PRODUCT INFORMATION PACKET

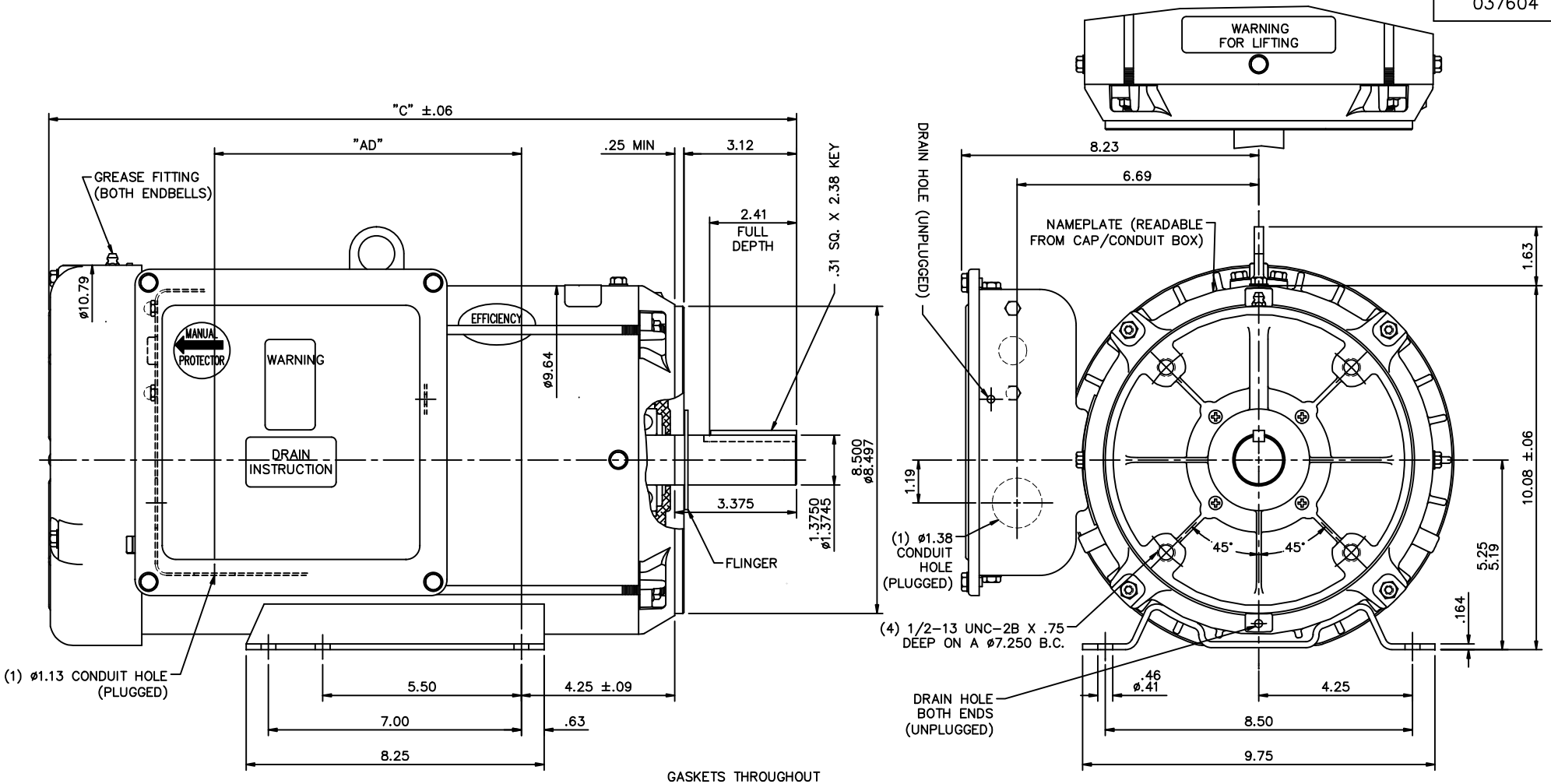
Model No: 140705.00
Catalog No: 140705.00
10 HP Agricultural Motor, 1 phase, 1800 RPM, 230 V, 215TC Frame, TEFC
Agricultural Motors

Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	230 V
Current	40.0 A	Speed	1740 rpm
Service Factor	1.15	Phase	1
Efficiency	86.5 %	Power Factor	95
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	G
Frame	215TC	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	.118 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	20.71 in
Frame Length	14.00 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005461.02	Outline Drawing	037604-1400



GASKETS THROUGHOUT
MAXIMUM FACE RUNOUT TO BE .004 T.I.R.
MAXIMUM PILOT ECCENTRICITY TO BE .004 T.I.R.
PERMISSIBLE SHAFT RUNOUT TO BE .002 T.I.R.
ALIGN BASE TO C-FACE MOUNTING HOLES WITHIN ±1/16"

SPECIAL FEATURES:
1) GASKETS THROUGHOUT
2) FLINGER AT SHAFT END OF MOTOR
3) STAINLESS STEEL HARDWARE & FAN GUARD
4) EPOXY PAINT
5) PLUGGED DRAIN HOLES IN FRAME
AT 3:00, 9:00, & 12:00

DASH NO.	"C"	"AD"
1200	18.71	6.50
1250	19.21	7.00
1300	19.71	7.50
1350	20.21	8.00
1400	20.71	8.50
1450	21.21	9.00
1500	21.71	9.50

NO.	REVISION	BY & DATE	CHK
			ANG

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE: OUTLINE – 210TC FRAME TEFC – RIGID "C"

MAT'L. CATFISH

FINISH

CAD FILE 037604

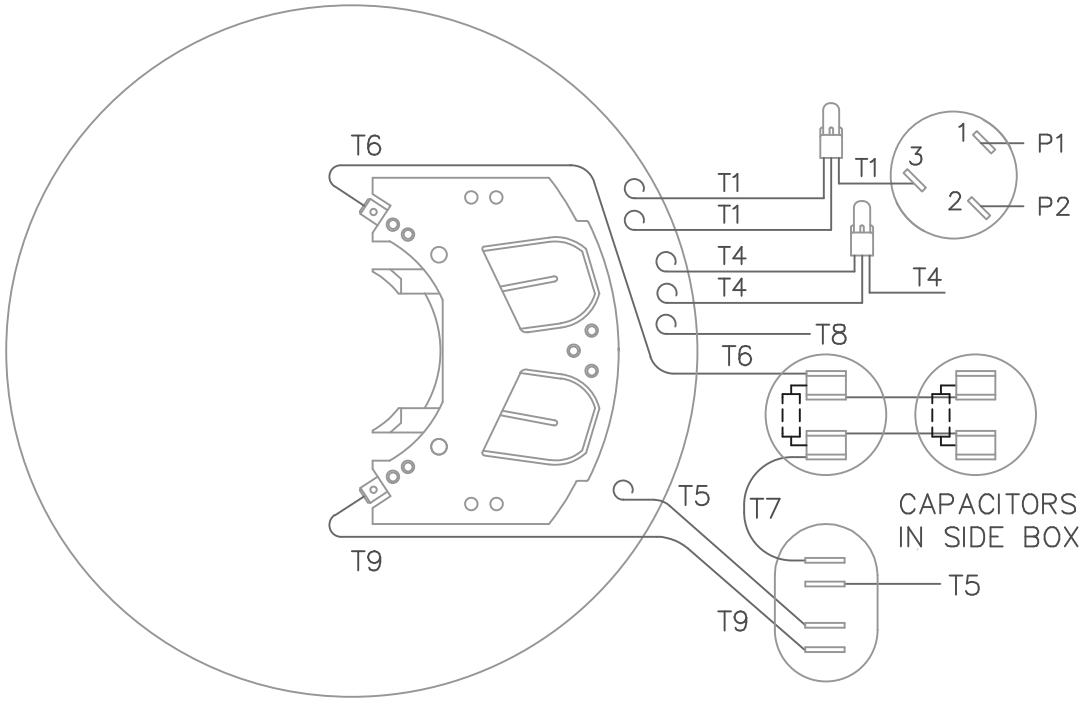
RFP 1/23/02

DIST NLV

DRAWN	RDW 1/23/03
CHK	
APPD	SW 1/23/03
SCALE	3=8
REF	
FMF	140705
PREV	

SIZE B | DRAWING NO. 037604 | REV.

