

PRODUCT INFORMATION PACKET



Model No: 102872.00

Catalog No: 102872.00

General Purpose Motor, 0.50 HP, 1 Ph, 60 Hz, 115/230 V, 3600 RPM, S56C Frame, TEFC

Operational at 115/208-230 V @60HZ



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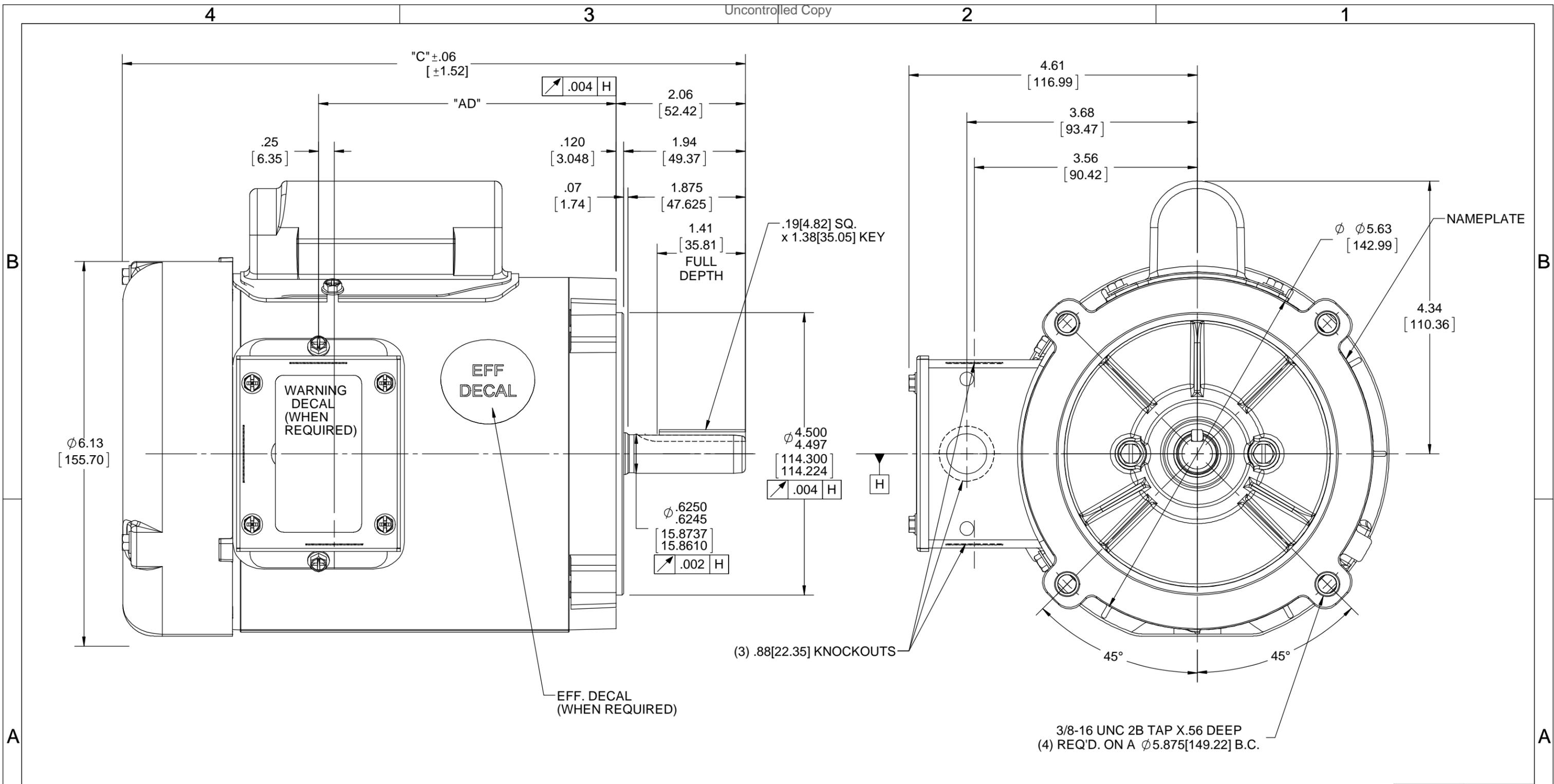


Nameplate Specifications

Phase	1	Output HP	0.50 Hp
Output KW	0.37 kW	Voltage	115/230 V
Speed	3450 rpm	Service Factor	1.15
Frame	S56C	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Manual	Efficiency	66 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	7.0/3.5 A	Power Factor	68
Duty	Continuous	Insulation Class	B
Design Code	N	KVA Code	L
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	4.08 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	9.94 in
Frame Length	5.25 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005003.52	Outline Drawing	032136-525



(3) .88[22.35] KNOCKOUTS

3/8-16 UNC 2B TAP X.56 DEEP
(4) REQ'D. ON A Ø5.875[149.22] B.C.

