

# PRODUCT INFORMATION PACKET



Model No: 120374.00  
Catalog No: 120374.00  
1.50 HP Agricultural Motor, 1 phase, 3600 RPM, 115/230 V, 143TZ Frame, TEAO  
Agricultural Motors



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### Nameplate Specifications

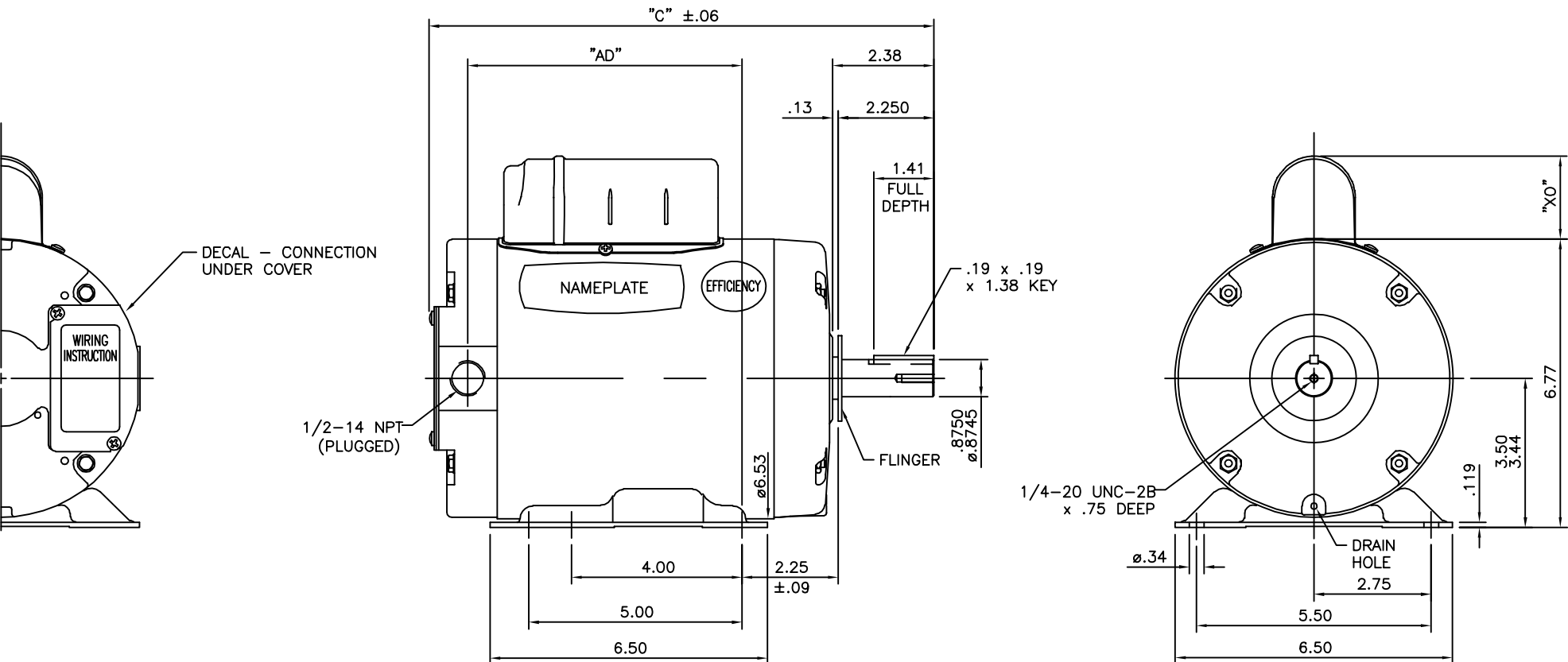
Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	115/230 V
Current	17.0/8.5 A	Speed	3450 rpm
Service Factor	1	Phase	1
Efficiency	72 %	Power Factor	80
Duty	Continuous	Insulation Class	B
Design Code	L	KVA Code	H
Frame	143TZ	Enclosure	Totally Enclosed Air Over
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6205	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	1.32 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	11.84 in
Frame Length	6.50 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005005.52	Outline Drawing	034948-650B


