

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 048C17D2023
Catalog No: S010
1/3,1800,DP,48,1/60/115/230
Open Drip Proof (ODP)



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REGAL

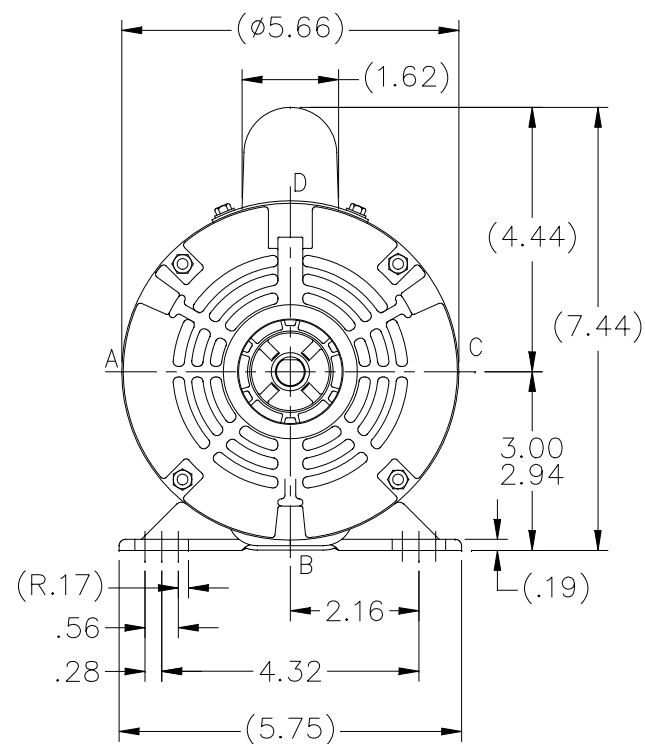


Nameplate Specifications

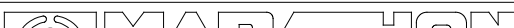
Output HP	0.33 HP	Output KW	0.25 kW
Frequency	60 Hz	Voltage	115/230 V
Current	7.0/3.5 A	Speed	1725 RPM
Service Factor	1	Phase	1
Efficiency	59.5 %	Duty	Continuous
Insulation Class	B	Design Code	NO DESIGN CODE
KVA Code	L	Frame	48
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N
IP Code	22		

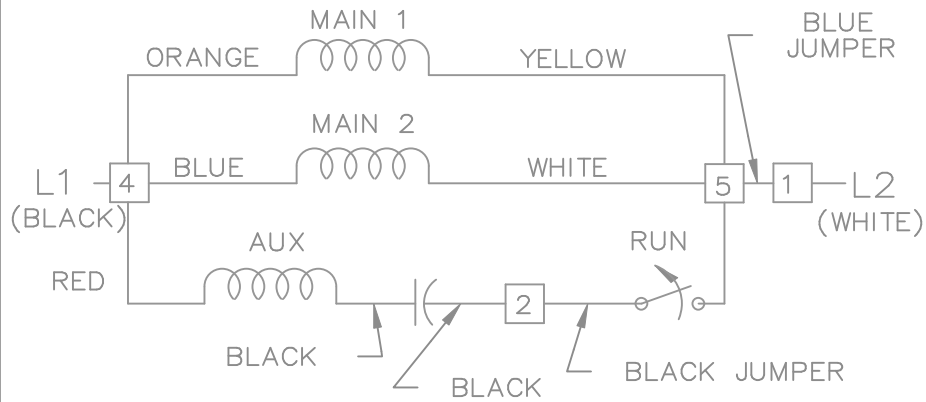
Technical Specifications

Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	NEMA 48
Overall Length	9.34 in	Frame Length	5.75 in
Shaft Diameter	0.500 in	Shaft Extension	1.59 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	A-SS78783-575	Connection Diagram	A-EE9002E



