

PRODUCT INFORMATION PACKET



Model No: 100701.00
Catalog No: 100701.00
Agricultural Motor, 0.50 HP, 1 Ph, 60 Hz, 115/230 V, 1800 RPM, 48Y Frame, TEAO



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Nameplate Specifications

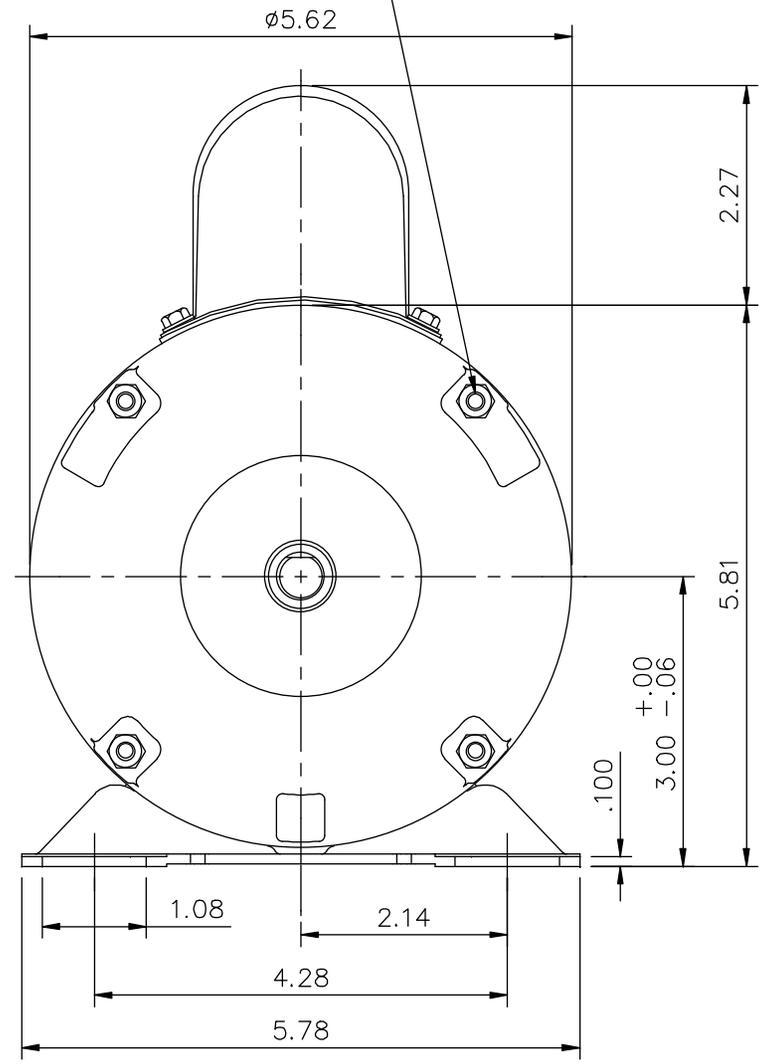
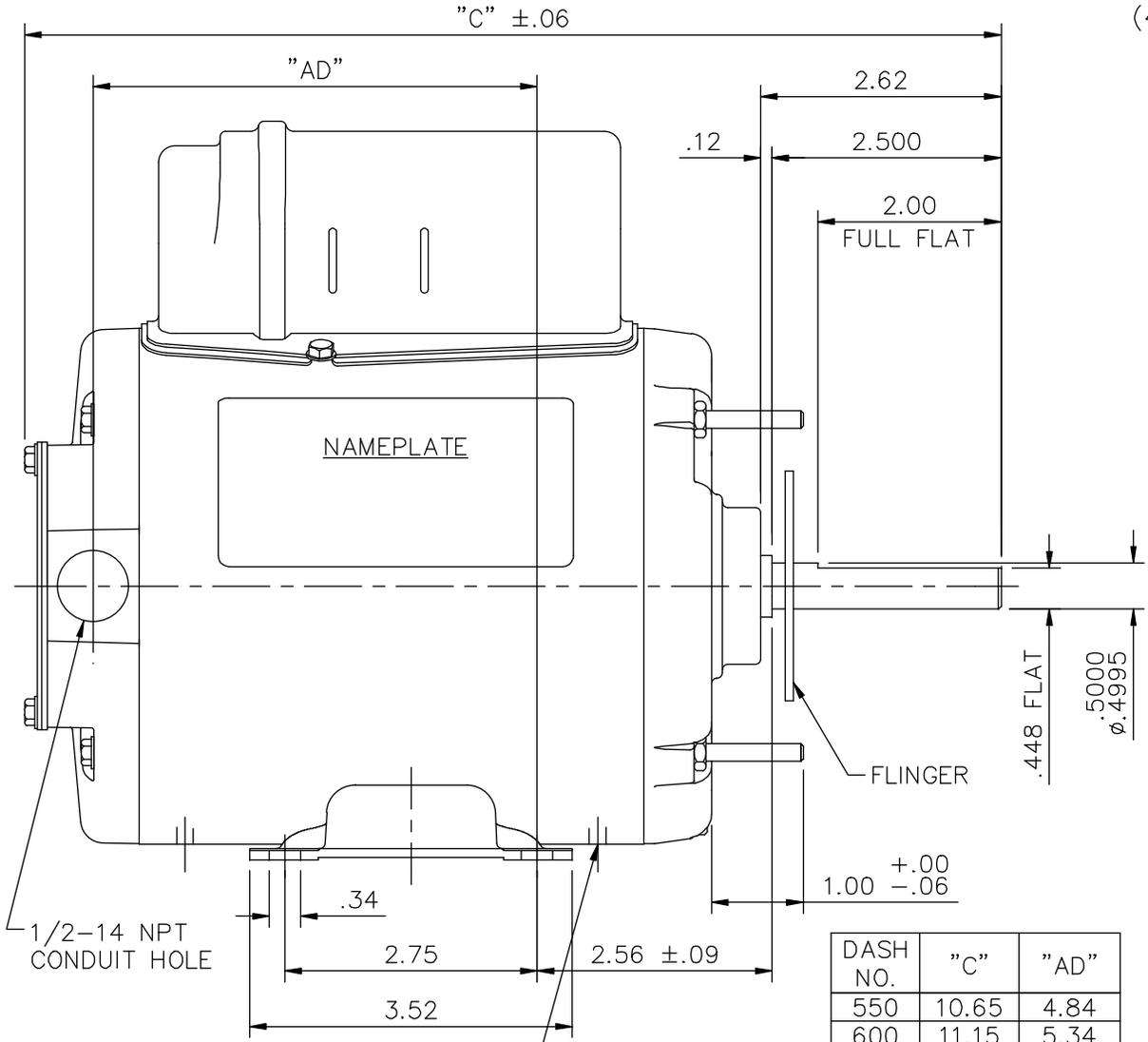
Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	60 Hz	Voltage	115/230 V
Current	5.0/2.5 A	Speed	1625 rpm
Service Factor	1	Phase	1
Efficiency	73 %	Power Factor	87
Duty	Continuous	Insulation Class	B
Design Code	N	KVA Code	F
Frame	48Y	Enclosure	Totally Enclosed Air Over
Thermal Protection	Automatic	Ambient Temperature	40 °C
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	Permanent Split Capacitor	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	1.2 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	12.15 in
Frame Length	7.00 in	Shaft Diameter	0.500 in
Shaft Extension	2.5 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	031707-700	Connection Drawing	A-005109-01