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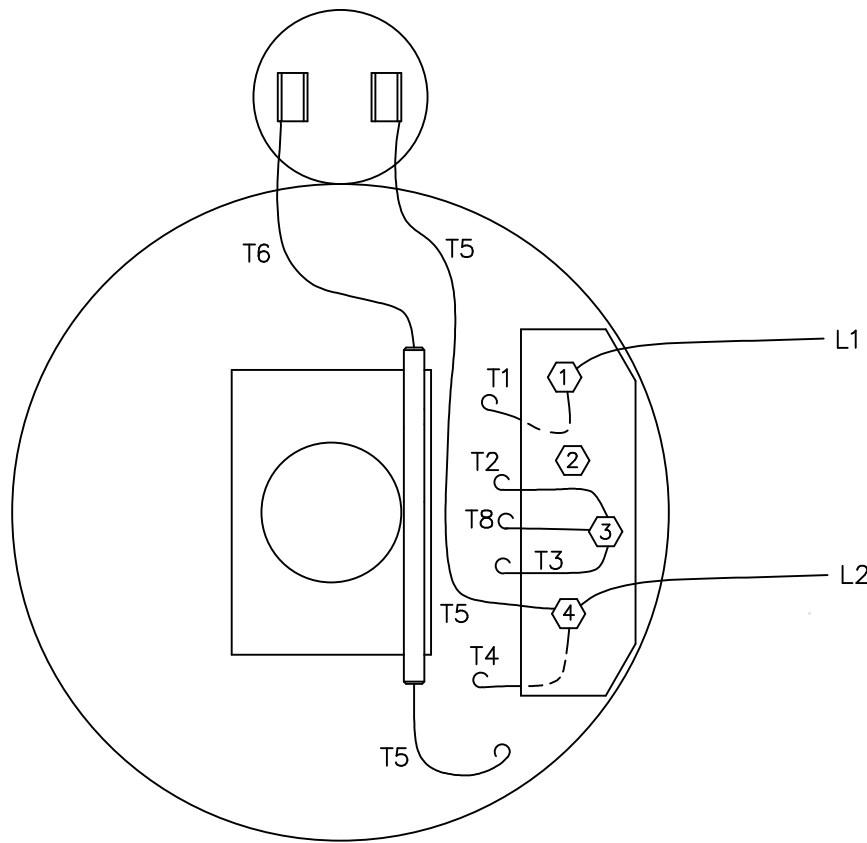
034948