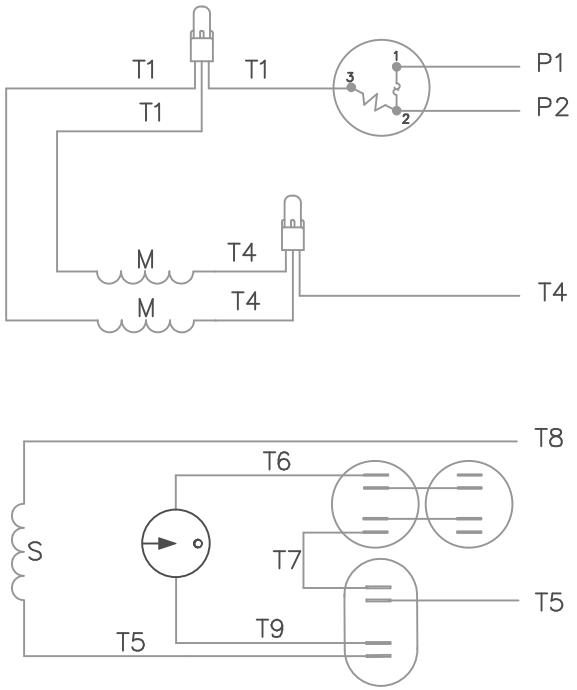
005461-02



VIEW FROM OUTSIDE OF
MOTOR AT SWITCH END

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

LINE LEADS



ROTATION FACING LEAD END	L1	L2	JOIN & INSULATE
C.C.W.	P1	T4,T5	P2,T8
C.W.	P1	T4,T8	P2,T5

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED	
DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE	EXTERNAL WIRING DIAGRAM TYPE "K" WITH PROTECTOR
MAT'L.	DECAL 080135
FINISH	
CAD FILE	00546102

DRAWN	RDW 10/25/02
CHK	
APPD	
SCALE	1=2
REF	005461-01
FMF	140706
PREV	

RFP 10/25/02
DIST

SIZE	DRAWING NO.	REV.
A	005461-02	

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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005461.02
CATALOG #: 140705.00
OUTLINE: 037604-1400
MOUNTING: F1 ONLY
WINDING #: K9425 FR 2 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1800	1740	215TC	TEFC	G	NO DESIGN CODE

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

FULL LOAD EFF:	86.5	3/4 LOAD EFF:	86.4	1/2 LOAD EFF:	83.7	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	95	3/4 LOAD PF:	94.9	1/2 LOAD PF:	92.8	84	CAP START CAP RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
30 LB-FT	264	90.2 LB-FT 301 %	69.5 LB-FT 232 %	95

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	1.157 LB-FT^2	1.2 LB-FT^2	0 SEC.	0	155 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE - LEESON (EPOXY)