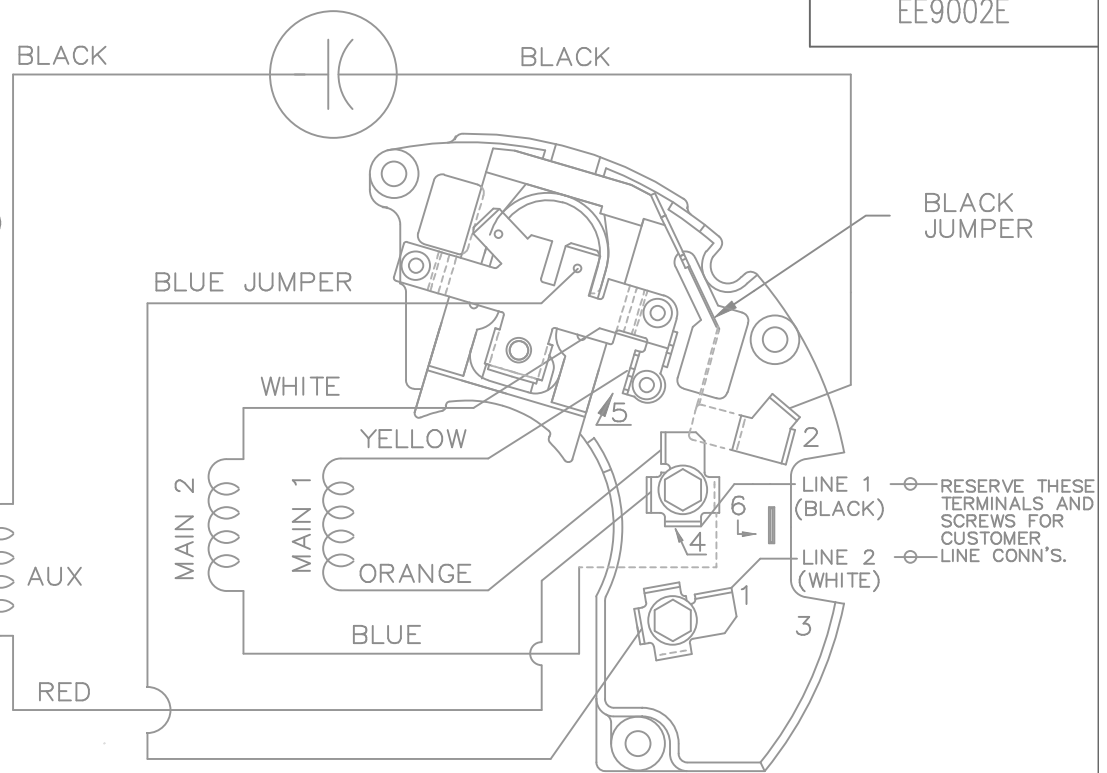
DASH	FRAME	C
575	48	9.34
625	48	9.84

					TOLERANCES UNLESS SPECIFIED		DRAWN MRB 3/10/1998	
					DEC. INCHES		CHK ML 4/1/1998	
				.X ±.1			APPD GK 4/1/1998	
6	UPDATED SHAFT EXTENSION	UD 03/08/2019	.XX ±.03	TITLE OUTLINE			SCALE 3=8	
5	UPDATED DRAWING	TJW 05/11/2007	.XXX ±.005				REF	
4	REDRAWN ON CADD – NO CHANGE	MRB 4/1/1998	.XXXX ±.0005	MAT'L.			FMF	
NO.	REVISION	BY & DATE	CHK ANG ±7°30"	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 SS78783		SIZE A	DRAWING NO. PAGE 1 OF 1 SS78783	REV. 5
			DIST WP					



