

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 184TBDR7324

Catalog No: Z313

Crop Dryer Motor, 7.50 & 10 HP, 1 Ph, 60 & 60 Hz, 230 & 230 V, 3600 & 3600 RPM, 184TZ Frame, DPAO



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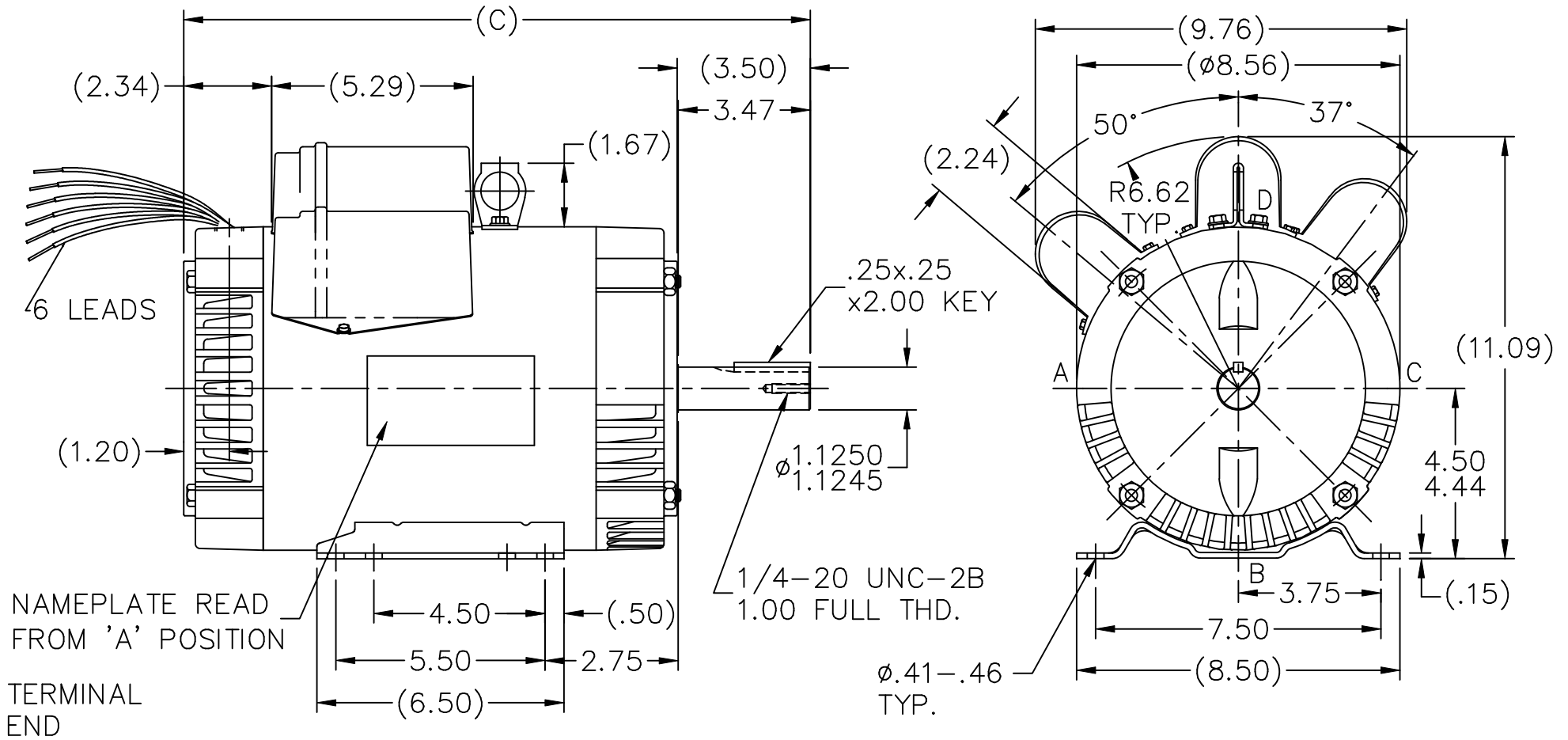
**RegalRexnord**

