

PRODUCT INFORMATION PACKET

Model No: 140707.00

Catalog No: 140707.00

7.50 HP Agricultural Motor, 1 phase, 1800 RPM, 230 V, 215T Frame, TEFC



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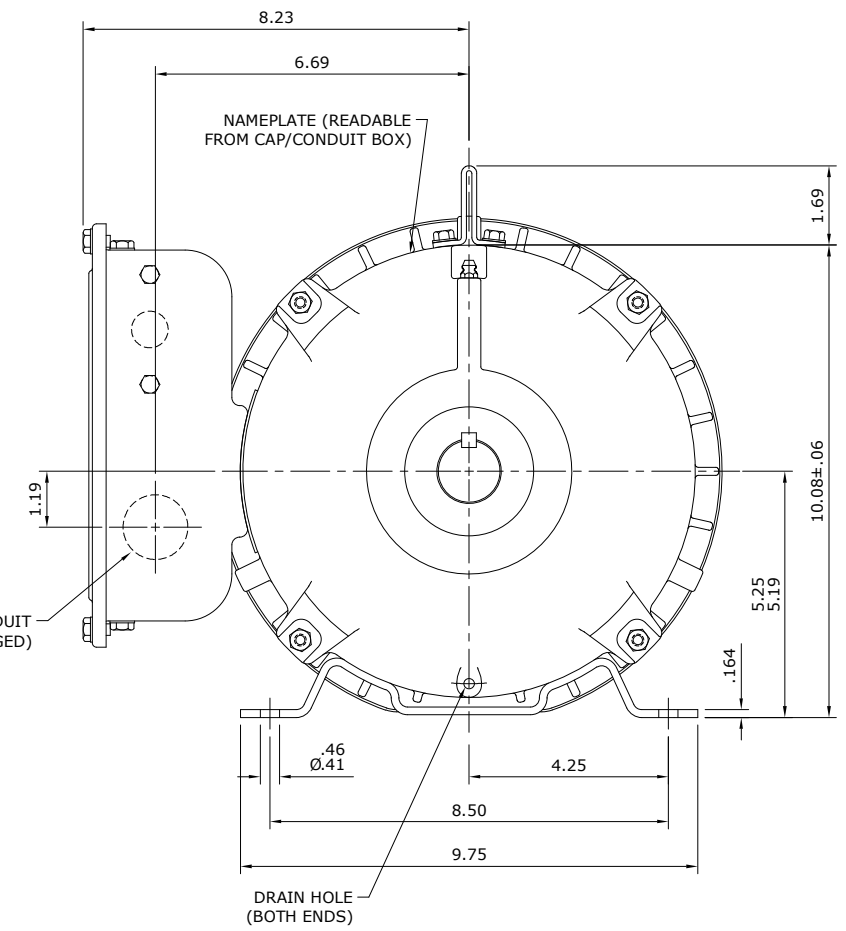
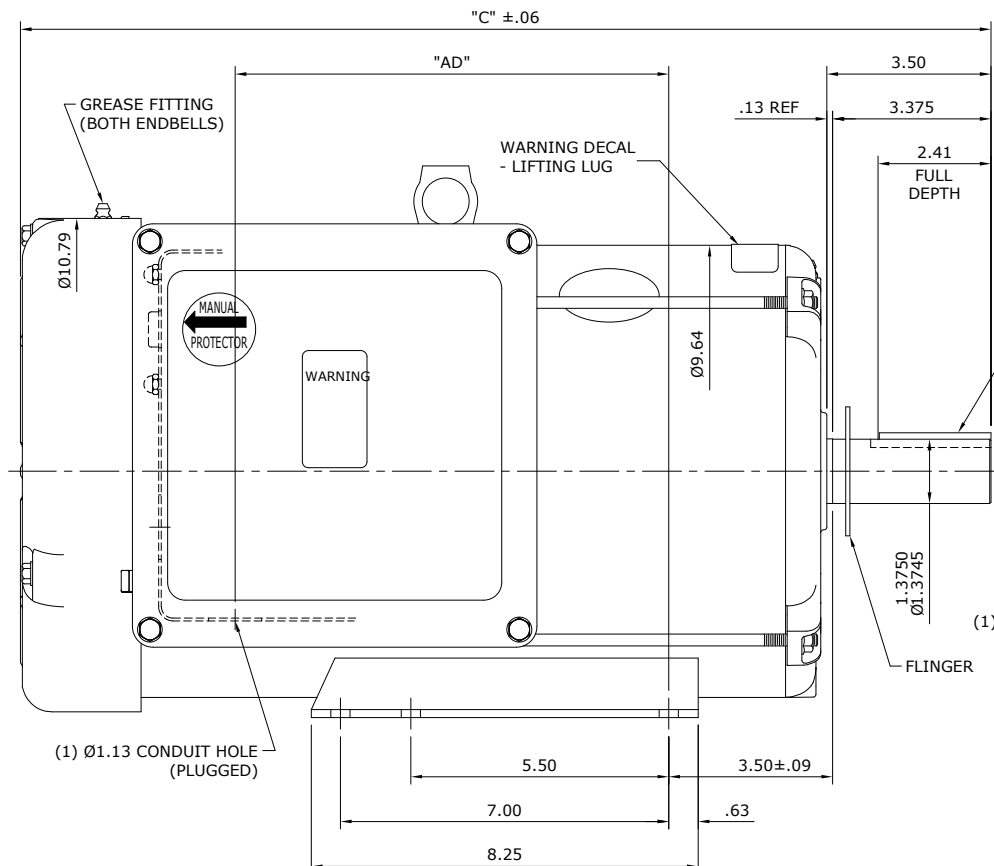
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	230 V
Current	32.0 A	Speed	1740 rpm
Service Factor	1.15	Phase	1
Efficiency	85.5 %	Power Factor	90
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	J
Frame	215T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Manual	Ambient Temperature	40 °C
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	.135 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	20.21 in
Frame Length	13.50 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005080.17	Outline Drawing	037596-1350

