marathon®

General Purpose Motors

Model No: 182TCDW17084
Catalog No: I141A

General Purpose Motor, 1 HP, 1 Ph, 60 Hz, 115/230 V, 1200 RPM, 182T Frame, DP

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Product Information Packet: Model No: 182TCDW17084, Catalog No: I141A General Purpose Motor, 1 HP, 1 Ph, 60 Hz, 115/230 V, 1200 RPM, 182T Frame, DP

Nameplate Specifications

Phase	**1**	Output HP	**1 Hp**
Output KW	**0.75 kW**	Voltage	**115/230 V**
Speed	**1165 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**182T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**68 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**15.6/7.8 A**
Power Factor	**61.5**	Duty	**Continuous**
Insulation Class	**B**	Design Code	**L**
KVA Code	**K**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

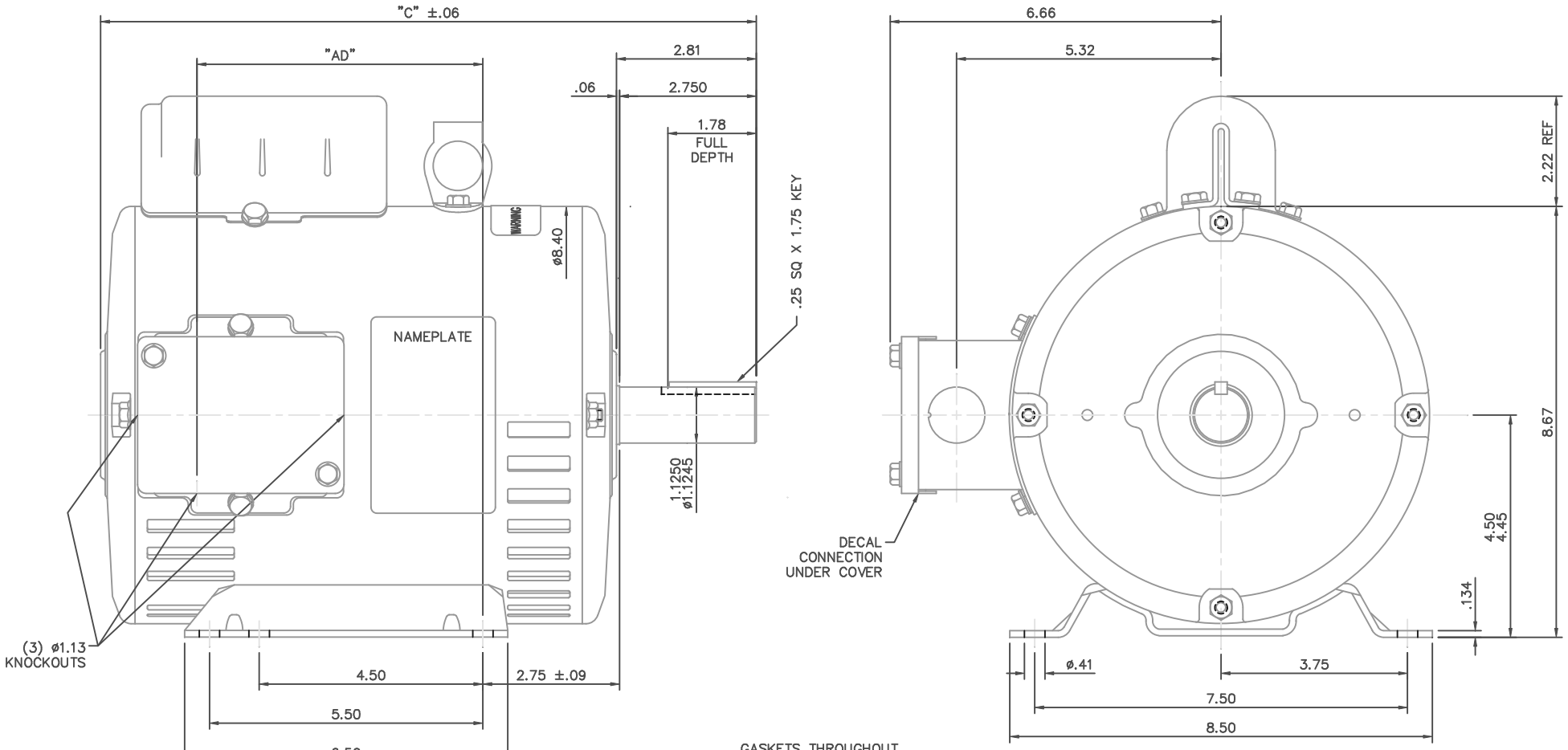
Technical Specifications

Electrical Type	**Capacitor Start Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Selective Counterclockwise**
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	**14.19 in**
Frame Length	**10.0 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.81 in**	Assembly/Box Mounting	**F1 Only**

Drawings

Connection Drawing	**EE7085FP**	Outline Drawing	**035668-1000**

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GASKETS THROUGHOUT

DASH NO.	"C"	"AD"
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

NO.	REVISION	BY & DATE	CHK

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 GRB 04/18/08
CHK
APPD
SCALE 1=2
REF 035472
MAT'L.
FMF
FINISH
PREV

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RFP
DIST
CAD FILE 035668

SIZE B | DRAWING NO. 035668 | REV.

