

# PRODUCT INFORMATION PACKET



Model No: 102908.00

Catalog No: 102908.00

0.50 HP General Purpose Motor, 1 phase, 1800 RPM, 115/208-230 V, 56 Frame, TEFC  
General Purpose Motors



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2021 Regal Rexnord Corporation, All Rights Reserved. MC017097E



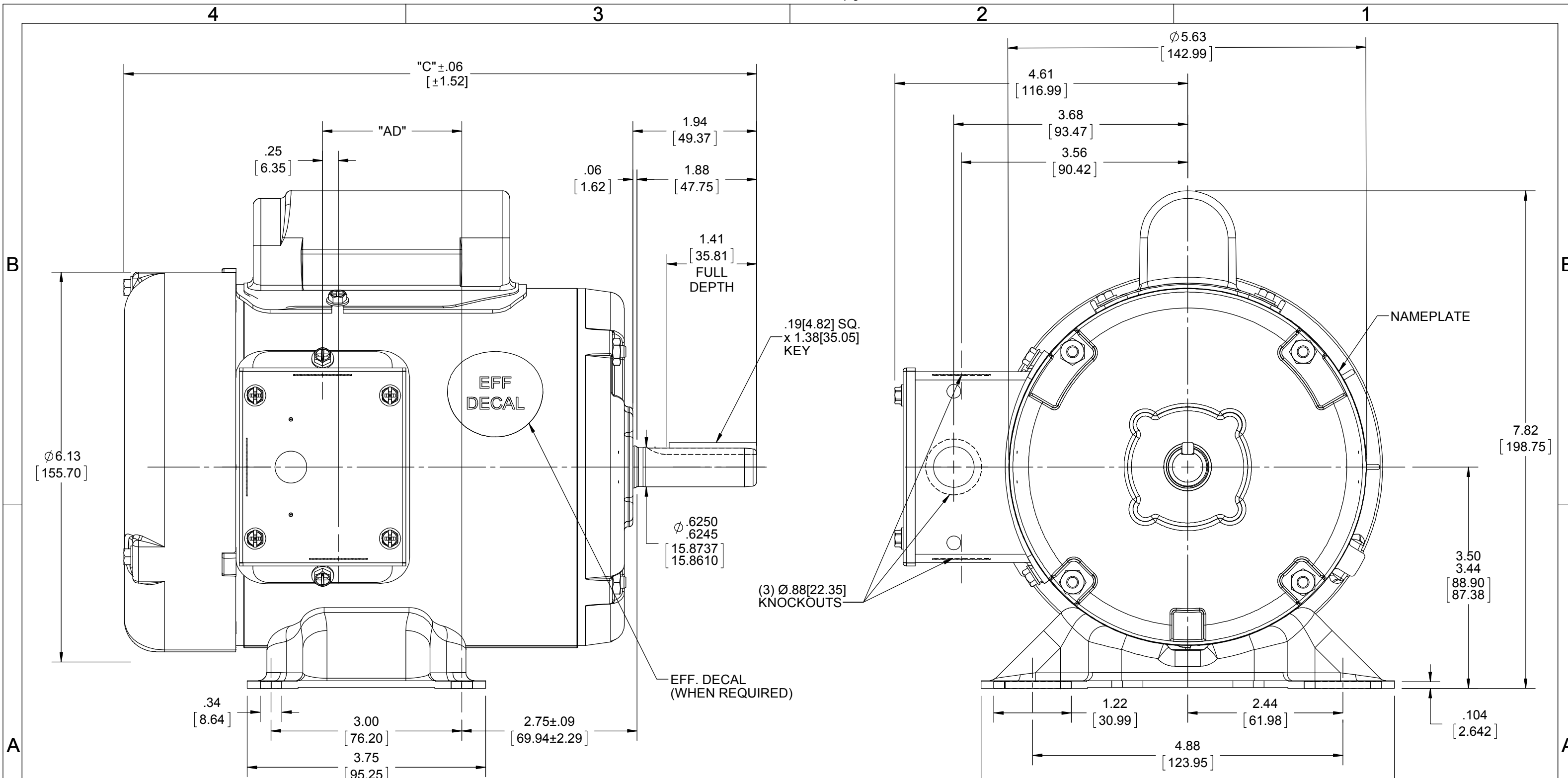


### Nameplate Specifications

Output HP	<b>0.50 Hp</b>	Output KW	<b>0.37 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>115/208-230 V</b>
Current	<b>8.0/4.4-4.0 A</b>	Speed	<b>1725 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>1</b>
Efficiency	<b>66 %</b>	Power Factor	<b>61</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>O</b>	KVA Code	<b>L</b>
Frame	<b>S56</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>Automatic</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6203</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Capacitor Start Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Selective Counterclockwise</b>
