

# PRODUCT INFORMATION PACKET



Model No: 102020.00

Catalog No: 102020.00

General Purpose Motor, 0.50 HP, 1 Ph, 60 Hz, 115/230 V, 3600 RPM, 48 Frame, TEFC

Operational at 115/208-230 V @60HZ



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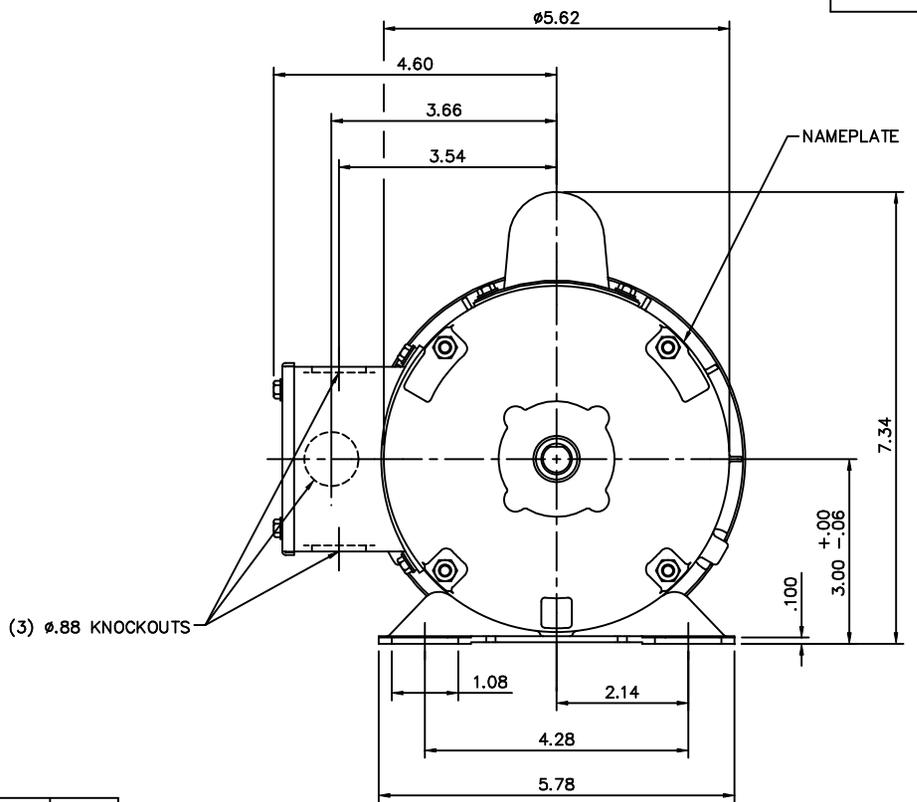
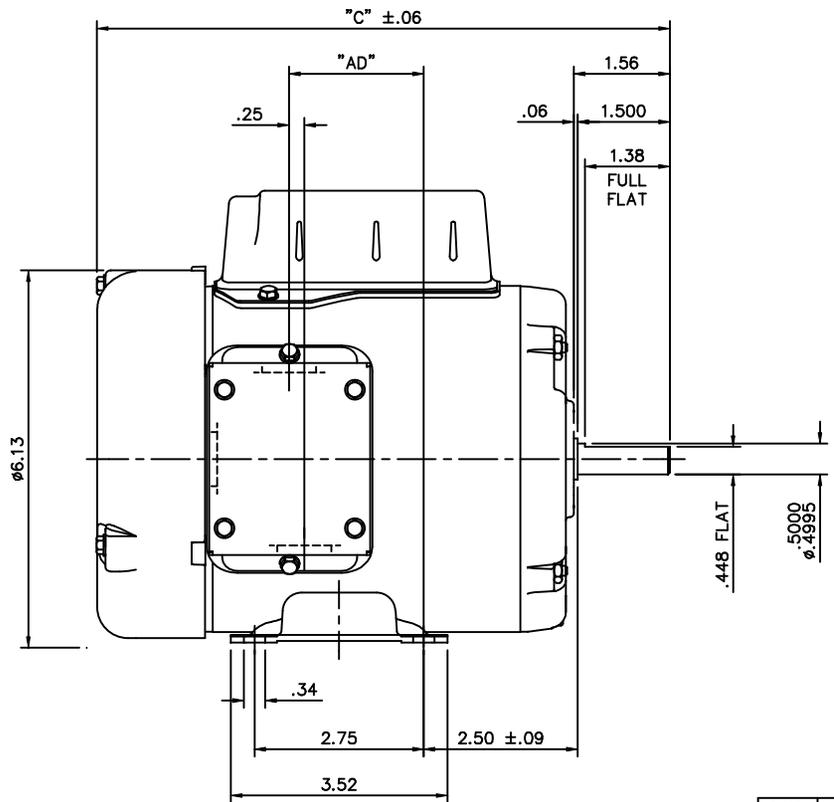


