

# PRODUCT INFORMATION PACKET



Model No: E100004.00

Catalog No: E100004.00

..1/2HP..1725RPM.S56.DP.115/230V.1PH.60HZ.CONT.40C.1.25SF.RIGID.....GENERAL PURPOSE.MANUAL.....

General Purpose Motors



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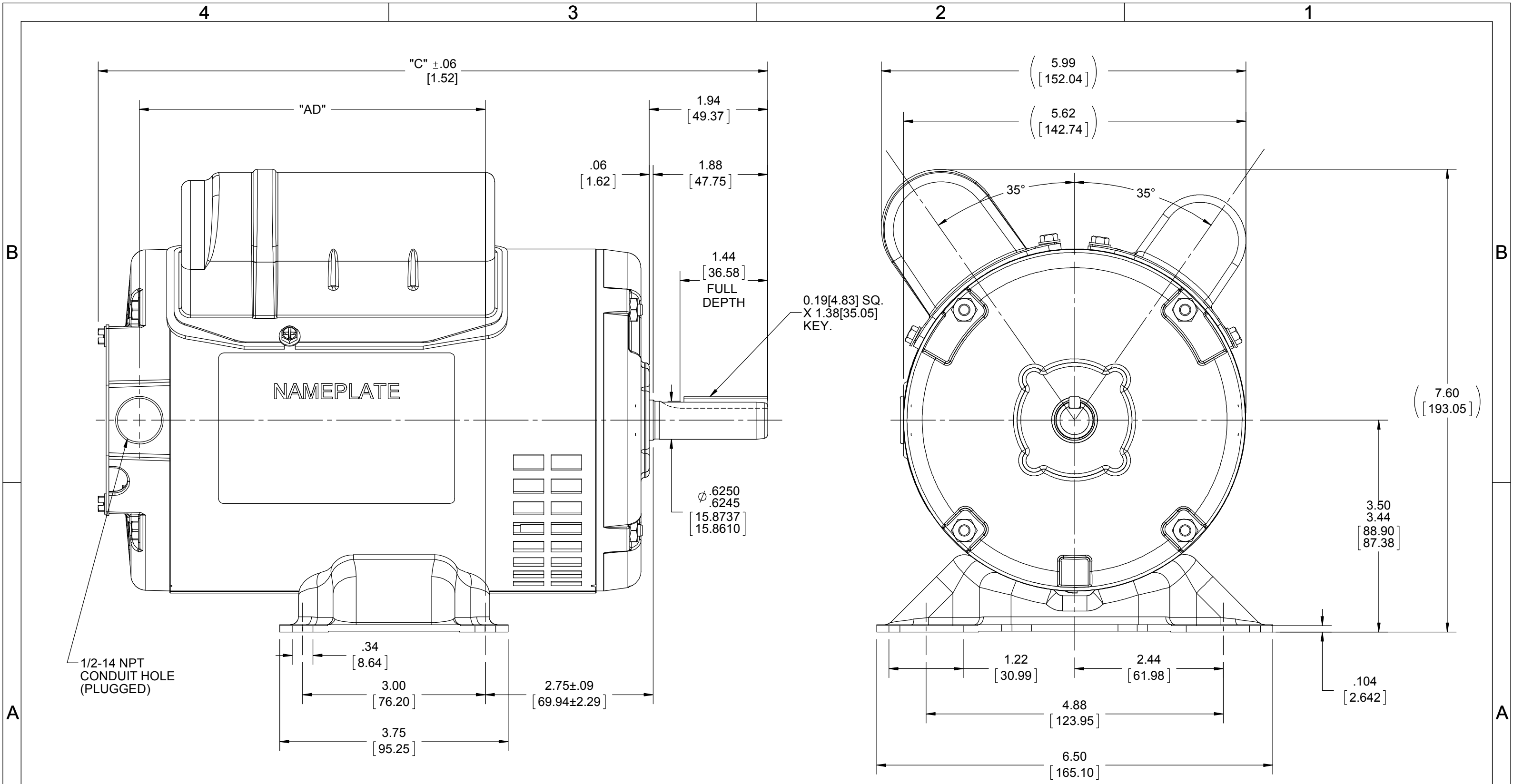


