

# PRODUCT INFORMATION PACKET



Model No: 131601.00  
Catalog No: 131601.00  
Special Voltage Motor, 3 HP, 1 Ph, 50 Hz, 220 V, 1500 RPM, 184T Frame, TEFC



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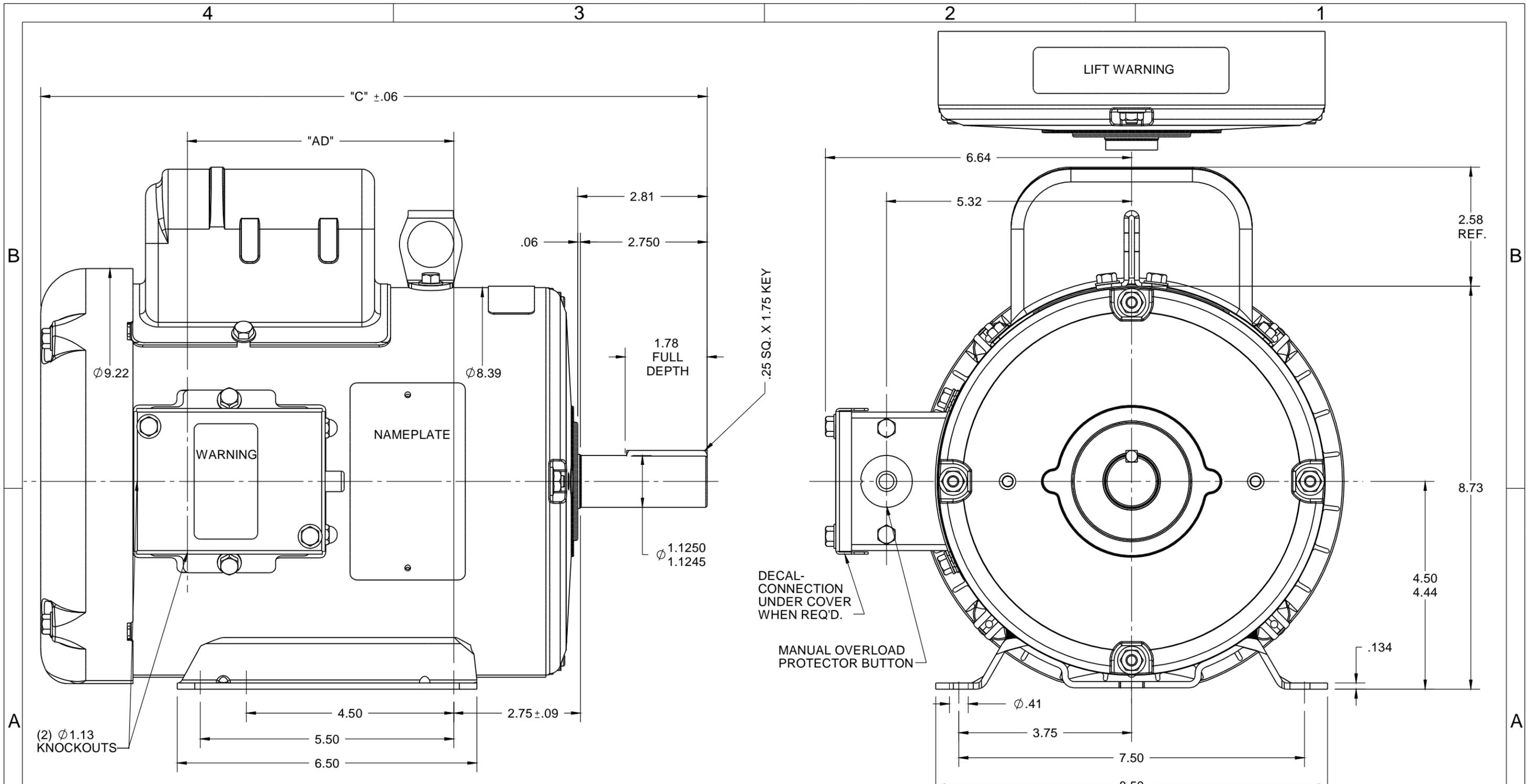
### Nameplate Specifications