### Nameplate Specifications

Phase	1	Output HP	0.50 Hp
Output KW	0.37 kW	Voltage	115/230 V
Speed	3450 rpm	Service Factor	1.15
Frame	48	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	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	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 48	Overall Length	9.31 in
Frame Length	5.00 in	Shaft Diameter	0.500 in
Shaft Extension	1.5 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005005.44	Outline Drawing	031633-500

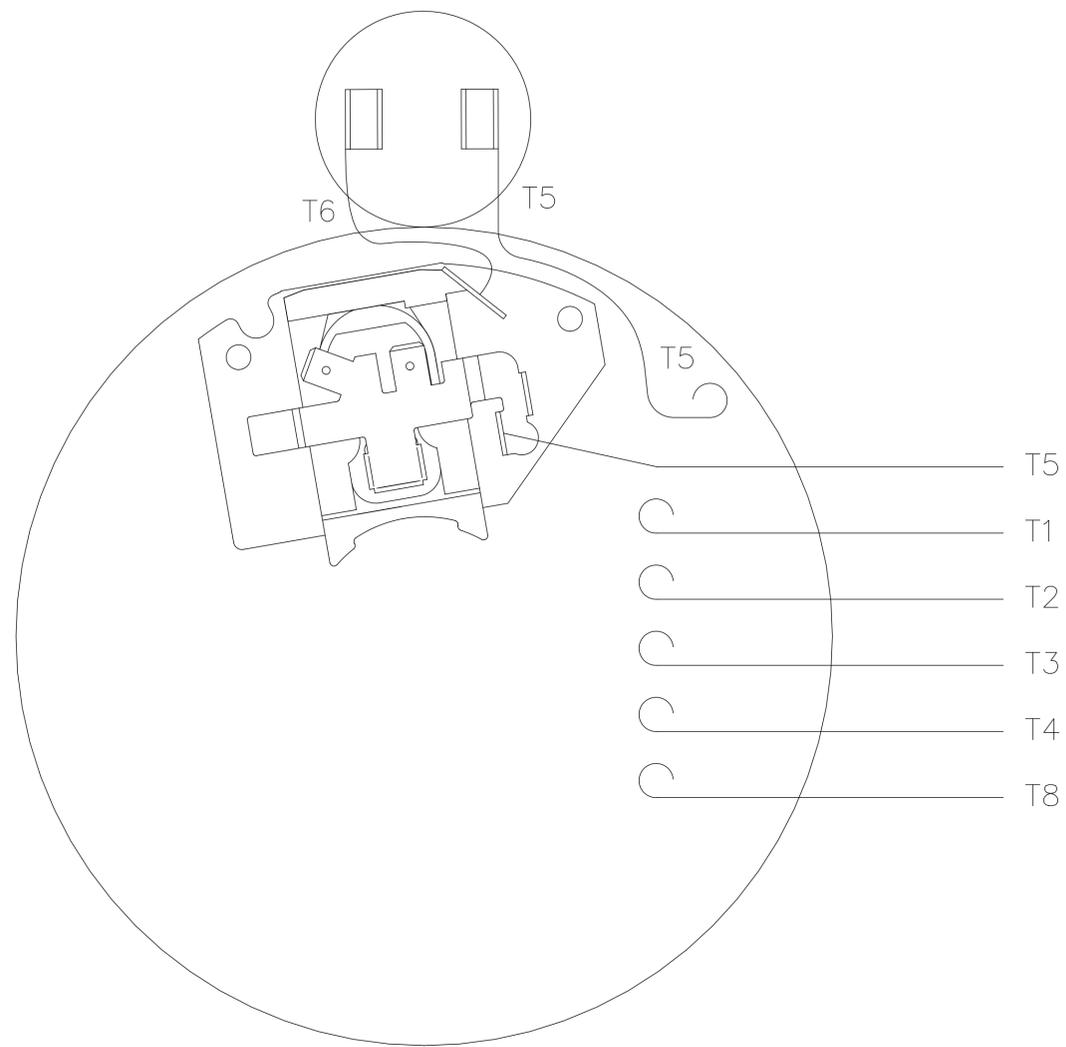


DASH NO.	"C"	"AD"
475	9.06	1.94
500	9.31	2.19
525	9.56	2.44
550	9.81	2.69
575	10.06	2.94
600	10.31	3.19
625	10.56	3.44
650	10.81	3.69
675	11.06	3.94
700	11.31	4.19
725	11.56	4.44