031707

10-32 UNF 2A THRU BOLTS
(4) REQ'D. ON A Ø5.125 B.C.



DASH NO.	"C"	"AD"
550	10.65	4.84
600	11.15	5.34
625	11.40	5.59
650	11.65	5.84
700	12.15	6.34

GASKETS THROUGHOUT



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

DRAWN	PG 7/24/02
CHK	
APPD	
SCALE	1=2
REF	030986
FMF	100700.00
PREV	

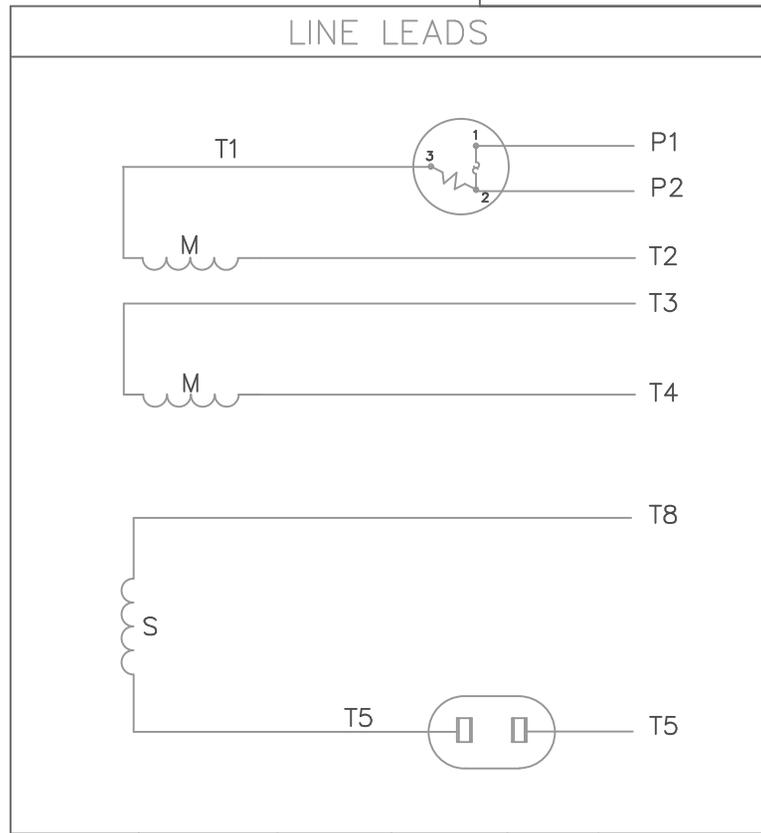
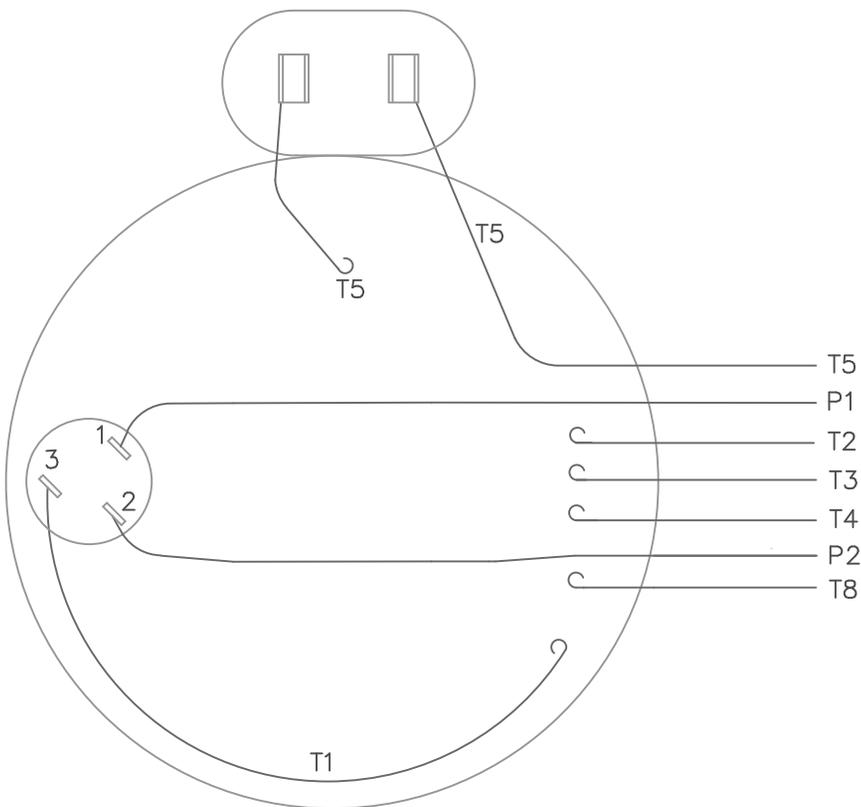
TITLE
OUTLINE - 48Y FRAME
RIGID MOUNT - ENCLOSED

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH
				DEC.	INCHES	
				.X	±.1	
				.XX	±.03	
				.XXX	±.005	
				.XXXX	±.0005	
				ANG	±1/2'	

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RFP	CAD FILE	031707	SIZE	DRAWING NO.	REV.
DIST			A	031707	

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



	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 OTHERWISE SPECIFIED		
				DEC.	INCHES	METRIC
				.X	±	±
				.XX	±	±
08	REDRAWN ON CAD	DBT 05/28/97		.XXX	±	±
NO.	REVISION	BY & DATE	CH'K'D.	.XXXX	±	±
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				ANGLES	±	

LEESON ELECTRIC CORPORATION

DRAWN JRW 10/01/75	TITLE	EXTERNAL WIRING DIAGRAM	
APPR. JBM 10/02/75	TYPE "P" W/PROTECTOR		
R.F.P.	MAT'L.	DECAL - 004011	BRF
SCALE 1=1			
REF. 005003	FINISH	REV. 08	DRAWING NO. 005109-01
FMF W-P5567			



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-005109-01
OUTLINE: 031707-700
WINDING #: PE484466 NR 5 A

CATALOG #: 100701.00
MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1625	48Y	TEAO	F	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/230	5/2.5	ACROSS THE LINE	CONTINUOUS	B3	1.0	40

FULL LOAD EFF:	73	3/4 LOAD EFF:	70	1/2 LOAD EFF:	62.3	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	87	3/4 LOAD PF:	81.9	1/2 LOAD PF:	74.3	67	PSC 1 SPEED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24.64 OZ-FT	22.1 / 11.1	18.85 OZ-FT 78.8 %	55.9 OZ-FT 233 %	-