Phase	1	Output HP	3 Hp
Output KW	2.2 kW	Voltage	220 V
Speed	1440 rpm	Service Factor	1.00
Frame	184T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Manual	Efficiency	75.5 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	15.9 A	Power Factor	79.8
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	No	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

### Technical Specifications

Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	16.96 in
Frame Length	11.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005410.01	Outline Drawing	035482-1150

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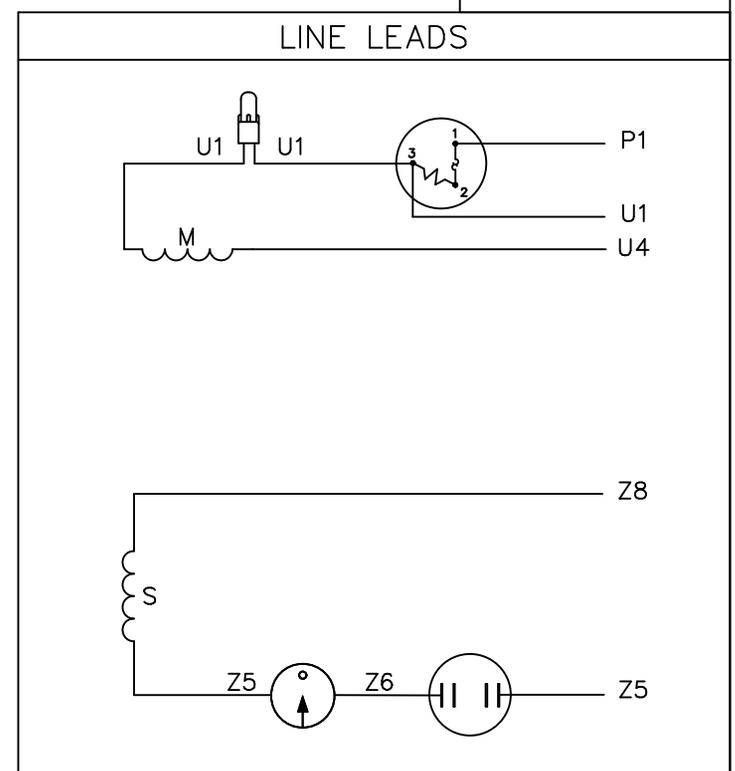
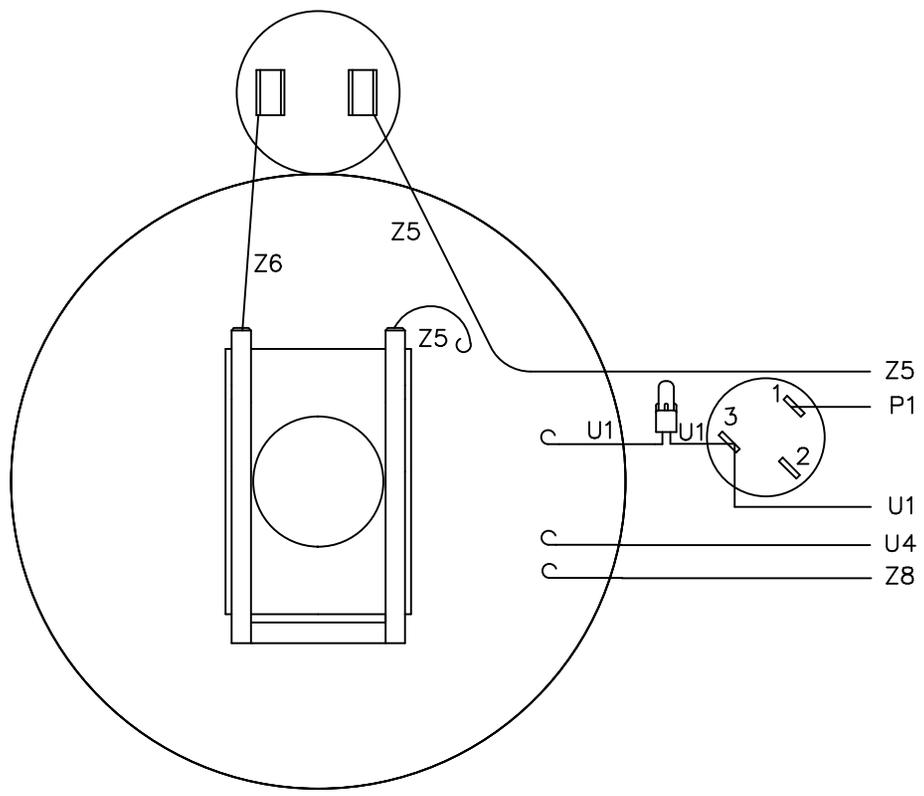


