

# PRODUCT INFORMATION PACKET

Model No: 145TBFR5305  
Catalog No: C282  
2,3600,TEFC,145TC,1/60/115/208-230  
Totally Enclosed Fan Cooled (TEFC)



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.

©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E



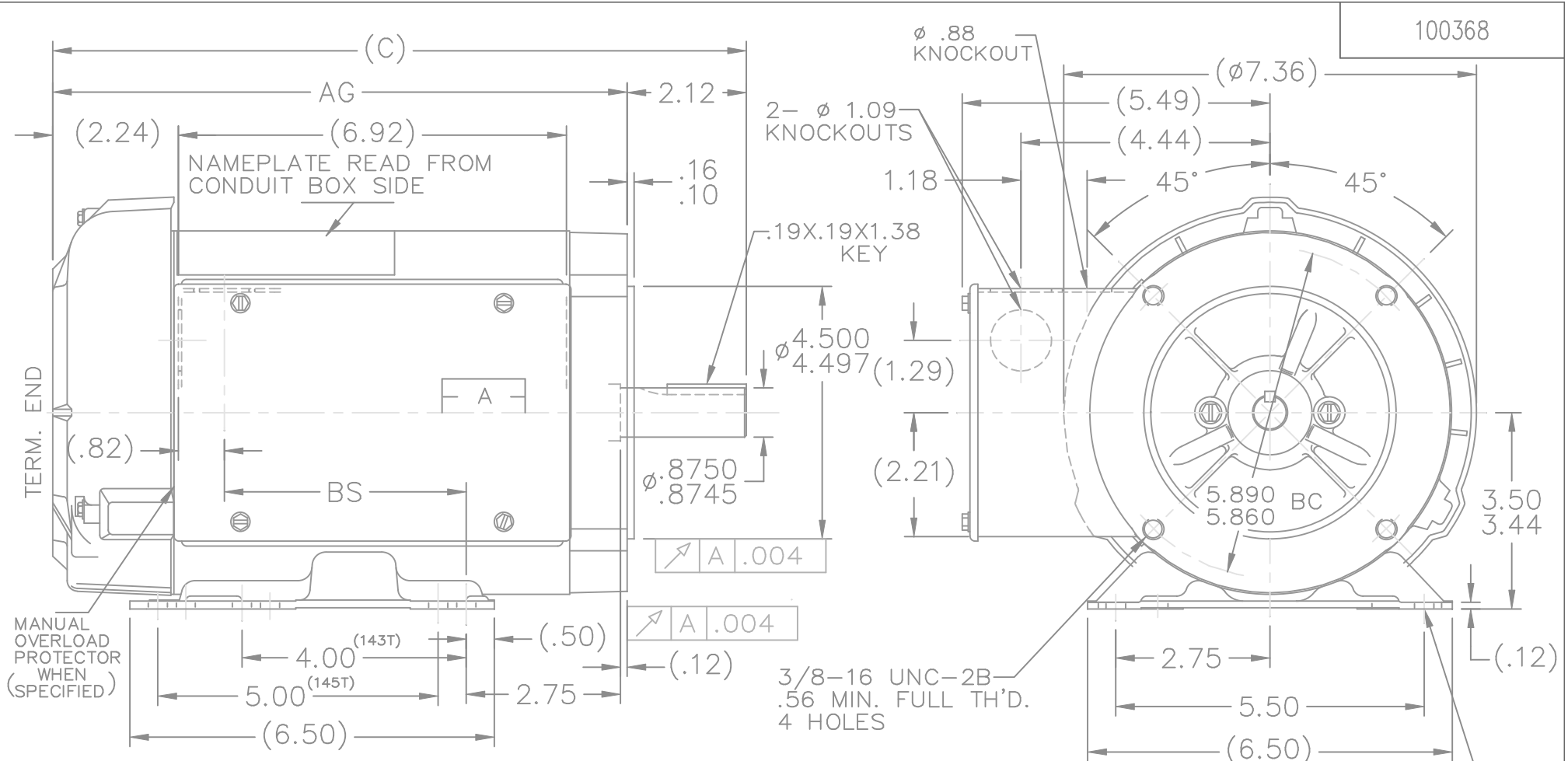
### Nameplate Specifications

Output HP	<b>2 Hp</b>	Output KW	<b>1.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>115/208-230 V</b>
Current	<b>16.6/9.4-8.3 A</b>	Speed	<b>3500 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>1</b>
Efficiency	<b>79 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>B</b>	Design Code	<b>L</b>
KVA Code	<b>J</b>	Frame	<b>145TC</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6205</b>
Opp Drive End Bearing Size	<b>6203</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>43</b>		