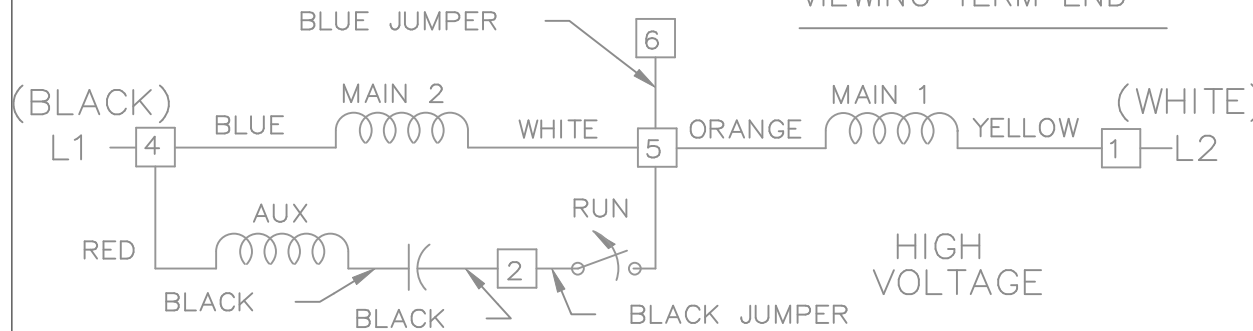
LOW
VOLTAGE

DUAL VOLTAGE CAPACITOR START
REVERSIBLE ON TERM BOARD
NO OVERLOAD PROTECTION



VIEWING TERM END


LOW VOLTAGE CCW ROTATION SHOWN



HIGH
VOLTAGE

FOR HIGH VOLTAGE:
CONNECT BLUE TERM 1 TO TERM 6,
CONNECT YELLOW TERM 5 TO TERM 1,
CONNECT ORANGE TERM 4 TO TERM 5.

TO REVERSE ROTATION EITHER VOLTAGE
INTERCHANGE RED LEAD WITH BLACK LEAD

				TOLERANCES UNLESS SPECIFIED			DRAWN ML 02-02-1988					
05	COLOURS ADDED TO L1,L2	RP	12/10/2008	DEC.	INCHES		CHK	GK	02-15-1988			
04	WHITE LEAD LOCATED UNDER BKY DATE	BLR	09/13/99	.X	±.1	TITLE CONNECTION DIAGRAM 48FR. DUAL VOLTAGE REVERSIBLE	APPD	DRN	02-24-1988			
	CODE APPR. 6K AND PRIOR CN 28441			.XX	±.02					SCALE 1=1		
03	REVIESED LINE 2 LOCATION CN 6427	RM	01/28/1991	.XXX	±.005	MAT'L.	REF	EE9002E-LE				
02	ADDED CUSTOMER CONN. NOTE CN 6011	BW	08/03/1989	.XXXX	±.0005				FMF			
NO.	REVISION	BY & DATE		CHK	ANG	±'7'30"	FINISH			PREV		
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				DIST WP				A	EE9002E			

CERTIFICATION DATA SHEET

Model#: 48C17D2023 M WINDING#: CE48419 NONE 3
CONN. DIAGRAM: A-EE9002E ASSEMBLY: F1 ONLY
OUTLINE: A-SS78783-575

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/3	0.25	1800	1725	48	DP	L	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	115/230	7/3.5	ACROSS THE LINE	CONTINUOUS	B3	1.0	40	3300

FULL LOAD EFF: 59.5	3/4 LOAD EFF: 52.2	1/2 LOAD EFF: 43.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 58.5	3/4 LOAD PF: 53.1	1/2 LOAD PF: 44.4	-	CAP START IND RUN	5.9 / 3

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
16.3 LB-FT	26.2 / 13.1	2.56 LB-FT -	2.66 LB-FT -	-

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE	MULTEMP SRL	STANDARD 48	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
BALL	BALL						
6203	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	NONE	FALSE	NONE VOLTS
NONE	NOT	NONE	NONE			

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
** Subject to change without notice.


MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

230

Volts

 HP 0.33

 PHASE 1

 Model No 48C17D2023
60

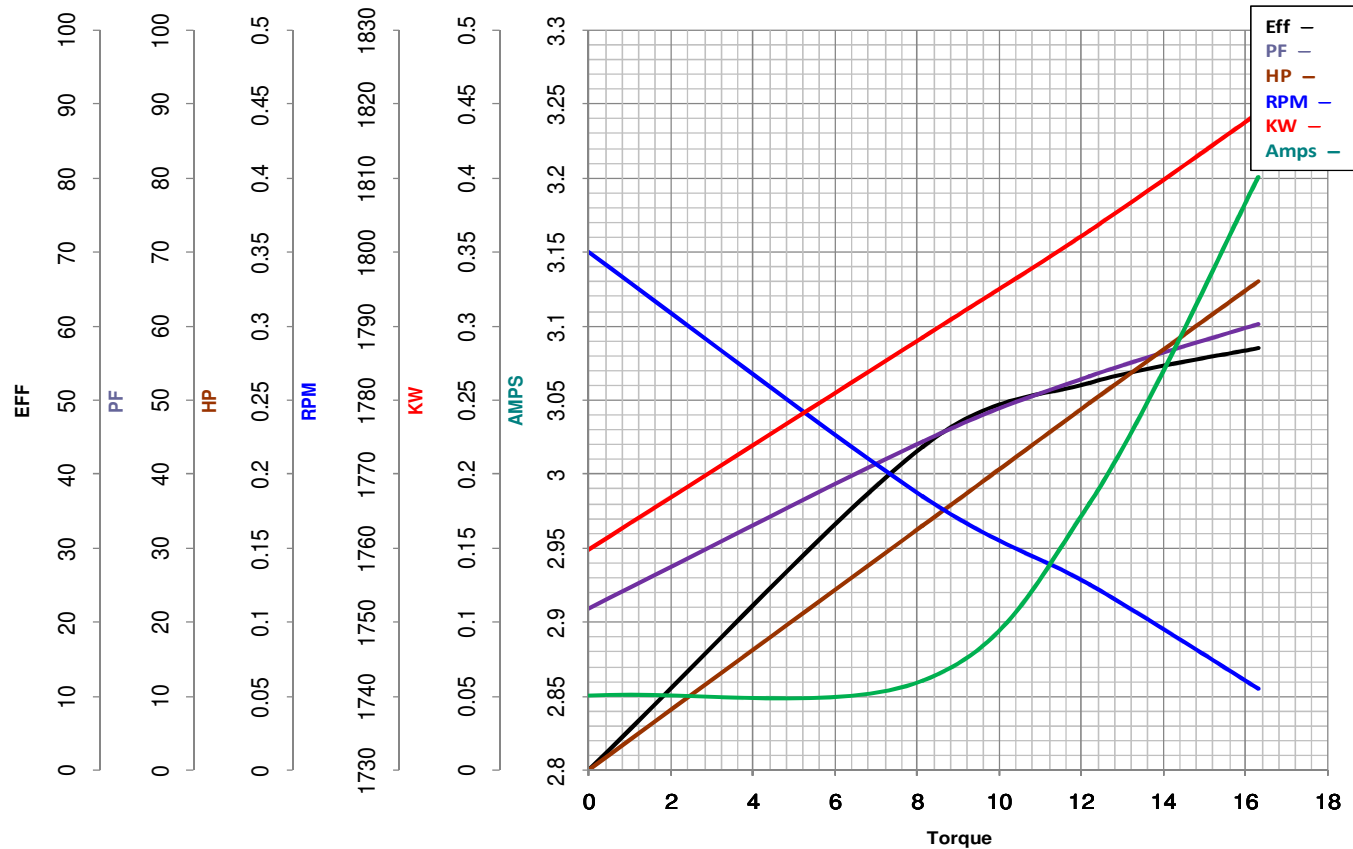
HZ

 VOLTS 115/230
0.33

HP

 HZ 60

 RPM 1725

 Catalog No S010


Torque in Oz.Ft

 FL TORQUE 16.3 Oz.Ft

 BD TORQUE 43.5 Oz.Ft

 LR TORQUE 44 Oz.Ft

WINDING CE48419-3

 FL AMPS 7/3.5

 PU TORQUE 39.0 Oz.Ft

 LR AMPS 13.1

 Date 1/7/2019