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SPECIAL FEATURES:
 BRASS NAMEPLATE
 GASKETS THROUGHOUT
 FLINGER ON SHAFT
 DRAIN HOLES IN BOTH ENDBELLS
 MANUAL OVERLOAD PROTECTOR
 GREASE FITTINGS IN BOTH ENDBELLS

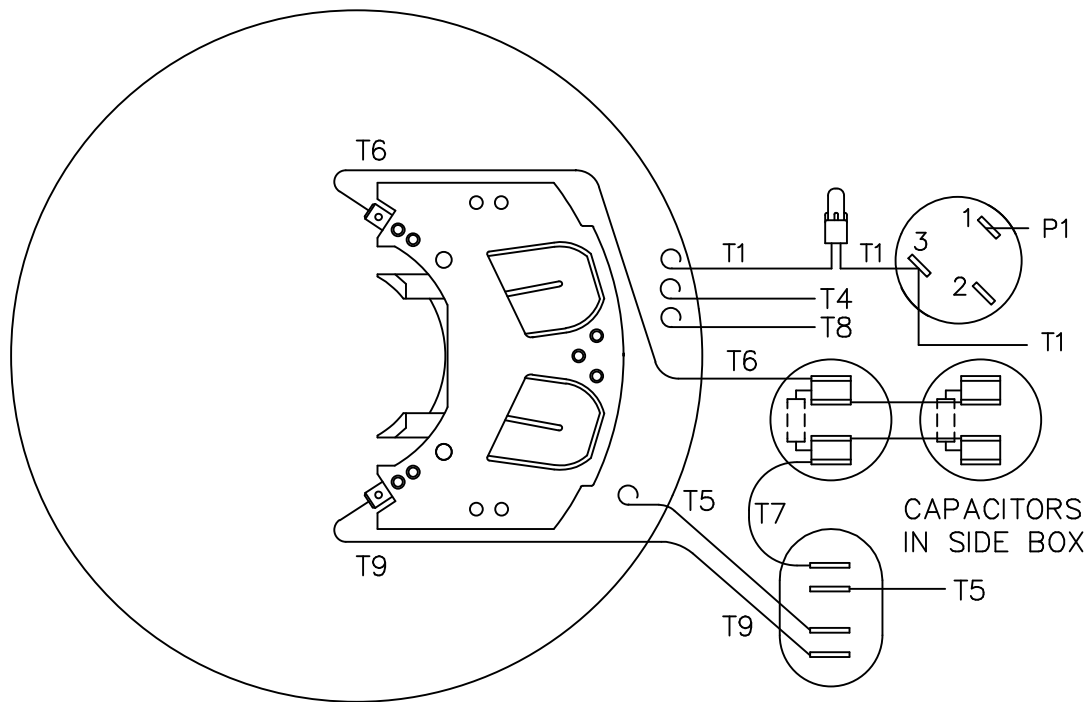
DASH NO.	"C"	"AD"
1200	18.71	7.25
1250	19.21	7.75
1300	19.71	8.25
1350	20.21	8.75
1400	20.71	9.25
1450	21.21	9.75
1500	21.71	10.25