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	-1 LB-FT^2	- LB-FT^2	10 SEC.	-	24 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	GRAY - LEESON (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	SGL SPL EXT	SPECIAL	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

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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



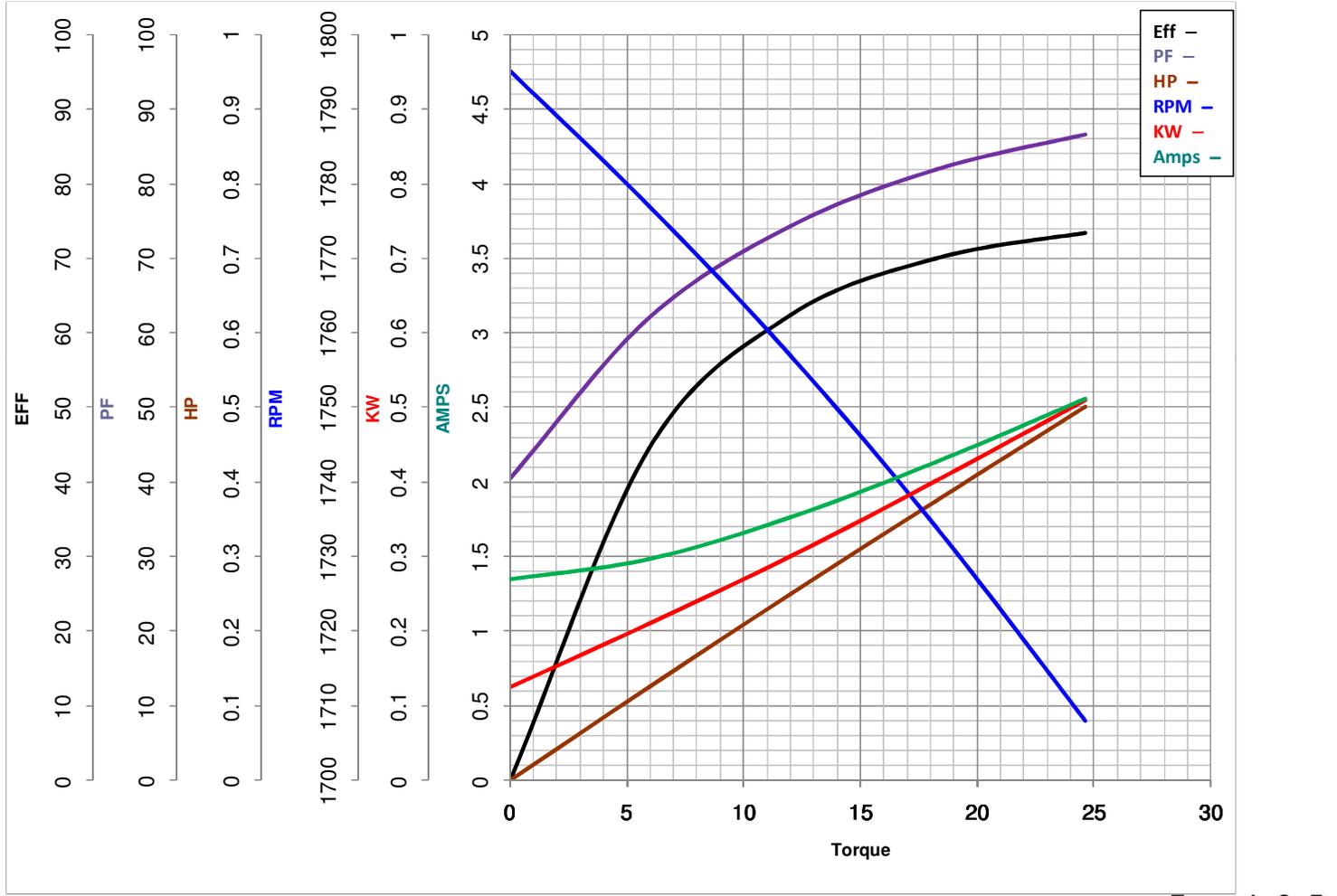
LEESON ELECTRIC CORPORATION
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 100701.00

Catalog No 100701.00

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

HZ 60 RPM 1625



FL TORQUE	<u>24.64</u> Oz.Ft	FL AMPS	<u>5/2.5</u>
BD TORQUE	<u>55.9</u> Oz.Ft	PU TORQUE	<u>18.7</u> Oz.Ft
LR TORQUE	<u>18.85</u> Oz.Ft	LR AMPS	<u>11.07</u>
WINDING	PE484466-5	Date	3/28/2018