### Nameplate Specifications

Phase	1	Output HP	7.50 & 10 Hp
Output KW	5.6 & 7.5 kW	Voltage	230 & 230 V
Speed	3525 & 3485 rpm	Service Factor	1.35 & 1.0
Frame	184TZ	Enclosure	Drip Proof Air Over
Thermal Protection	No Protection	Efficiency	84 & 80 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	30 & 42 A	Power Factor	96.5
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	E
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

### Technical Specifications

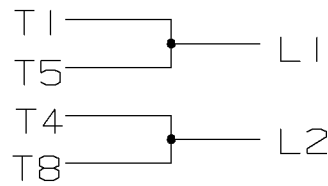
Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	.222 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	16.43 in
Frame Length	8.75 in	Shaft Diameter	1.125 in
Shaft Extension	3.5 in	Assembly/Box Mounting	F3
Connection Drawing	A-EE9048PG	Outline Drawing	A-SS68830-875



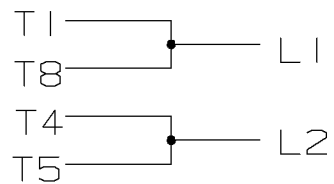
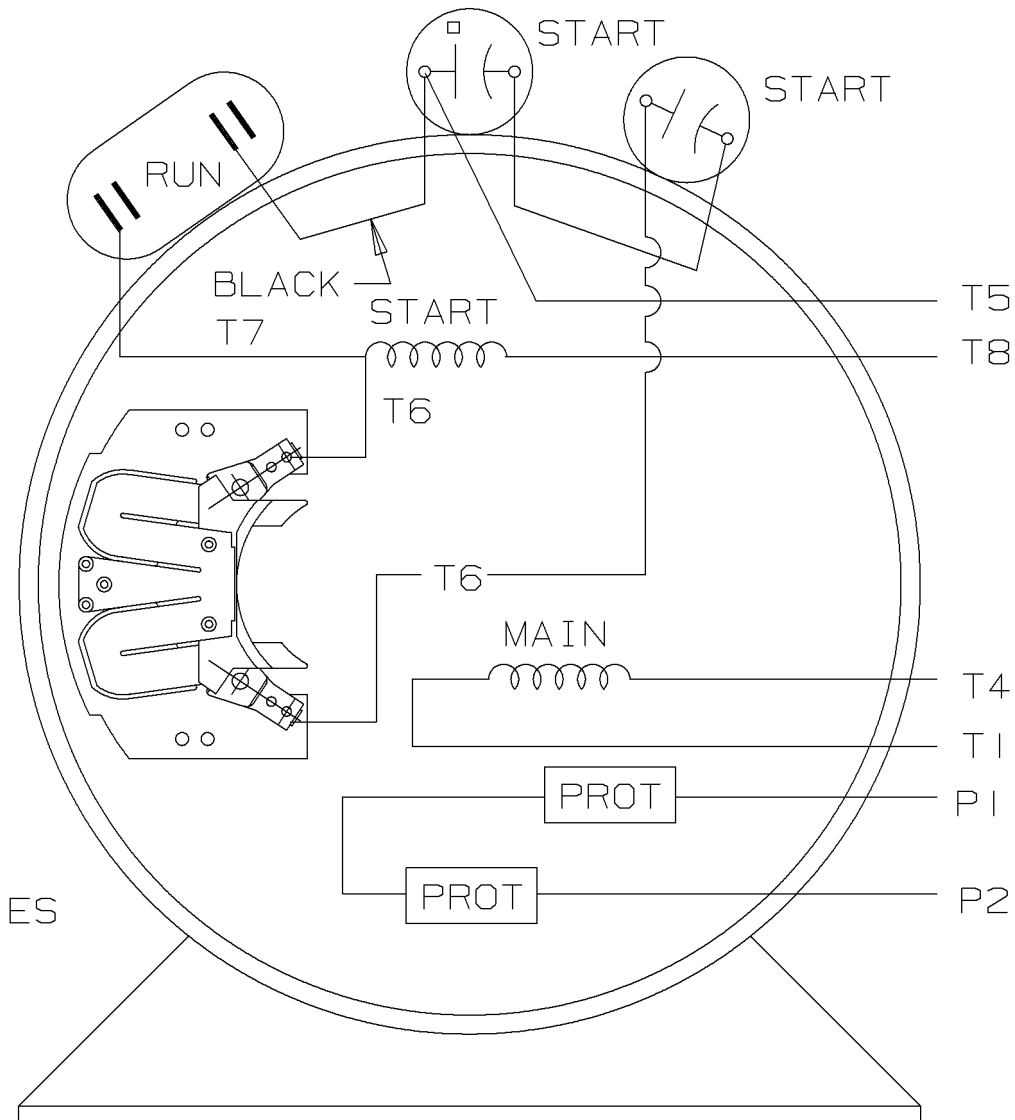
DASH	FRAME	C	
875	184	16.43	