GASKETS THROUGHOUT

ORACLE REV	004
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DASH NO.	"C"	"AD"
525	9.95[252.73]	4.75[120.65]
600	10.70[271.78]	5.50[139.70]

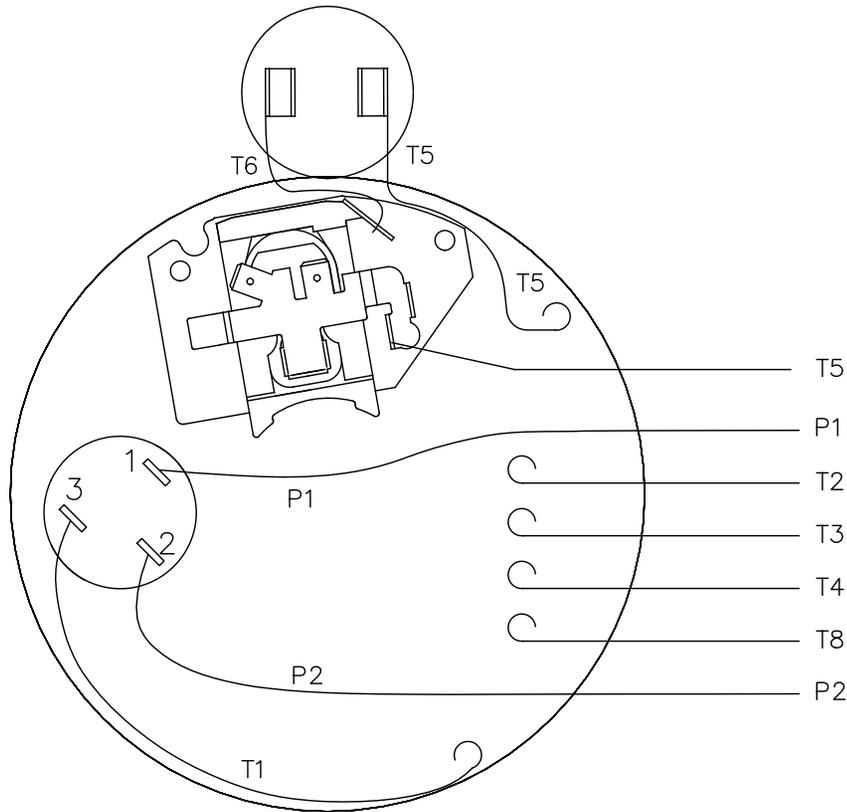
DRAWING REVISION	REVISION BY	DATE
A		
ECO	APPROVED BY	DATE
ECO-0156721		
ECO DESCRIPTION		
OUTLINE CONVERSION PROJECT		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±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]			

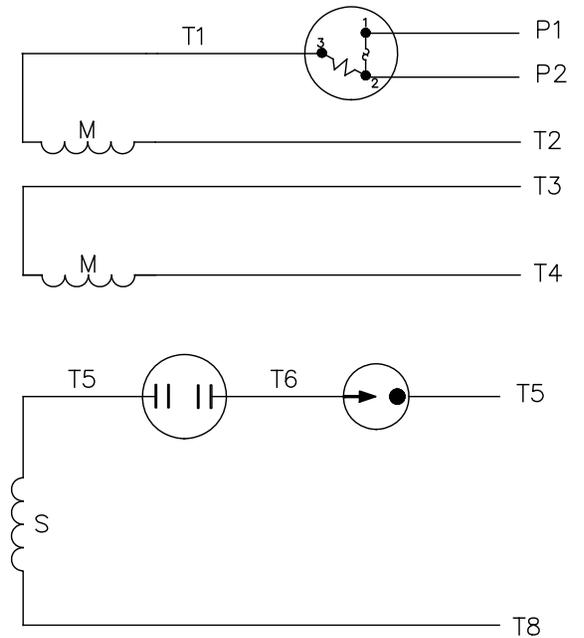
DRAWN BY	H. ADIKE
DATE	10/22/2018
APPROVED BY	JD
DATE	11/16/2018
REFERENCE	031649
THIRD ANGLE PROJECTION	

		Regal Beloit America, Inc.	
DESCRIPTION		OUTLINE	
S56C FRAME "C" FACE MOUNT - TEFC			
MATERIAL		PROCESS/FINISH	
SIZE	B	DRAWING NUMBER	032136
		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**

CONN. DIAGRAM: 005003.52

CATALOG #: 102872.00

OUTLINE: 032136-525

MOUNTING: F1 ONLY

WINDING #: CE482235 FR 3 B

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	3600	3450	S56C	TEFC	L	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	7/3.4-3.5	ACROSS THE LINE	CONTINUOUS	B3	1.15	40

