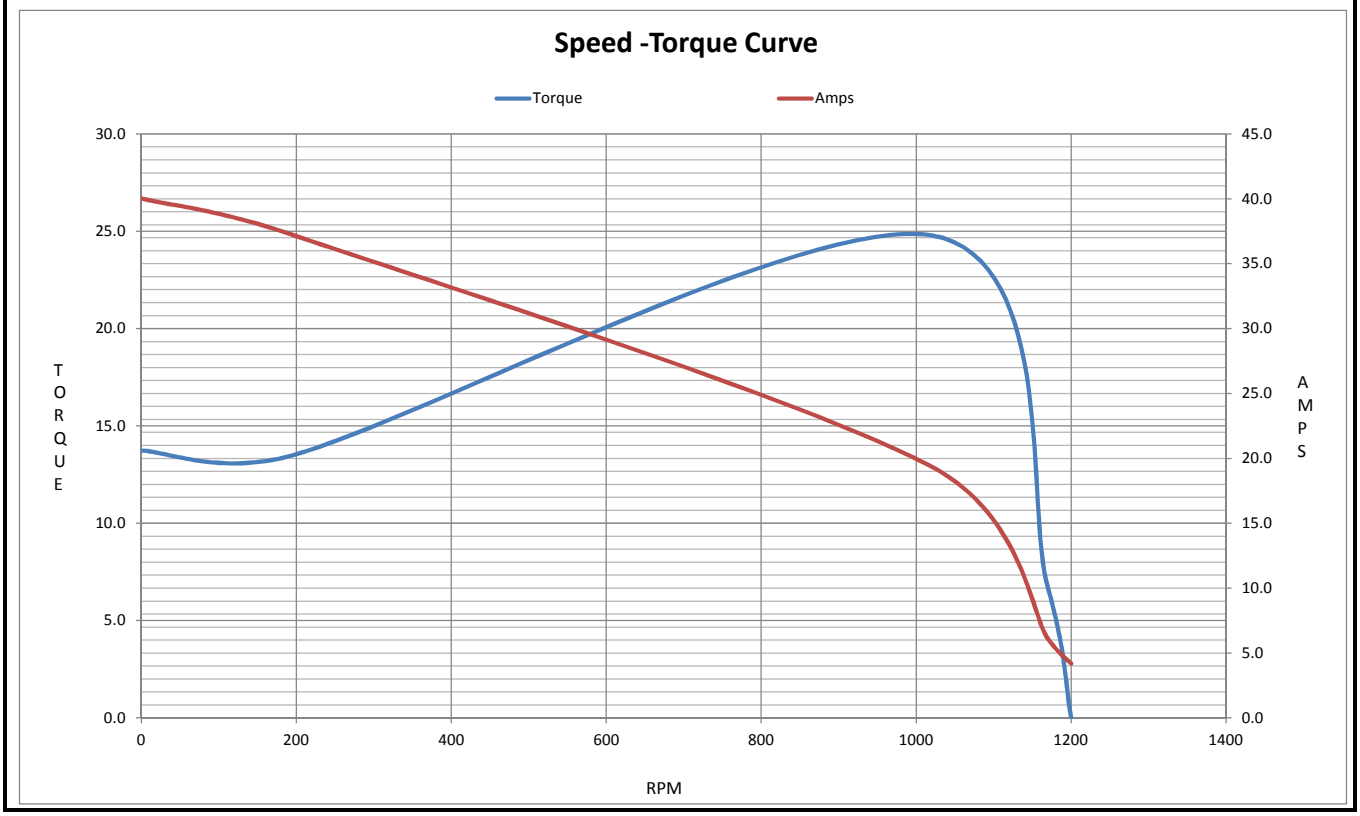
0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	182TTDW16090 AA	**WINDING#:**	T8635 DR 7
CONN. DIAGRAM:	005102.01ME	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	035543-900		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2	1.12	1200	1170	182T	DP	L	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	6.1	ACROSS THE LINE	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 86.5	3/4 LOAD EFF: 84.8	1/2 LOAD EFF: 81.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 61.4	3/4 LOAD PF: 53.4	1/2 LOAD PF: 41.6	0	SQ CAGE IND RUN	4.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6.68 LB-FT	40	13.73 LB-FT 206	24.78 LB-FT 371	28

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.51 LB-FT^2	0 LB-FT^2	10 SEC.	0	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	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	AISI 1045 (C-240)	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

*
NOTES
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