Resistance Main	<b>4.293 Ohms</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>NEMA 56</b>	Overall Length	<b>10.69 in</b>
Frame Length	<b>6.00 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>1.88 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>005003.52</b>	Outline Drawing	<b>031631-600</b>



DASH NO.	"C"	"AD"
500	9.70[246.38]	1.94[49.27]
525	9.95[252.73]	2.19[55.62]
550	10.20[259.08]	2.44[61.97]
575	10.45[265.43]	2.69[68.32]
600	10.70[271.78]	2.94[74.67]
625	10.95[278.13]	3.19[81.02]
650	11.20[284.48]	3.44[87.37]
675	11.45[290.83]	3.69[93.72]

NOTE:-  
1) GASKET THROUGHOUT.

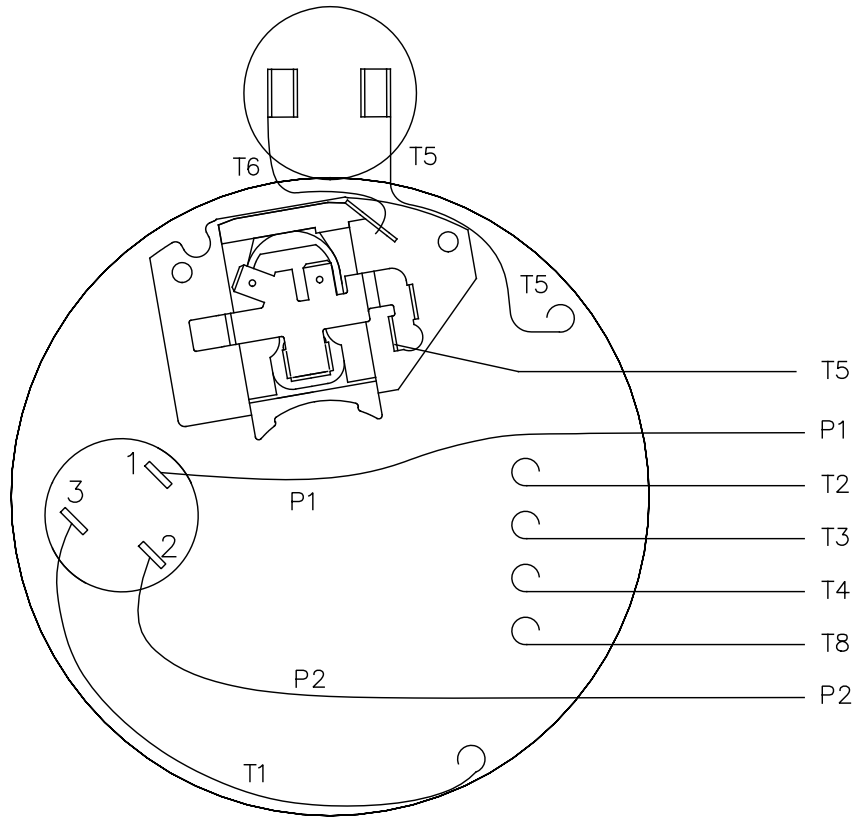
DRAWING REVISION C	REVISION BY A SUPPANAVAR	DATE 10/24/2018
ECO ECO-0163252	APPROVED BY D SURYAWANSHI	DATE 03-08-2019
ECO DESCRIPTION <b>OUTLINE CONVERSION PROJECT</b> COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF 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.		