				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN MJD 08-18-1999			
				DEC.	INCHES		CHK	ML	08-18-1999	
				.X	±.1		APPD	PH	08-19-1999	
3	REDRAWN IN AUTOCAD	TAT 06-13-2005	ML	.XX	±.03	TITLE OUTLINE 180T - OPEN - SS	SCALE 1=4			
2	ADDED FORMED LIFT LUG CN 34025	MSG 04-29-2002	ML	.XXX	±.005		REF			
1	NEW DRAWING MU26424	MJD 08-19-1999		.XXXX	±.0005		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 ss68830	SIZE A	DRAWING NO.	PAGE OF	REV.
				DIST LB				SS68830		3


C.W. ROTATION



C.C.W. ROTATION

CONNECT:  
CAPACITORS IN SERIESSINGLE VOLTAGE  
CAPACITOR START  
CAPACITOR RUN  
REVERSIBLE

VIEW OF TERMINAL END

				✓ MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±      XXX±.005      XXXX±.0005      ANGLES±				
				MATL SPEC	180-210 SWITCH		DRAWN BY MJD	08-18-1999	
				FINISH	 MARATHON ELECTRIC		CHKD BY ML	08-19-1999	
I	08-19-1999	NEW DRAWING	MJD		WAUSAU, WISCONSIN 54401		APPD BY PH	08-19-1999	
		MU26424							
REV	DATE	CHANGE	NAME	PART NAME CONNECTION DIAGRAM				DRWG NO A - EE9048PG	
		SHOP BOOK	PURCHASED	DISTRIBUTION - WA - LB - WP - LM			CADD FILE NO.	EE9048PG	

SHOP BOOK

PURCHASED

DISTRIBUTION - WA - LB - WP - LM

CADD FILE NO.

EE9048PG

## CERTIFICATION DATA SHEET

Model#: 184TBDR7324 AP

WINDING#: BK8230 NONE 1

CONN. DIAGRAM: A-EE9048PG

ASSEMBLY: F3 OUT ODE BRKT  
RADIAL

OUTLINE: A-SS68830-875

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&10	5.60&7.50	3600	3525&3485	184TZ	DPAO	E	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60/60	230#230	30&42	ACROSS THE LINE	CONTINUOUS	F3	1.35/1.0	40	3300

FULL LOAD EFF: 84&80	3/4 LOAD EFF: 84	1/2 LOAD EFF: -	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 96.5&95.5	3/4 LOAD PF: 96.5	1/2 LOAD PF: -	77	CAP START CAP RUN	5.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15 LB-FT	205	20.5 LB-FT 137	27.7 LB-FT 185	80

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 LB-FT^2	0 LB-FT^2	0 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	GRAY (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6206	6205	POLYREX EM	SGL SPL EXT	1.125 x 3.47 IN SEK	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	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	