DRAWING REVISION	REVISION BY	REV DATE / @ DATE
D	KR	11/12/2021
REQUEST NUMBER	APPROVED BY	DATE
NMR-0210751	MN	11/12/2021
REQUEST NUMBER DESCRIPTION		
REGAL TEMPLATE UPDATED		
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TOLERANCES (EXCEPT AS NOTED):
 DEC. INCH mm ANGLE
 .X ±.01 (#.3) ±.05°
 .XX ±.003 (#.08) ±.013°
 .XXX ±.0005 (#.013) ±.013°
 .XXXX ±.00005 (#.0013) ±.013°
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 (.08/.38) X 45°
 CORNER FILLETS: R.02 (.5)
 MACHINED SURFACES: INCH mm
 DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

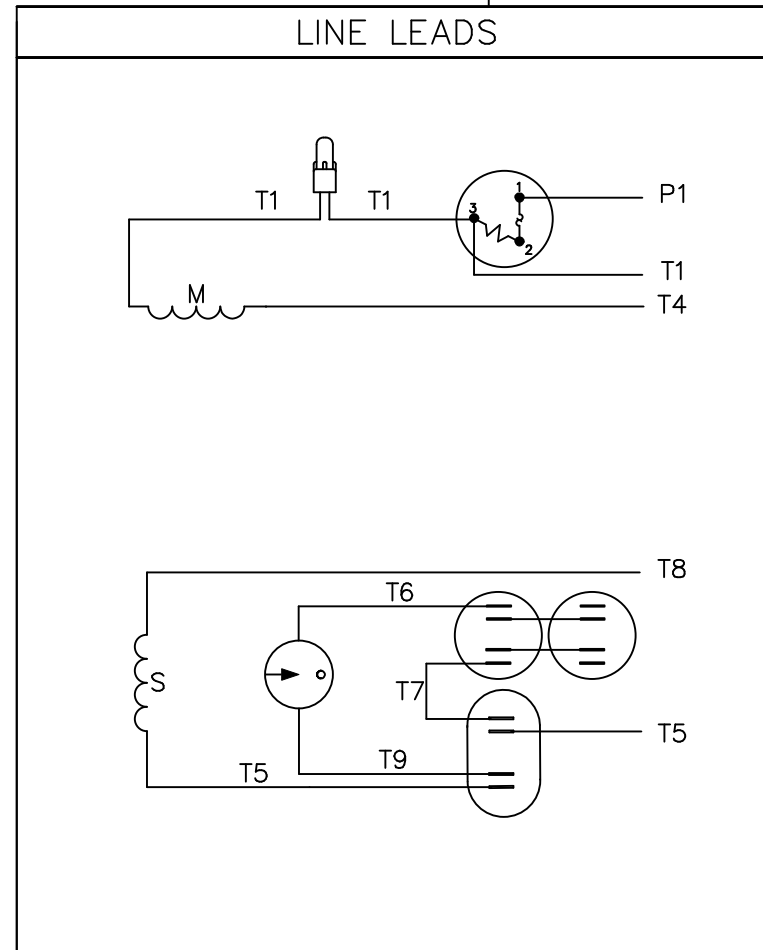
DRAWN BY	RDW
DATE	6/3/02
APPROVED BY	SW
DATE	6/3/02
REFERENCE	140130
THIRD ANGLE PROJECTION	

		Regal Beloit America, Inc.	
APPROVED BY		DESCRIPTION	
DATE		OUTLINE	
REFERENCE		210T FRAME - TEFC - RIGID	
MATERIAL		PROCESS/FINISH	
FARM DUTY			
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER	SHEET
		037596	1 OF 1



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END

CAUTION:
LEAD WIRE INSULATION TO EXTEND MIN. OF 1/4" INTO CONNECTOR INSULATION



ROTATION FACING LEAD END	L1	L2	JOIN & INSULATE
C.C.W.	P1	T4,T5	T1,T8
C.W.	P1	T4,T8	T1,T5

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED	
				DEC.	INCHES
				.X	±.1
				.XX	±.01
				.XXX	±.005
				.XXXX	±.0005
				ANG	±1/2°



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

TITLE	EXTERNAL WIRING DIAGRAM TYPE "K" WITH PROTECTOR
MAT'L.	DECAL 004015
FINISH	

DRAWN	RDW 9/17/02
CHK	
APPD	
SCALE	1=2
REF	005080-16
FMF	140203
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	9/17/02	CAD FILE	00508017	SIZE	DRAWING NO.	REV.
		DIST				A	005080-17	



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005080.17

CATALOG #: 140707.00

OUTLINE: 037596-1350

MOUNTING: F1 ONLY

WINDING #: K9424 FR 2 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.60	1800	1740	215T	TEFC	J	NO DESIGN CODE

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	230	32	ACROSS THE LINE	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	85.5	3/4 LOAD EFF:	85.4	1/2 LOAD EFF:	84.6	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	90	3/4 LOAD PF:	85.4	1/2 LOAD PF:	73.7	82.5		CAP START CAP RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.5 LB-FT	241	85.5 LB-FT 380 %	62 LB-FT 276 %	76.2