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] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 125 INCH 3.2 mm SHOWN IN [BRACKETS]			

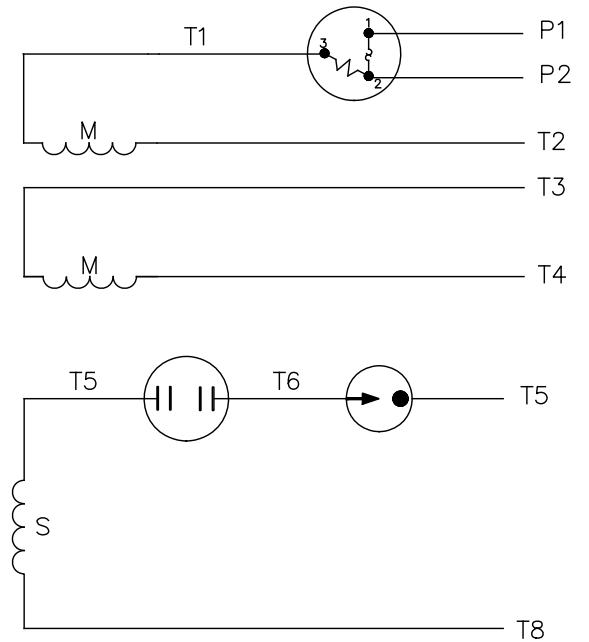
DRAWN BY PG	DATE 5/30/01
APPROVED BY	DATE
REFERENCE 030391	THIRD ANGLE PROJECTION

<b>REGAL</b> ™ Regal Beloit America, Inc.	
DESCRIPTION <b>OUTLINE</b> S56 FRAME RIGID MOUNT - TEFC	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER <b>031631</b>
SHEET 1 OF 1	

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



	ROTATION FACING LEAD END	L1	L2	JOIN	INSULATE SEPARATELY
HIGH VOLT	C.C.W.	P1	T4 T5	T2, T3 T8	P2
	C.W.	P1	T4 T8	T2, T3 T5	P2
LOW VOLT	C.C.W.	P1	T2, T4 T5	P2, T3 T8	--
	C.W.	P1	T2, T4 T8	P2, T3 T5	--

		TOLERANCES UNLESS SPECIFIED		REGAL™ Regal Beloit America, Inc.		DRAWN PG 6/8/01			
		DEC.	INCHES			CHK			
		.X	±.1			APPD			
		.XX	±.01	TITLE		SCALE 1=1			
02	CHANGED CAMPANY LOGO ONLY	AS	11/08/16	.XXX	±.005	REF 005003-01			
01	MOVED T5 TO "INSIDE" SWITCH TERMINAL	PG	8/2/01	CD	.XXXX ±.0005	MAT'L. DUAL VOLTAGE - DUAL ROTATION			
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH DECAL - 004011			
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	00500352	SIZE A	DRAWING NO. 005003-52	REV. 02
				DIST					



**CERTIFICATION DATA SHEET**

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

**CATALOG #:** 102908.00

**CONN. DIAGRAM:** 005003.52

**OUTLINE:** 031631-600

**MOUNTING:** F1 ONLY

**WINDING #:** CE484212 FR 3 D

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1725	S56	TEFC	L	O

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	8/4.4-4	ACROSS THE LINE	CONTINUOUS	F3	1.15	40

FULL LOAD EFF:	66	3/4 LOAD EFF:	62.3	1/2 LOAD EFF:	54.9	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	61	3/4 LOAD PF:	52.7	1/2 LOAD PF:	42.5	62		CAP START IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24.09 OZ-FT	41.4 / 20.7	84.1 OZ-FT 350 %	64.2 OZ-FT 268 %	72.2

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	-1 LB-FT^2	0 LB-FT^2	0 SEC.	0	25 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	MULTEMP SRL	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