### Technical Specifications

Electrical Type	<b>Capacitor Start Capacitor Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>2</b>	Rotation	<b>Selective Counterclockwise</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>Ball</b>	Opp Drive End Bearing	<b>Ball</b>
Frame Material	<b>Rolled Steel</b>	Shaft Type	<b>T</b>
Overall Length	<b>13.37 in</b>	Frame Length	<b>8.06 in</b>
Shaft Diameter	<b>0.875 in</b>	Shaft Extension	<b>2.12 in</b>
Assembly/Box Mounting	<b>F1 Only</b>		
Outline Drawing	<b>A-100368-806</b>	Connection Diagram	<b>A-102006-51</b>

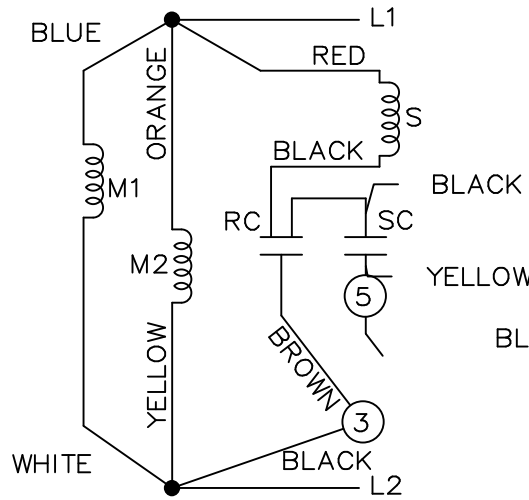
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 06/29/2018



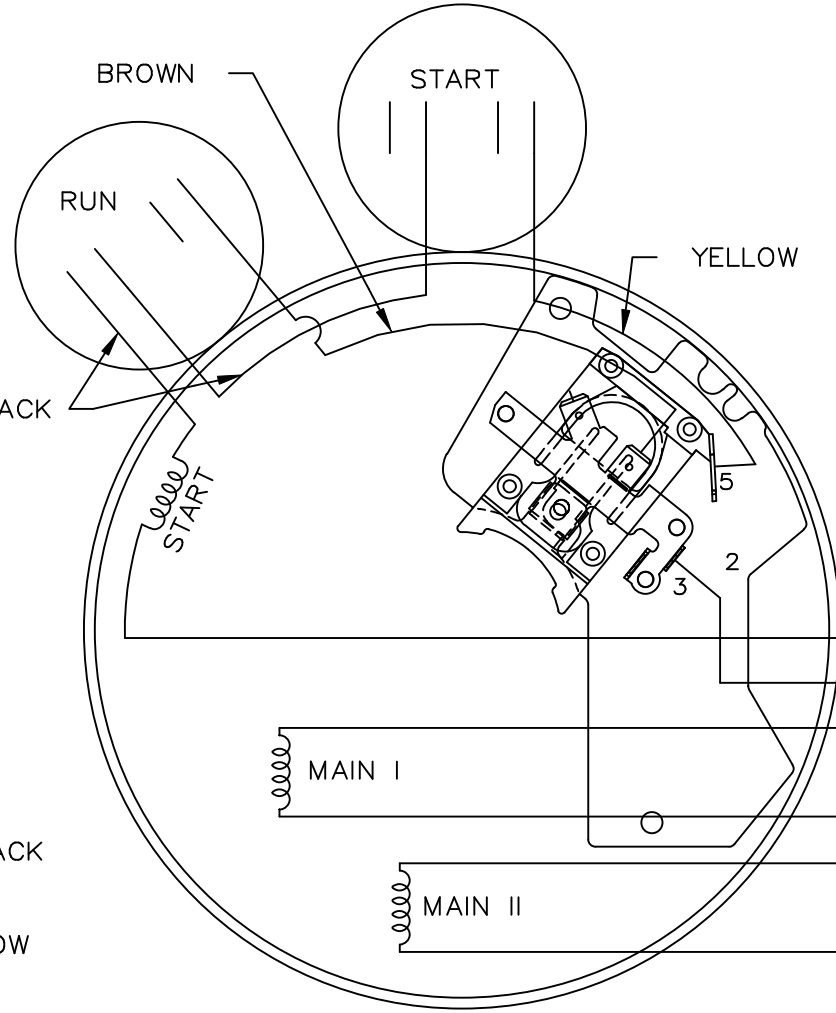
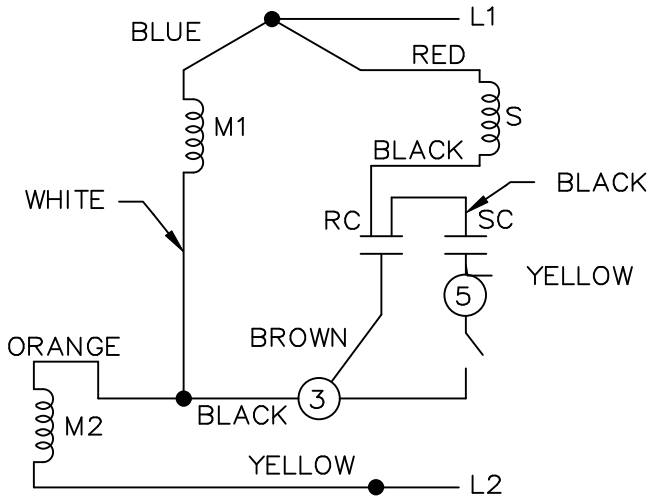
DASH	FR.	C	AG	BS	DASH	FR.	C	AG	BS
					806	56-80	13.37	11.25	5.31
					856	56-85	13.87	11.75	5.81
706	56-70	12.37	10.25	4.31	906	56-90	14.37	12.25	6.31
756	56-75	12.87	10.75	4.81	956	56-95	14.87	12.75	6.81