### Nameplate Specifications

Output HP	<b>0.50 Hp</b>	Output KW	<b>0.37 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>115/230 V</b>
Current	<b>4.6/2.3 A</b>	Speed	<b>1745 rpm</b>
Service Factor	<b>1.25</b>	Phase	<b>1</b>
Efficiency	<b>76.2 %</b>	Power Factor	<b>91.6</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>N</b>	KVA Code	<b>K</b>
Frame	<b>S56</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>Manual</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>Y</b>	IP Code	<b>22</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Capacitor Start Capacitor Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Selective Counterclockwise</b>
Resistance Main	<b>0 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>11.49 in</b>
Frame Length	<b>7.50 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>005053.40</b>	Outline Drawing	<b>SS404354-750</b>



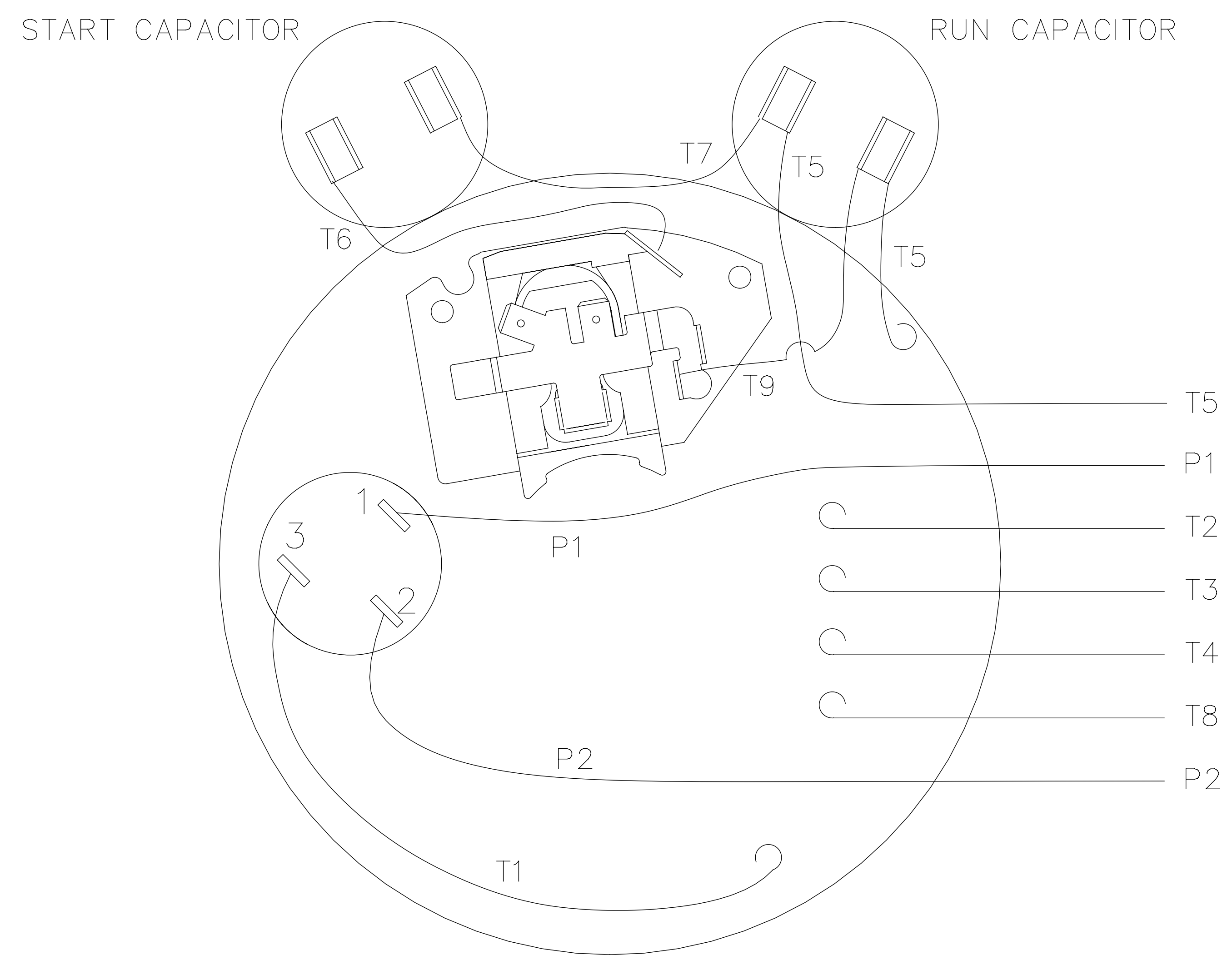
DASH NO.	"C"	"AD"
700	10.98[278.89]	5.68[144.27]
750	11.48[291.59]	6.18[156.97]