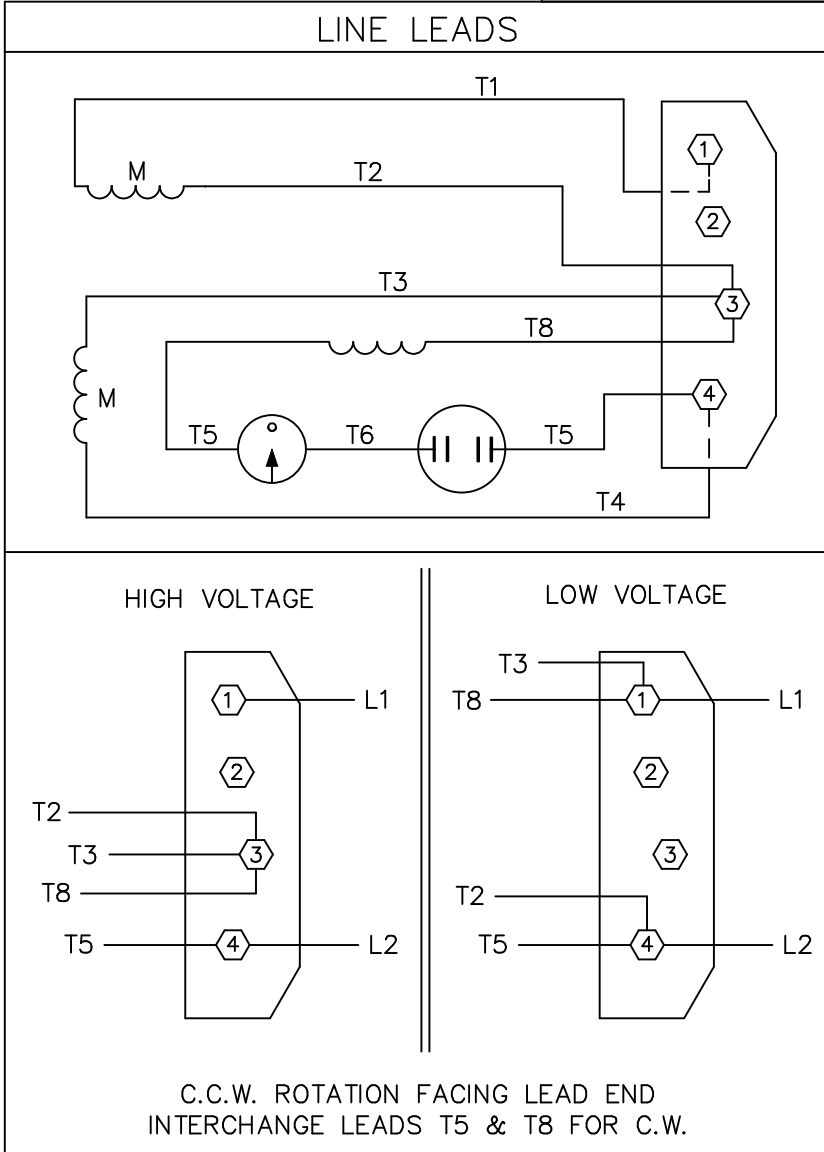
GASKETS THROUGHOUT

DASH NO.	"C"	"AD"	CAP. DASH	"XO"
600	11.34	5.94	A	1.54
650	11.84	6.44	B	2.01
700	12.34	6.94	C	2.25
750	12.84	7.44		
800	13.34	7.94		

								TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN GWS 7/30/02		
						DEC. INCHES		CHK						
								APPD						
												SCALE 3=8		
		B		THREAD WAS UNF PER ECR-0071602		ARV 11/6/14		SK .XXX ±.005		TITLE OUTLINE - 140T FRAME TENV - RIGID		REF 033388		
		A		CHANGED CAP CASE TO NEW STYLE, ADDED CAP DASH		RLW 6/17/04		.XXXX ±.0005		MAT'L FAN DUTY		FMF 120374		
ORACLE REV		NO.		REVISION		BY & DATE		CHK ANG ±1/2"		FINISH STOCK		PREV		
02		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 034948		SIZE B	DRAWING NO. 034948	REV. B
								DIST BRF						



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



C.C.W. ROTATION FACING LEAD END  
INTERCHANGE LEADS T5 & T8 FOR C.W.

				TOLERANCES UNLESS SPECIFIED		<div>LEESON</div> <div>ELECTRIC MOTORS GEARMOTORS AND DRIVES</div>	DRAWN PG 9/14/05	
				DEC.	INCHES		CHK	
				.X	±.1		APPD	
				.XX	±.01		SCALE	1=1
				.XXX	±.005		REF	005005-24
				.XXXX	±.0005	TITLE	FMF	115950.00
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	PREV	
				RFP		CAD FILE	00500552	SIZE
				DIST				A
								DRAWING NO.
								005005-52
								REV.

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## CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: 005005.52

CATALOG #: 120374.00

OUTLINE: 034948-650B

MOUNTING: F1 ONLY

WINDING #: C632212 NR 3 A

## TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2	1.12	3600	3450	143TZ	TEAO	H	L

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/230	17/8.5	ACROSS THE LINE	CONTINUOUS	B4	1.0	40

FULL LOAD EFF:	72	3/4 LOAD EFF:	70.7	1/2 LOAD EFF:	66.1	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	80	3/4 LOAD PF:	73.5	1/2 LOAD PF:	62.7	68	CAP START IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
2.28 LB-FT	92 / 46	5.5 LB-FT 244 %	5.6 LB-FT 249 %	82

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.058 LB-FT^2	0.1 LB-FT^2	0 SEC.	0	34 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 - LIGHT (EPOXY)

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
6205	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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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 120374.00