DASH NO.	"C"	"AD"
850	13.96	5.25
900	14.46	5.75
950	14.96	6.25
1000	15.46	6.75
1050	15.96	7.25
1100	16.46	7.75
1150	16.96	8.25
1200	17.46	8.75

GASKETS THROUGHOUT

DRAWING REVISION C	REVISION BY PST	DATE 1/20/15	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±0.5° .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 125 INCH mm 3.2 mm SHOWN IN [BRACKETS]	DRAWN BY JD	Regal Beloit America, Inc.	
ECO ECO-0069862	APPROVED BY ST	DATE 1/20/15	DATE 05/08/2012	DESCRIPTION <b>OUTLINE</b> TEFC - RIGID MOUNT		
ECO DESCRIPTION ADDED DASH# 1200 COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			APPROVED BY	MATERIAL GENERAL PURPOSE	PROCESS/FINISH	
			REFERENCE 035482	SIZE B	DRAWING NUMBER <b>035482LN</b>	SHEET 1 OF 1

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



ROTATION FACING LEAD END	L1	L2	JOIN & INSULATE
C.C.W.	P1	U4,Z5	U1,Z8
C.W.	P1	U4,Z8	U1,Z5

TOLERANCES UNLESS OTHERWISE SPECIFIED  
DECIMALS

**LEESON** ELECTRIC CORPORATION

				.00	± .01	DRAWN DBT 06/05/97	TITLE EXTERNAL WIRING DIAGRAM TYPE "C" W/PROTECTOR		
				.000	± .005	CH'K'D. KH 06/05/97			
01	ADDED PRESSURE CONNECTOR TO U1 PER ASSY	RDW	07/15/97	.0000	± .0005	APPR. KMM 06/10/97			
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE 1=1	MAT'L. DECAL - 080682		
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				ANGLES	± 1/2"	REF. 5403-01	FINISH LEESON	SIZE A	DRAWING NO. 005410-01
				INCH/MM		FMF 115100	CANADA		



**CERTIFICATION DATA SHEET**

**1051 CHEYENNE AVE.  
GRAFTON, WI 53024  
PH. 262-377-8810**

**CONN. DIAGRAM:** 005410.01

**CATALOG #:** 131601.00

**OUTLINE:** 035482-1150

**MOUNTING:** F1 ONLY

**WINDING #:** C8415 FR 4 A

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1500	1440	184T	TEFC	J	NO DESIGN CODE

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	50	220	15.9	ACROSS THE LINE	CONTINUOUS	F4	1.0	40

FULL LOAD EFF:	75.5	3/4 LOAD EFF:	75.6	1/2 LOAD EFF:	71.5	GTD. EFF	72	ELEC. TYPE	CAP START IND RUN
FULL LOAD PF:	79.8	3/4 LOAD PF:	72.7	1/2 LOAD PF:	60.9				

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
10.8 LB-FT	101	30 LB-FT 278 %	23.9 LB-FT 221 %	119.6

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.561 LB-FT^2	0.6 LB-FT^2	10 SEC.	0	101 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 - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6206	6205						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	MANUAL	NONE	NONE	NONE	FALSE	NONE VOLTS