				TOLERANCES UNLESS SPECIFIED			DRAWN TJB 12-13-1999	
				DEC.	INCHES		CHK ML 12-14-1999	
				.X	±.1	APPD GK 12-14-1999	SCALE 3=8	
				.XX	±.03	REF	FMF	
3	ADDED .12 DIM TO C-FACE	CN 32473	ERH 11-10-2003	ML	.XXX ±.005	TITLE OUTLINE	PREV	
2	REDRAWN ON CAD		TJB 12-14-1999		.XXXX ±.0005	140 FR. - BB TEFC - C FACE - 1φ		
NO.	REVISION		BY & DATE	CHK	ANG ±7'30"	MAT'L.		
				RFP		FINISH		
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				DIST	WP	CAD FILE 100368	SIZE A	
						DRAWING NO. 100368	PAGE OF 3	
						REV. 3		

LOW VOLTAGE C.C.W.

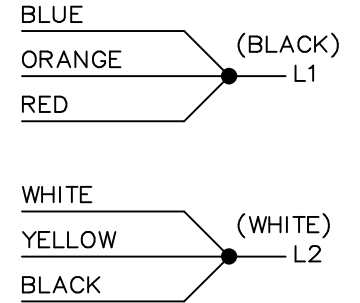


HIGH VOLTAGE C.C.W.

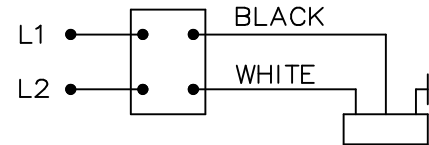
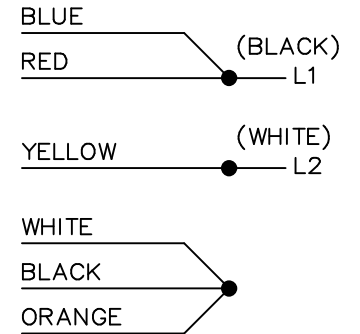


DUAL VOLTAGE CAPACITOR  
START-CAP RUN NO OVERLOAD  
SELECT ROTATION

LOW VOLTAGE C.C.W. ROTATION



HIGH VOLTAGE C.C.W. ROTATION



FOR C.W. ROTATION,  
EITHER VOLTAGE,  
INTERCHANGE RED WITH  
BLACK LEAD

			TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN DT 06-07-1996
			DEC.	INCHES		CHK MRB 06-16-1996
			.X	±.1	TITLE CONNECTION DIAGRAM	APPD GK 06-16-1996
			.XX	±.02		SCALE 5=8
9	ADDED CORD AND SWITCH VIEW MU37521	DRS 06-22-2001	.XXX	±.005		REF
8	REDRAWN ON CADD	DT 06-16-1996	.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 102006-51		SIZE A
			DIST WP			DRAWING NO. 102006-51
					PAGE OF 9	
					REV. 9	

CERTIFICATION DATA SHEET

Model#: 145TBFR5305 BD WINDING#: ZB203 NONE 3  
 CONN. DIAGRAM: A-102006-51 ASSEMBLY: F1 ONLY  
 OUTLINE: A-100368-806

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	3600	3500	145TC	TEFC	J	L

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	115/208-230	16.6/9.4-8.3	ACROSS THE LINE	CONTINUOUS	B3	1.15	40	3300

FULL LOAD EFF: 79	3/4 LOAD EFF: 76.4	1/2 LOAD EFF: 70.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 98.3	3/4 LOAD PF: 95.5	1/2 LOAD PF: 93.2	0	CAP START CAP RUN	4.2 / 2.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
2.98 LB-FT	122.6 / 61.3	7.37 LB-FT 247	7.73 LB-FT 259	60

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
C-FACE	BRAKE	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6205	6203						

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

\*  
N  
O  
T  
E  
S  
\*

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

DATE: 06/23/2017 01:34:40 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.