Curve at

230

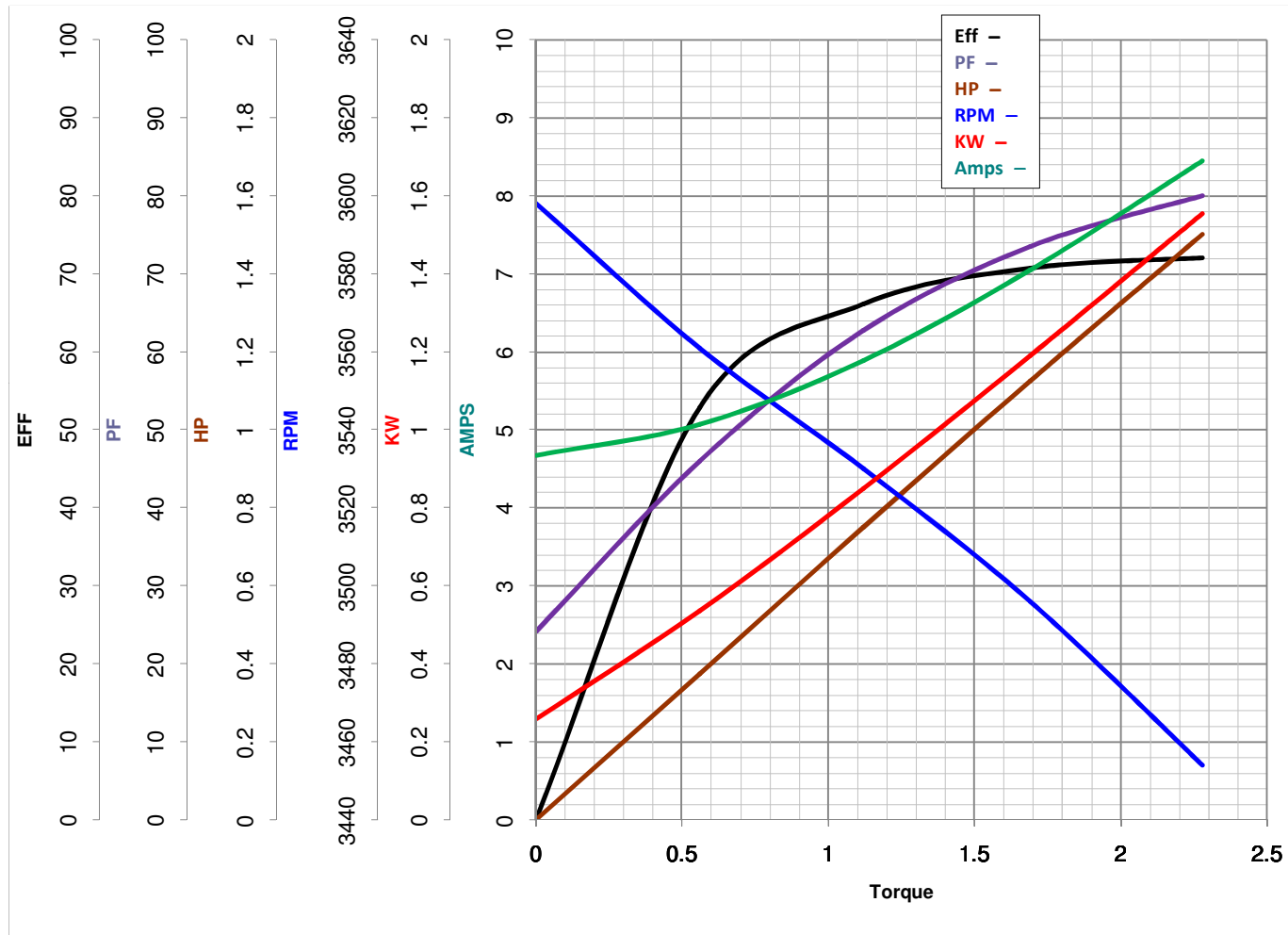
Volts

HP 1.50PHASE 160

HZ

1.5

HP

VOLTS 115/230Catalog No 120374.00HZ 60RPM 3450

Torque in Lb.Ft

FL TORQUE 2.28 Lb.FtBD TORQUE 5.6 Lb.FtLR TORQUE 5.5 Lb.Ft

WINDING C632212-3

FL AMPS 17/8.5PU TORQUE 5.3 Lb.FtLR AMPS 46

Date 3/29/2018