DRAWING REVISION <b>A</b>	REVISION BY <b>S SAHOO</b>	DATE <b>02/04/2019</b>
ECO <b>ECO-0161326</b>	APPROVED BY <b>D. SURYAWANSHI</b>	DATE <b>02/06/2019</b>
ECO DESCRIPTION <b>OUTLINE CONVERSION PROJECT</b>		
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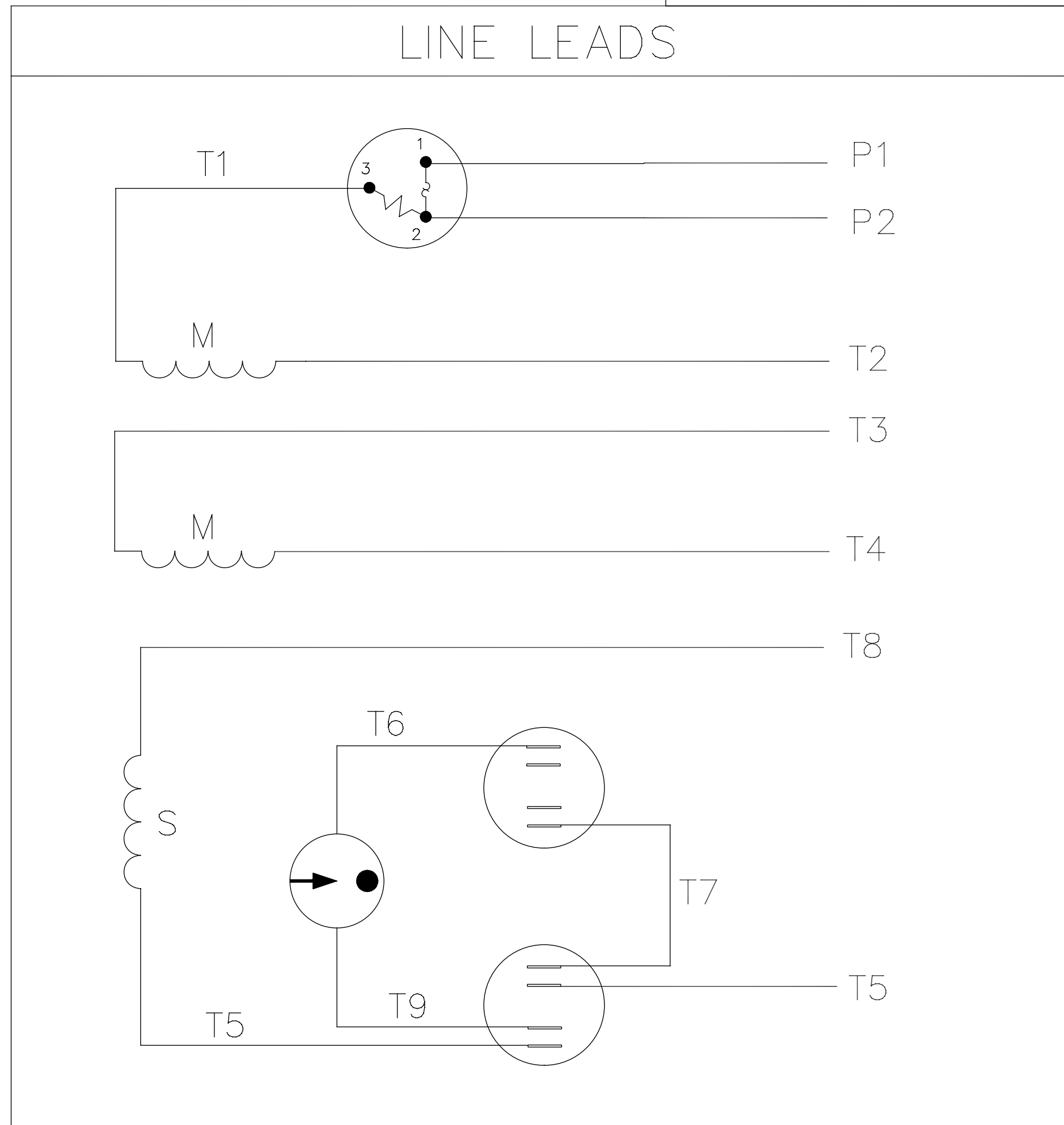
TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51]			
MACHINED SURFACES: 200 INCH/mm 5.1			
mm SHOWN IN [BRACKETS]			