DATE: 07/08/2017 12:34:50 AM

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

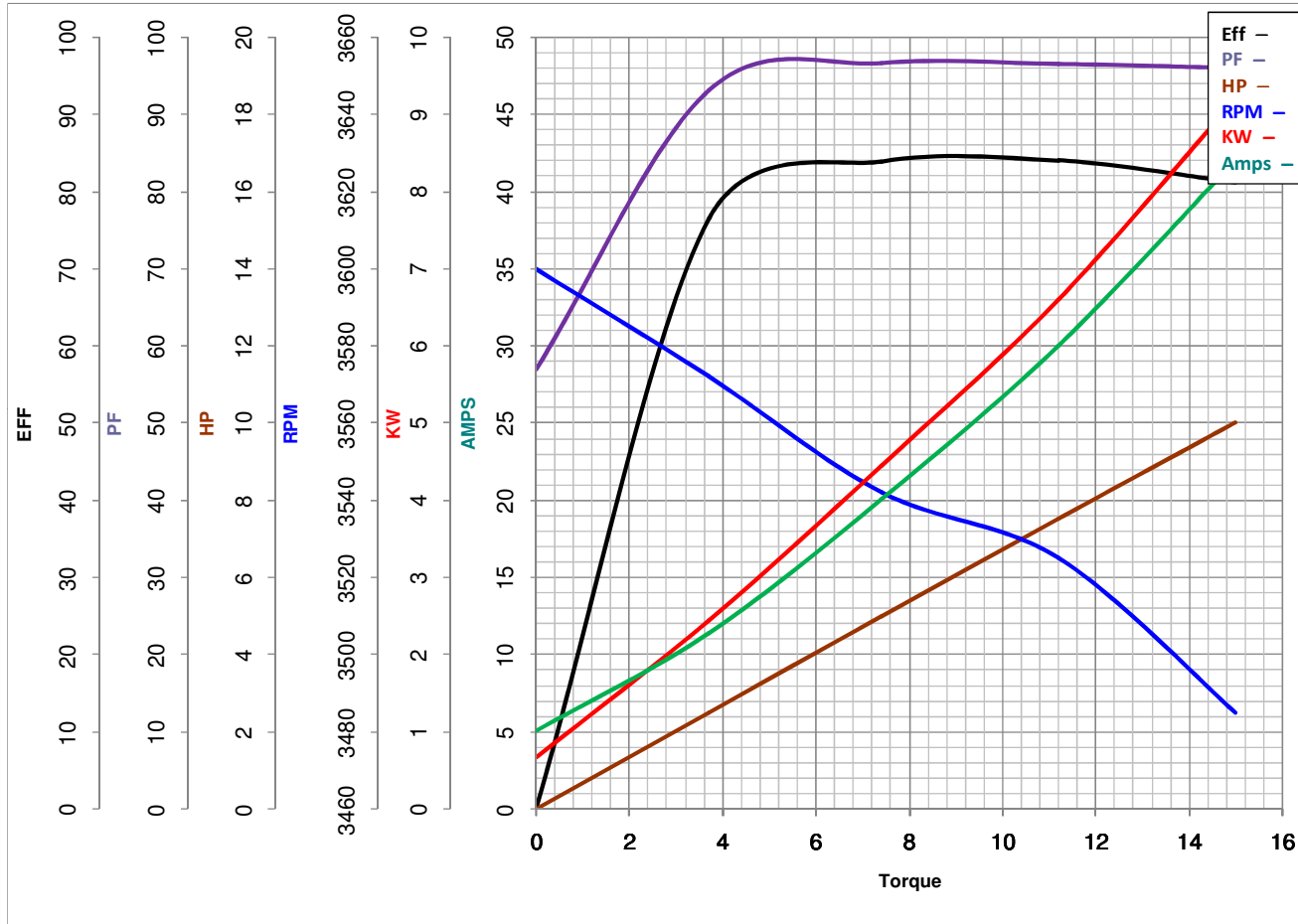
Volts

HP 7.5&10PHASE 1Model No 184TBDR732460

HZ

VOLTS 230&23010

HP

Catalog No Z313HZ 60&60RPM 3525&3485

Torque in Lb.Ft

FL TORQUE 15 Lb.Ft

BD TORQUE 27.7 Lb.FtLR TORQUE 20.5 Lb.Ft

WINDING BK8230-

FL AMPS 30

PU TORQUE 20.3 Lb.FtLR AMPS 205

Date 3/7/2019