LOW VOLTAGE

CW CCW

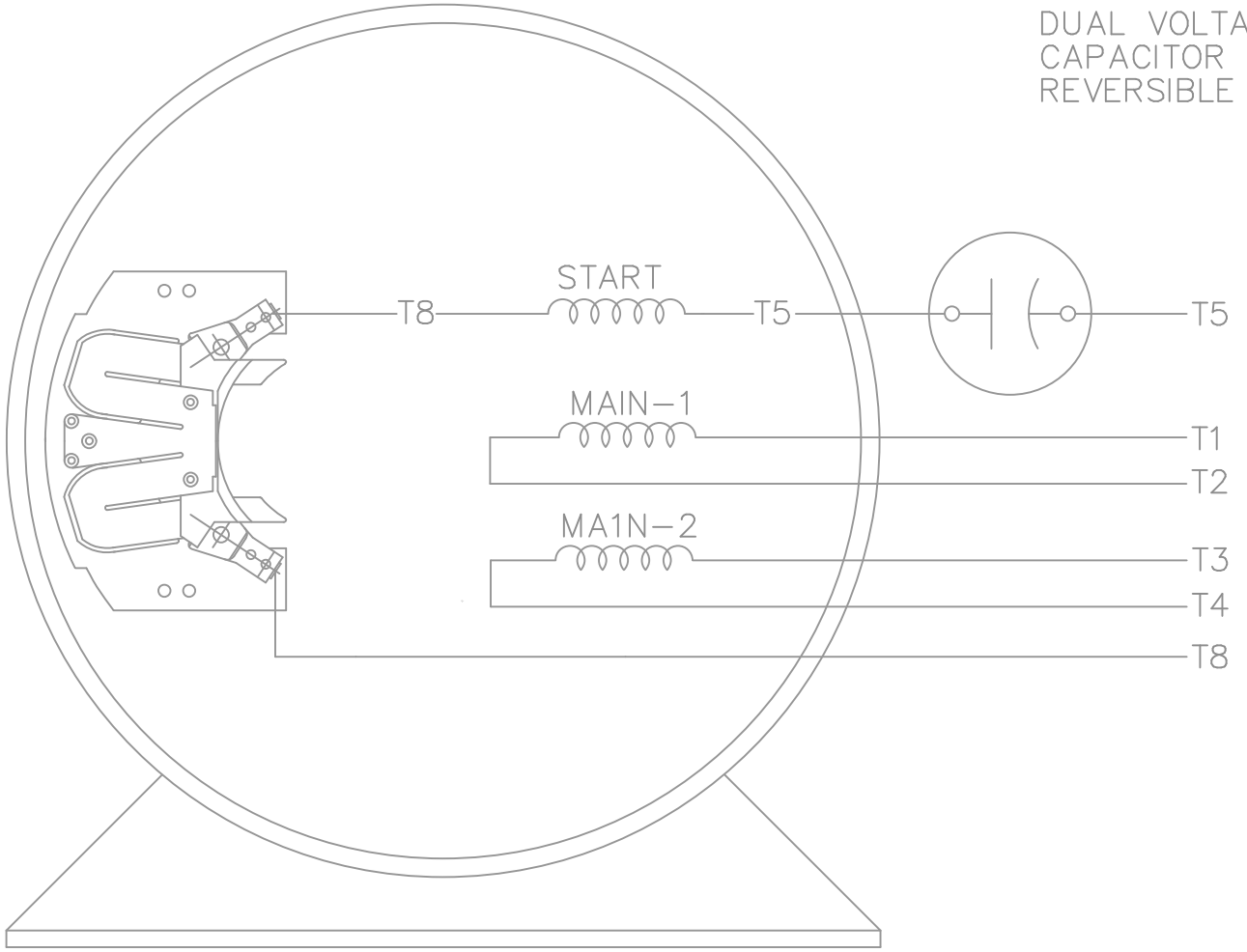
T1 — T1
T3 — L1 — T3
T5 — T8
T2 — T2
T4 — L2 — T4
T8 — T5

HIGH VOLTAGE

CW CCW

T1 — L1 — T1
T4 — T4
T8 — L2 — T5
T2 — T2
T3 — INSUL. — T3
T5 — T8

DUAL VOLTAGE
CAPACITOR START
REVERSIBLE



VIEW OF TERMINAL END

NO.	REVISION	BY & DATE	CHK
2	REDRAWN IN AUTOCAD	RWR 08-02-2004	
1	NEW DRAWING CN7664C	GK 12-15-1996	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	± –
.XX	± –
.XXX	± –
.XXXX	± –
ANG	± –

MARATHON ELECTRIC

TITLE CONNECTION DIAGRAM

MAT'L.

FINISH

CAD FILE EE7085FP

RFP

DIST LB

DRAWN	GK 09-24-1986
CHK	FG 09-24-1986
APPD	ML 09-24-1986
SCALE	1=1
REF	
FMF	
PREV	

SIZE A

DRAWING NO. EE7085FP

PAGE 1 OF 1

REV. 2

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CERTIFICATION DATA SHEET

Model#:	182TCDW17084 AA	**WINDING#:**	C8610 R1 3
CONN. DIAGRAM:	005062.01ME	**ASSEMBLY:**	F1 ONLY
OUTLINE:	035668-1000		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1	.75	1200	1165	182T	DP	K	L

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	115/230	15.6/7.8	ACROSS THE LINE	CONTINUOUS	B4	1.15	40	3300

FULL LOAD EFF: 68	3/4 LOAD EFF: 66.4	1/2 LOAD EFF: 60.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 61.5	3/4 LOAD PF: 53.5	1/2 LOAD PF: 43.2	0	CAP START IND RUN	11.2 / 5.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	68.8 / 34.4	12.9 LB-FT 287	9.7 LB-FT 216	50

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