DRAWN BY <b>S SAHOO</b>
DATE <b>02/04/2019</b>
APPROVED BY <b>D. SURYAWANSHI</b>
DATE <b>02/06/2019</b>
REFERENCE <b>SS404118</b>
THIRD ANGLE PROJECTION

<b>REGAL</b> ™ Regal Beloit America, Inc.	
DESCRIPTION	<b>OUTLINE</b> S56 FRAME RIGID MOUNT-DRIP PROOF
MATERIAL	PROCESS/FINISH
SIZE <b>B</b>	DRAWING NUMBER <b>SS404354</b>
	SHEET 1 OF 1



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END



	ROTATION FACING LEAD END	L1	L2	JOIN	INSULATE SEPARATE
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	
		DEC.	INCHES
		.X	±.1
		.XX	±.01
		.XXX	±.005
A	CHANGED LOGO TO REGAL	PST	2/1/16
NO.	REVISION	BY & DATE	CHK
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		DIST	

**Regal Beloit America, Inc.**

DRAWN PG 7/2/02	
CHK	
APPD	
TITLE	EXTERNAL WIRING DIAGRAM TYPE "K" W/PROTECTOR
SCALE	5=8
REF	005053.01
MAT'L.	DUAL VOLTAGE - DUAL ROTATION
FINISH	
CAD FILE	00505340
SIZE	DRAWING NO.
A	005053-40
REV.	A



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

CATALOG #: E100004.00

CONN. DIAGRAM: 005053.40

OUTLINE: A-SS404118-750

WINDING #: BE484110 3

MOUNTING: F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1745	S56	DP	K	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/230	4.6/2.3	ACROSS THE LINE	CONTINUOUS	B3	1.25	40

FULL LOAD EFF:	76.2	3/4 LOAD EFF:	73.7	1/2 LOAD EFF:	66	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	91.6	3/4 LOAD PF:	89.8	1/2 LOAD PF:	86.1	76.2	CAP START CAP RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24.4 OZ-FT	35.4 / 17.7	75.6 OZ-FT 310 %	60.4 OZ-FT 248 %	25

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	10 SEC.		23 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	GREEN - LEESON WATTS AVER

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	MULTEMP SRL	STANDARD 56	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