\*  
N  
O  
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E  
S

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



**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

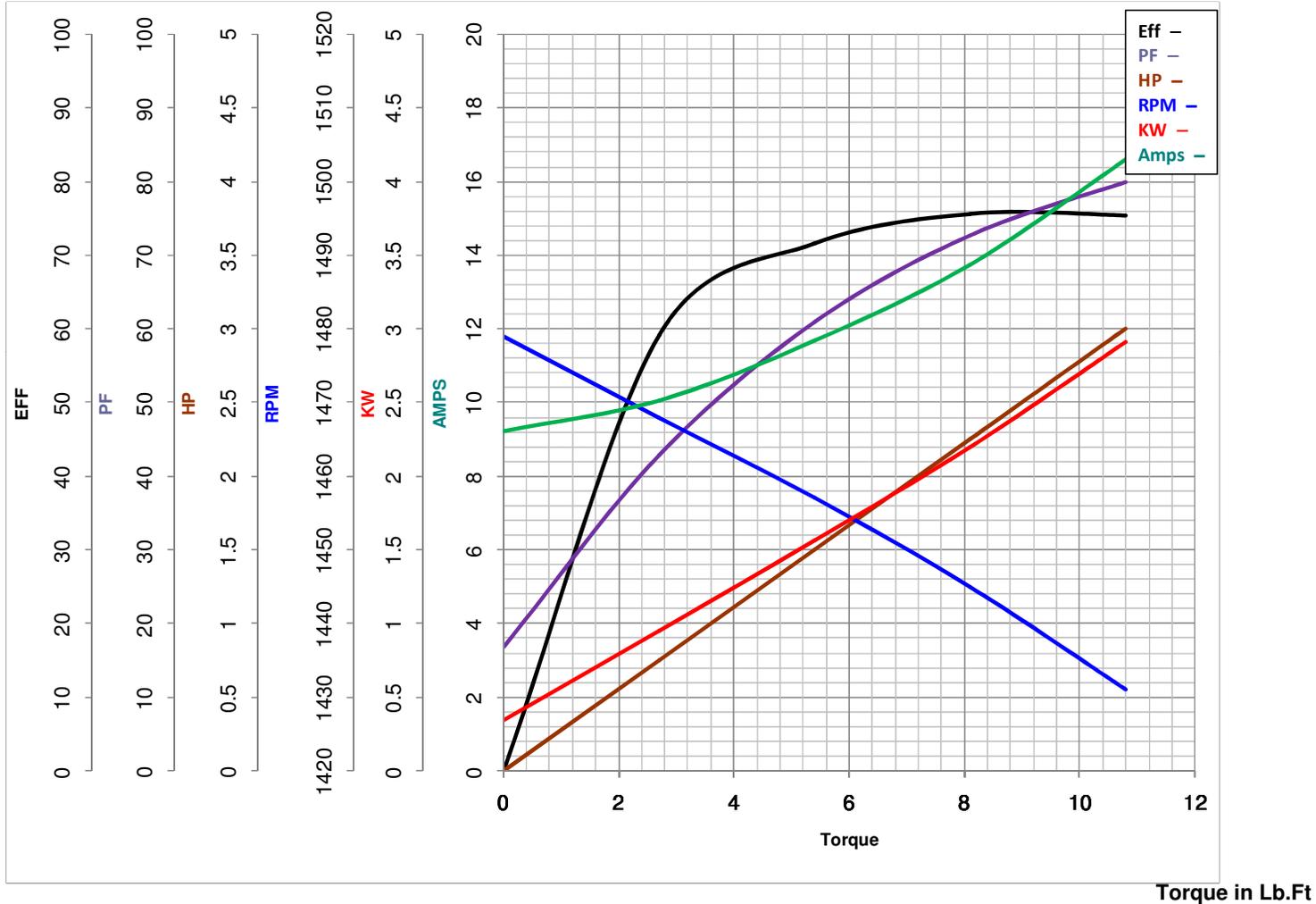
Curve at 220 Volts      HP 3.00      PHASE 1  
50 HZ  
3 HP      VOLTS 220

Model No 131601.00

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HZ 50

RPM 1440



Torque in Lb.Ft

FL TORQUE 10.8 Lb.Ft  
 BD TORQUE 23.9 Lb.Ft  
 LR TORQUE 30 Lb.Ft

FL AMPS 15.9  
 PU TORQUE 20.4 Lb.Ft  
 LR AMPS 101

WINDING C8415-4

Date 4/12/2018

## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 131601.00

(Model No. may contain prefix and/or suffix characters)

Catalog No : 131601.00

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**