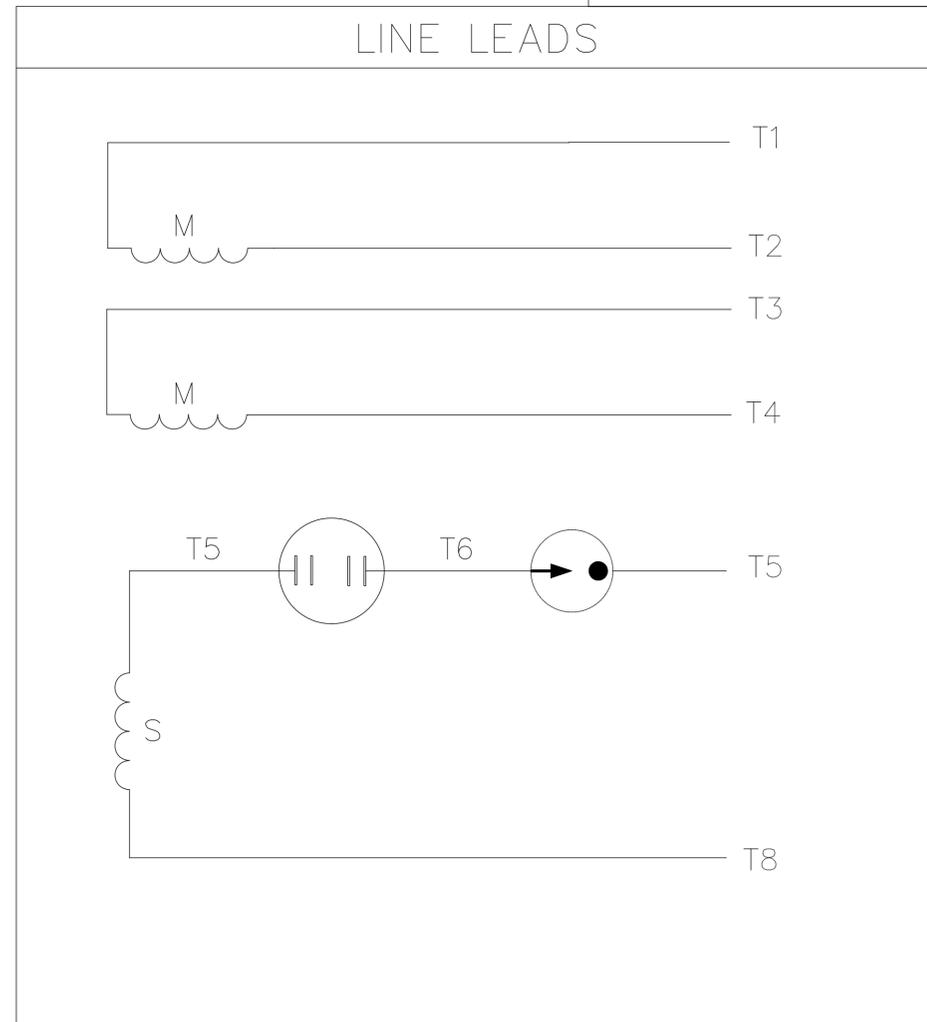
GASKETS THROUGHOUT

				TOLERANCES UNLESS SPECIFIED		<b>LEESON</b> ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN PG 5/30/01
				DEC.	INCHES		CHK
				.X	±.1	APPD	
				.XX	±.03	TITLE	SCALE 1=2
02	ADDED DASH NO. 725 (PR040408)	KMM	7/30/04	.XXX	±.005	OUTLINE - 48 FRAME RIGID MOUNT - TEFC	REF 030391
01	ADDED DASH NO. 700 (PR030708)	PG	12/18/03	.XXXX	±.0005	MAT'L 1 PHASE	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	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	031633	SIZE B
				DIST			DRAWING NO. 031633
							REV. 02

005005-44



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END



	ROTATION FACING LEAD END	L1	L2	JOIN
HIGH VOLT	C.C.W.	T1	T4,T5	T2,T3 T8
	C.W.	T1	T4,T8	T2,T3 T5
LOW VOLT	C.C.W.	T1 T3,T8	T2,T4 T5	
	C.W.	T1 T3,T5	T2,T4 T8	

				TOLERANCES UNLESS OTHERWISE SPECIFIED			 <b>Regal Beloit America, Inc.</b>						
				DEC.	INCHES	METRIC							
				.X	±.1	±.25	DRAWN	PG 5/7/01	TITLE		EXTERNAL WIRING DIAGRAM TYPE "C" W/O PROTECTOR		
				.XX	±.01	±.25	APPR.		MAT'L.		DUAL VOLTAGE - DUAL ROTATION		
01	MOVED T5 TO "INSIDE" SWITCH TERMINAL	PG 8/2/01		.XXX	±.005	±.127	R.F.P.						
NO.	REVISION	BY & DATE	CH'K'D.	.XXXX	±.0005	±.0127	SCALE	5=8					
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				FRACTIONS	±1/64		REF.	005005-01	FINISH	REV.	01	DRAWING NO.	005005-44
				ANGLES	±1/2°		FMF	100006					