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\*

<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



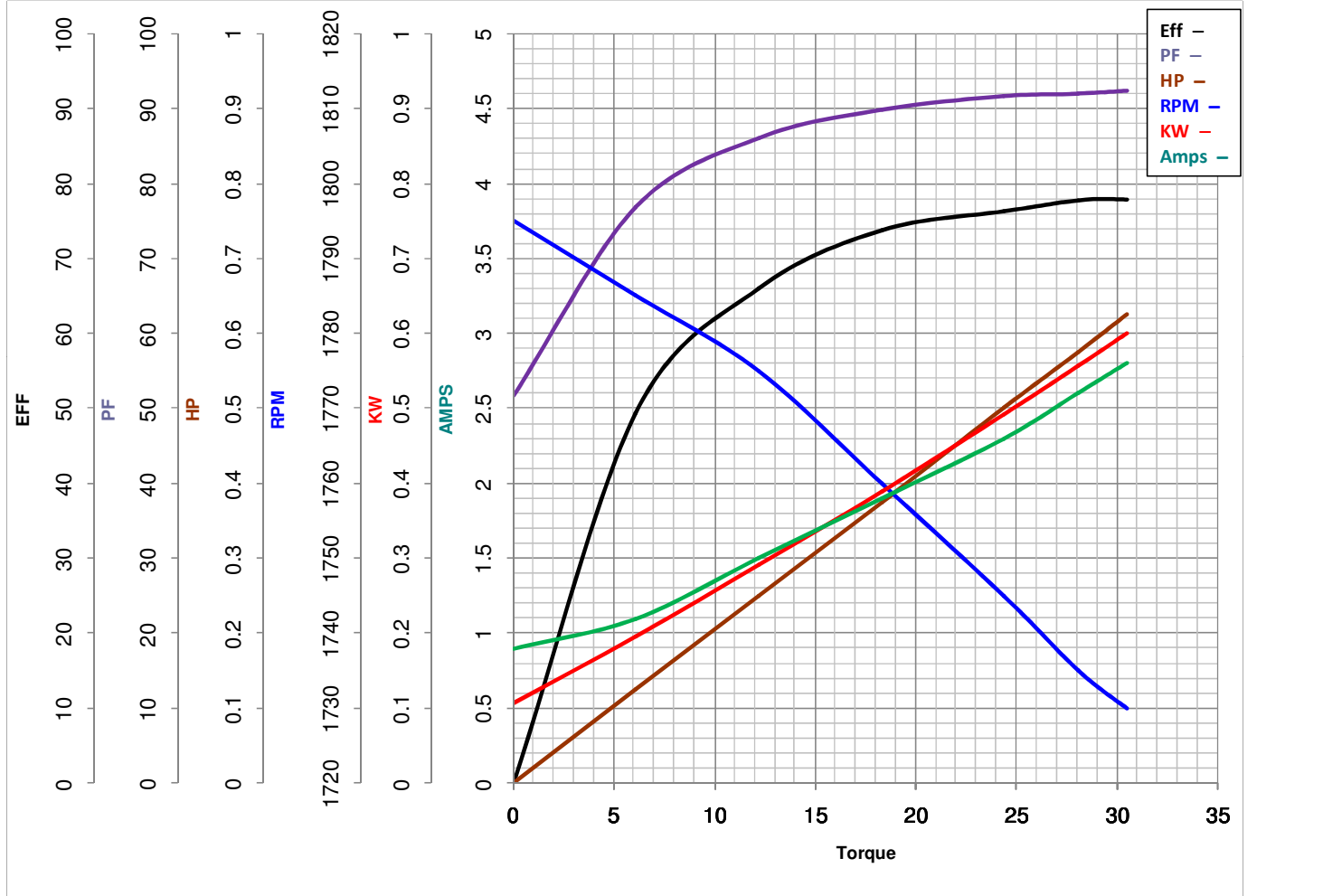
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No E100004.00

Curve at 230 Volts      HP 0.50      PHASE 1  
60 HZ  
0.5 HP      VOLTS 115/230

Catalog No E100004.00

HZ 60      RPM 1745



Torque in Oz.Ft

FL TORQUE 24.4 Oz.Ft  
 BD TORQUE 60.4 Oz.Ft  
 LR TORQUE 75.6 Oz.Ft

FL AMPS 4.6/2.3  
 PU TORQUE 75.4 Oz.Ft  
 LR AMPS 17.7

WINDING BE484110-3

Date 3/21/2018