

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TCDW7001

Catalog No: I103A

3 HP General Purpose Motor, 1 phase, 3600 RPM, 115/208-230 V, 182T Frame, ODP
General Purpose Motors



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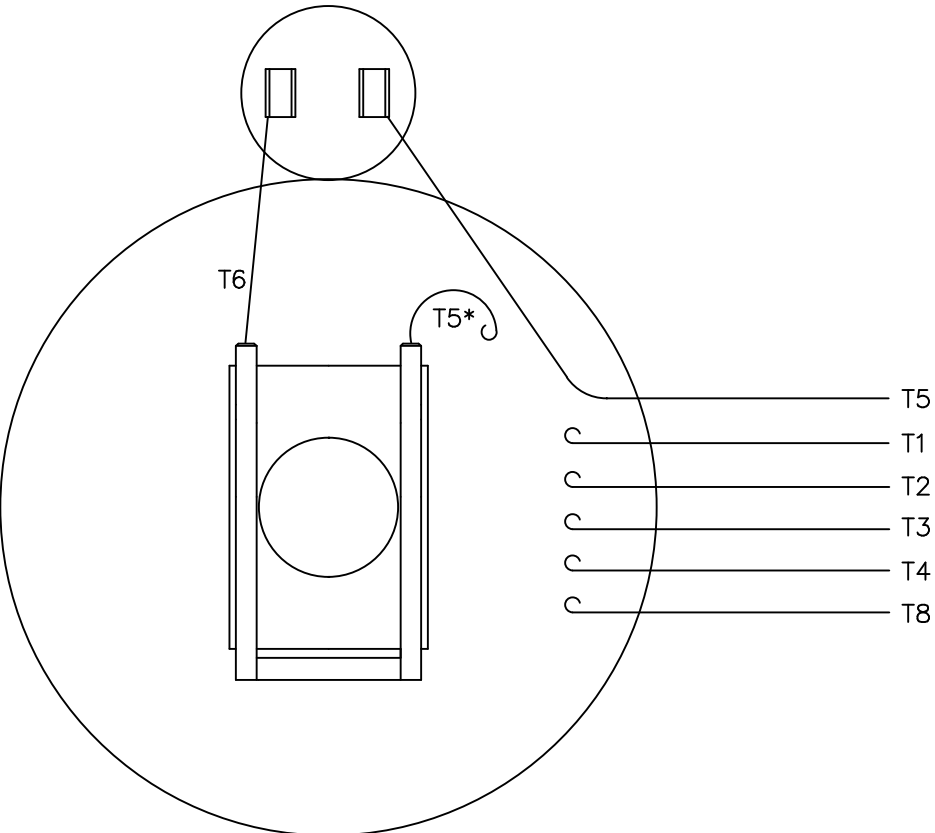
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	115/208-230 V
Current	32.0/17.1-16.1 A	Speed	3500 rpm
Service Factor	1.15	Phase	1
Efficiency	75.5 %	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	L	KVA Code	G
Frame	182T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
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

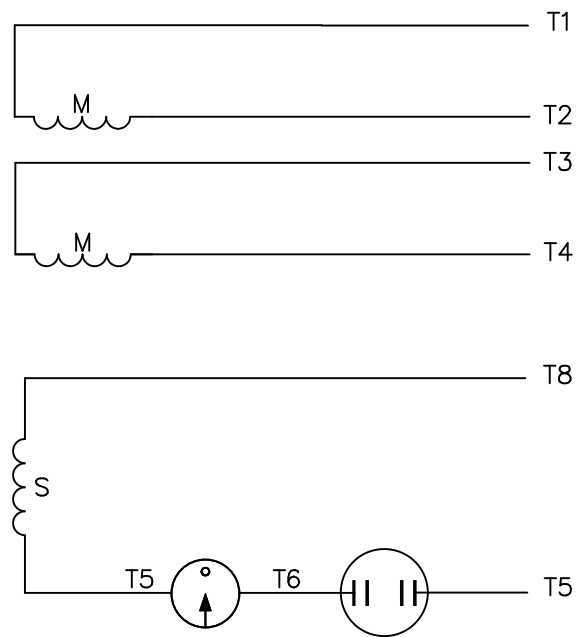
Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	.342 Ohms	Mounting	Rigid Base
Motor Orientation	Shaft Up	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	13.69 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.81 in	Assembly/Box Mounting	W8
Connection Drawing	005062.01ME	Outline Drawing	035555-950

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



* THIS LEAD MAY BE WHITE

LINE LEADS



	ROTATION FACING LEAD END	L1	L2	JOIN
HIGH VOLT	C.C.W.	T1	T4 T5	T2,T3 T8
	C.W.	T1	T4 T8	T2,T3 T5
LOW VOLT	C.C.W.	T1,T3 T8	T2,T4 T5	-----
	C.W.	T1,T3 T5	T2,T4 T8	-----

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 6/30/03	
				DEC.	INCHES		CHK	
				.X	±.1		APPD	
				.XX	±.01		SCALE 1=1	
				.XXX	±.005		REF	
				.XXXX	±.0005		FMF 139043	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	PREV	
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 00506201ME		SIZE A	DRAWING NO. 005062-01ME
				DIST				REV.