FULL LOAD EFF:	66	3/4 LOAD EFF:	64.4	1/2 LOAD EFF:	57	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	68	3/4 LOAD PF:	59.4	1/2 LOAD PF:	48.7	62		CAP START IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
12 OZ-FT	41 / 20.5	34.6 OZ-FT 288 %	35.2 OZ-FT 293 %	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	0.018 LB-FT^2	0 LB-FT^2	0 SEC.	0	19 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	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	MANUAL	NONE	NONE	NONE	FALSE	NONE VOLTS

*
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

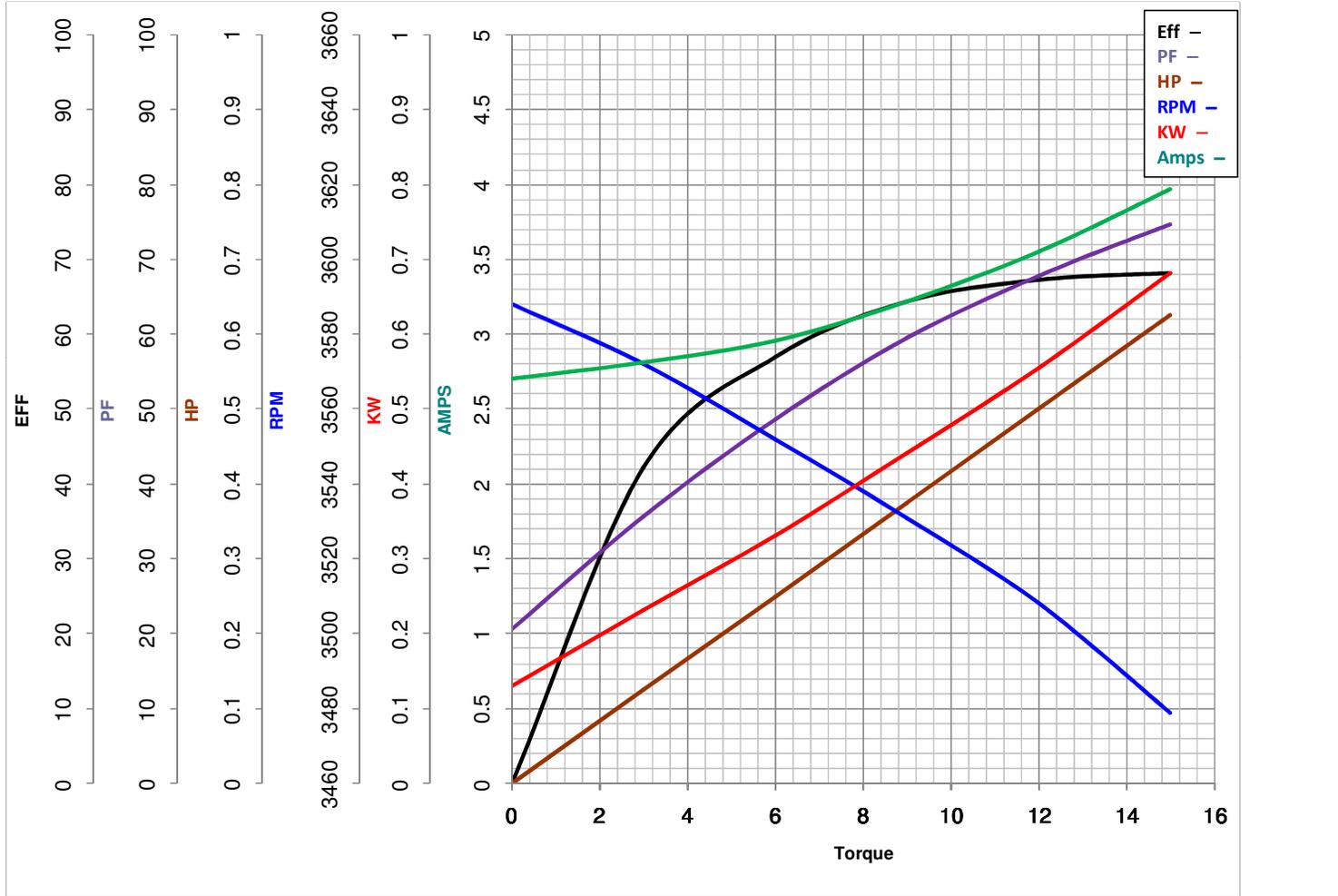


LEESON ELECTRIC CORPORATION
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 102872.00

Catalog No 102872.00

Curve at 230 Volts HP 0.50 PHASE 1
60 HZ
0.5 HP VOLTS 115/208-230
HZ 60 RPM 3450



FL TORQUE	<u>12</u>	Oz.Ft	FL AMPS	<u>7/3.4-3.5</u>
BD TORQUE	<u>35.2</u>	Oz.Ft	PU TORQUE	<u>31.5</u> Oz.Ft
LR TORQUE	<u>34.6</u>	Oz.Ft	LR AMPS	<u>20.5</u>
WINDING	CE482235-3		Date	5/2/2018