**CERTIFICATION DATA SHEET**

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

**CONN. DIAGRAM:** 005005.44

**CATALOG #:** 102020.00

**OUTLINE:** 031633-500

**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	48	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
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	STANDARD 48	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

\*  
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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



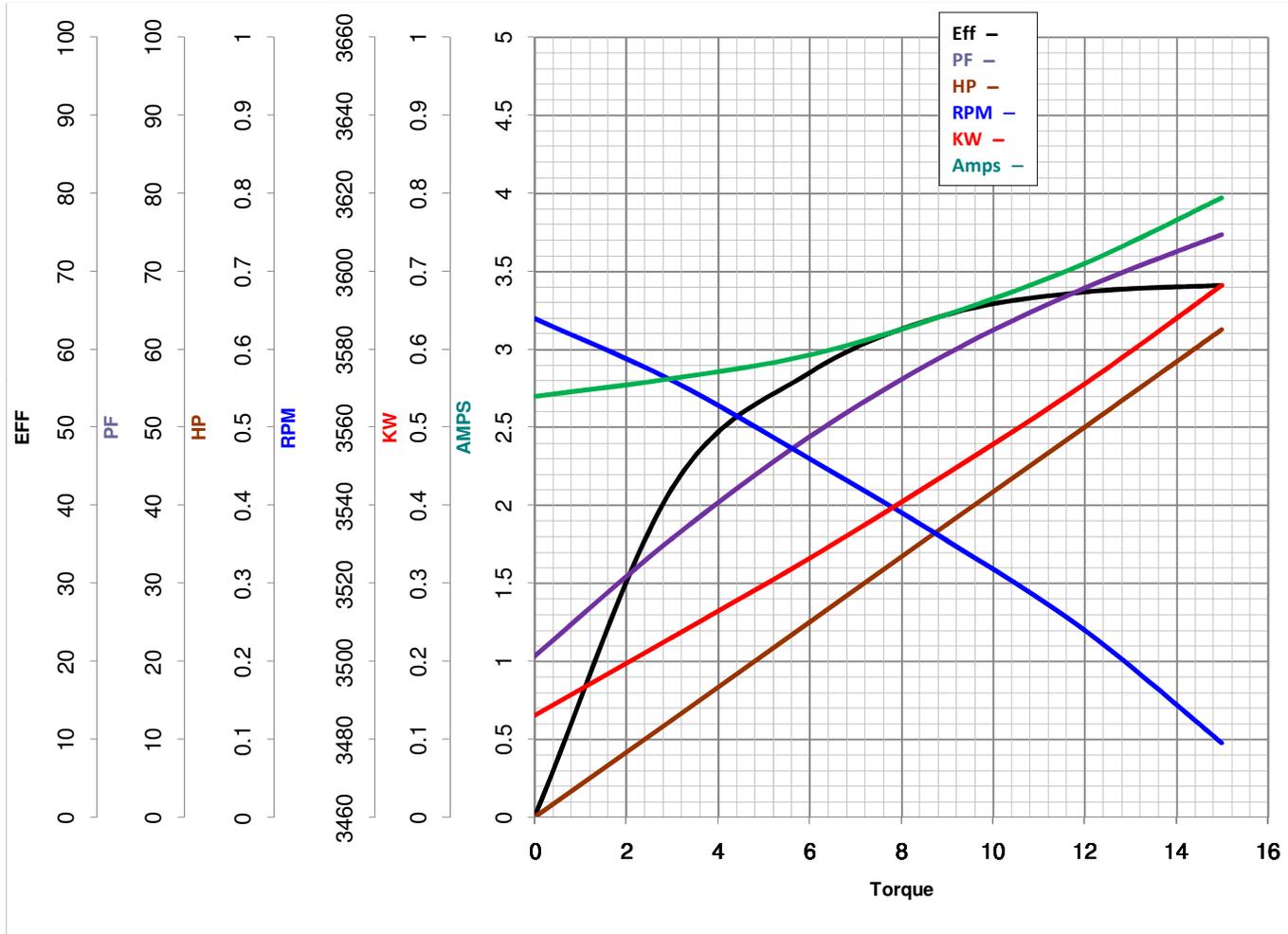
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 102020.00

Catalog No 102020.00

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

HZ 60      RPM 3450



Torque in Oz.Ft

FL TORQUE 12 Oz.Ft  
 BD TORQUE 35.2 Oz.Ft  
 LR TORQUE 34.6 Oz.Ft

FL AMPS 7/3.4-3.5  
 PU TORQUE 31.5 Oz.Ft  
 LR AMPS 20.5

WINDING CE482235-3

Date 3/22/2018