CERTIFICATION DATA SHEET

Model#: 182TCDW7001 AA
 CONN. DIAGRAM: 005062.01ME
 OUTLINE: 035555-950

WINDING#: C8219 R1 3
 ASSEMBLY: W8

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	3600	3500	182T	DP	G	L

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	115/208-230	32/17.1-16.1	ACROSS THE LINE	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 75.5	3/4 LOAD EFF: 74.7	1/2 LOAD EFF: 70.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80	3/4 LOAD PF: 73.9	1/2 LOAD PF: 63.1	0	CAP START IND RUN	17.2 / 8.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	159.8 / 79.9	7.3 LB-FT 162	10.5 LB-FT 233	45

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	0.5 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	SHAFT UP	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6207	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

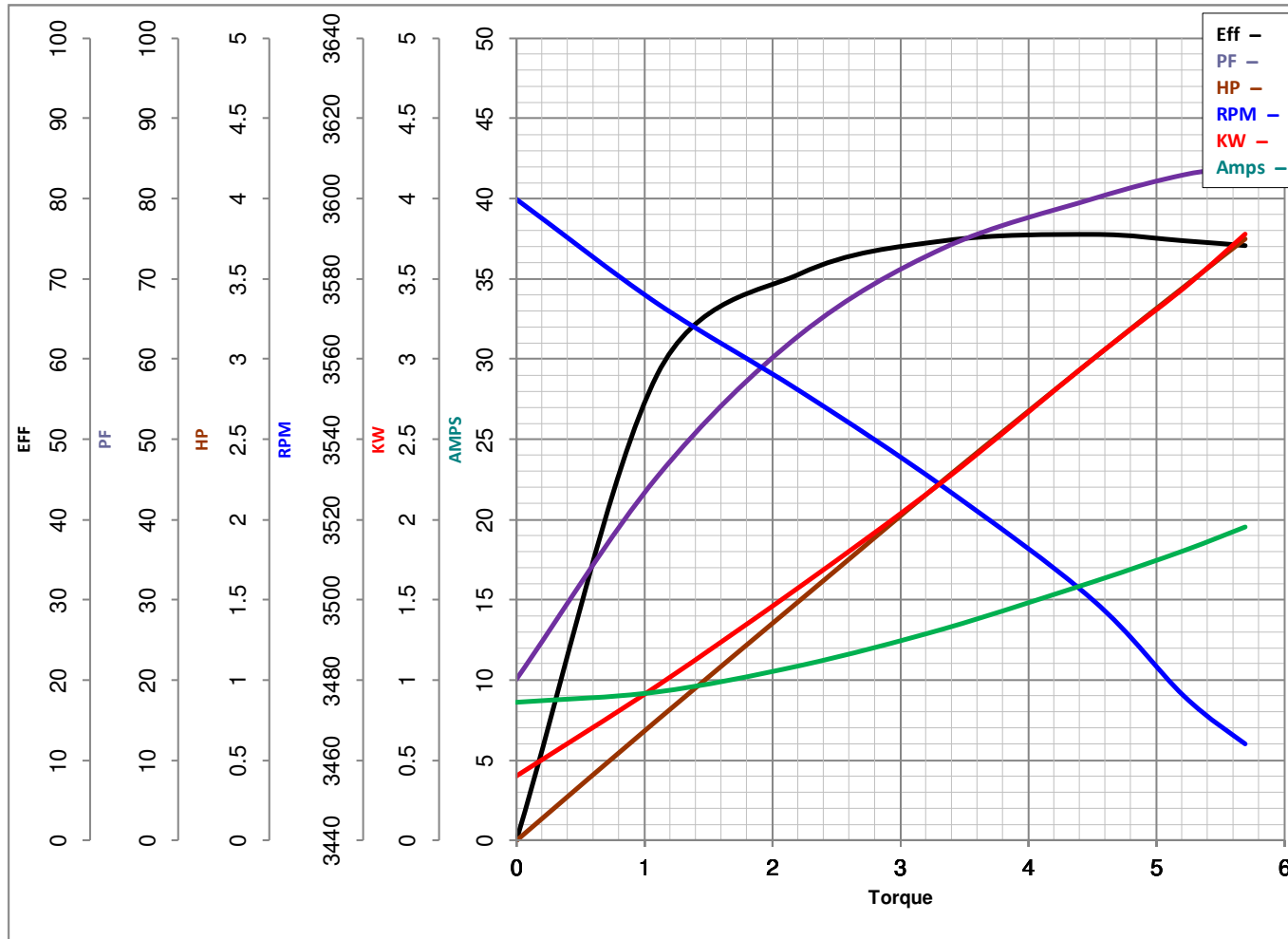
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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer**Curve at**230**Volts****HP** 3.00**PHASE** 1**Model No** 182TCDW700160**HZ****VOLTS** 115/208-2303**HP****Catalog No** I103A**HZ** 60**RPM** 3500

Torque in Lb.Ft

FL TORQUE 4.5 Lb.Ft**BD TORQUE** 10.5 Lb.Ft**LR TORQUE** 7.3 Lb.Ft**FL AMPS** 32/17.1-16.1**PU TORQUE** 6.9 Lb.Ft**LR AMPS** 79.9**WINDING** C8219-**Prepared By****Date** 1/14/2019