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

\*  
N  
O  
T  
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

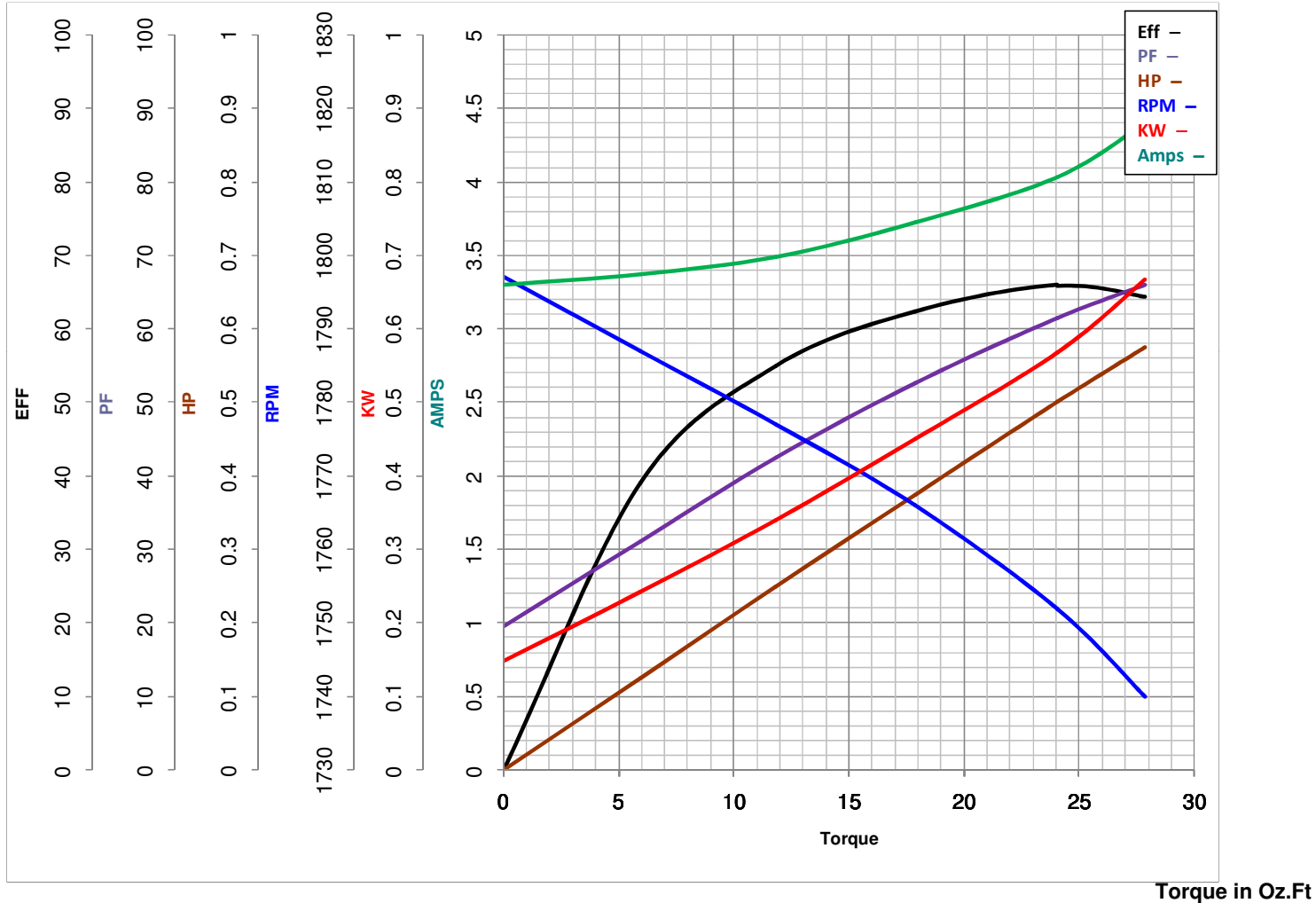


**LEESON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 102908.00

Catalog No 102908.00

Curve at 230 Volts      HP 0.50      PHASE 1  
60 HZ  
0.5 HP      VOLTS 115/208-230  
HZ 60      RPM 1725



<b>FL TORQUE</b>	<u>24.09</u> Oz.Ft	<b>FL AMPS</b>	<u>8/3.8-4</u>
<b>BD TORQUE</b>	<u>64.2</u> Oz.Ft	<b>PU TORQUE</b>	<u>54.1</u> Oz.Ft
<b>LR TORQUE</b>	<u>84.1</u> Oz.Ft	<b>LR AMPS</b>	<u>20.7</u>
<b>WINDING</b>	CE484212-3	<b>Date</b>	4/11/2018