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	1.068 LB-FT^2	1.1 LB-FT^2	0 SEC.	0	157 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	RED - LEESON FARM DUTY

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6207	6206						

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



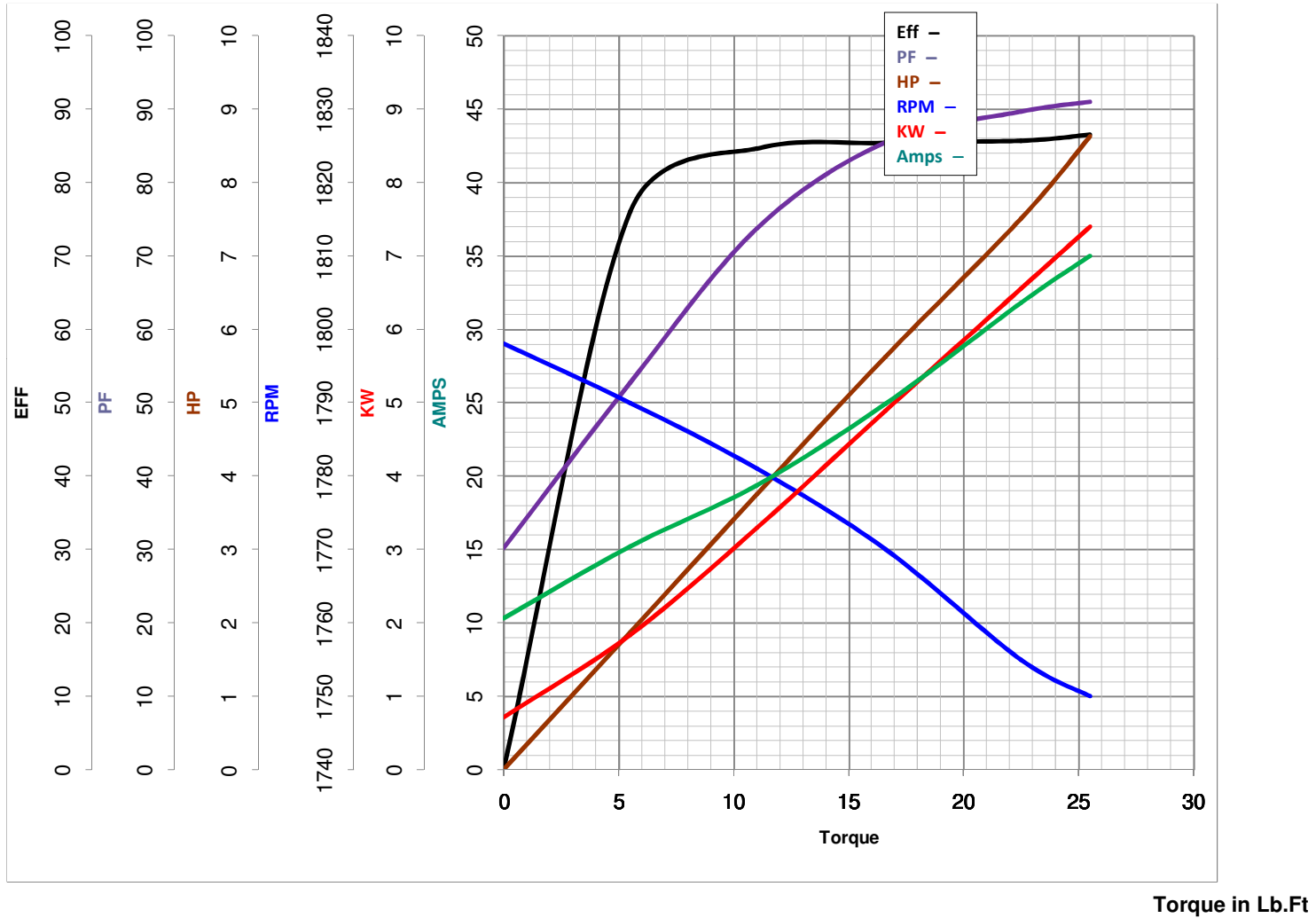
LEESON ELECTRIC CORPORATION TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 140707.00

Curve at 230 Volts HP 7.50 PHASE 1
60 HZ
7.5 HP VOLTS 230

Catalog No 140707.00

HZ 60 RPM 1740



FL TORQUE 22.5 Lb.Ft
BD TORQUE 62.0 Lb.Ft
LR TORQUE 85.5 Lb.Ft

FL AMPS 32
PU TORQUE 58.5 Lb.Ft
LR AMPS 241

WINDING K9424-2

Date 4/23/2018