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

*** NOTES**

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

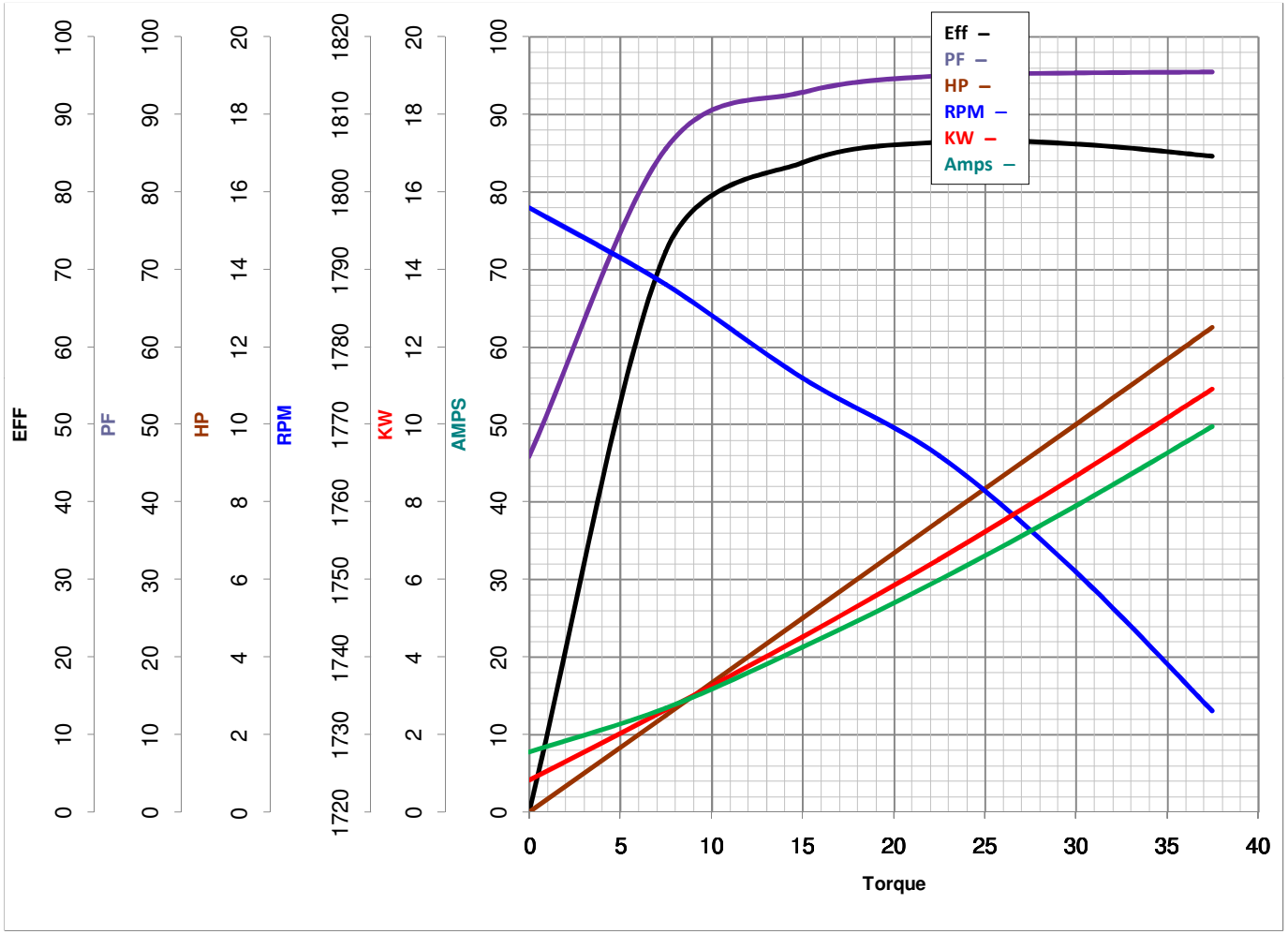
LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Curve at 230 **Volts** **HP** 10.00 **PHASE** 1
60 **HZ**
10 **HP** **VOLTS** 230

Model No 140705.00

Catalog No 140705.00 **HZ** 60 **RPM** 1740



Torque in Lb.Ft

FL TORQUE	30	**Lb.Ft**	**FL AMPS**	40	
BD TORQUE	69.5	**Lb.Ft**	**PU TORQUE**	61.5	**Lb.Ft**
LR TORQUE	90.2	**Lb.Ft**	**LR AMPS**	264	
WINDING	K9425-2			**Date**	**4/23/2018**