

# PRODUCT INFORMATION PACKET



Model No: 131544.00

Catalog No: 131544.00

General Purpose Motor, 3 HP, 1 Ph, 60 Hz, 115/230 V, 1800 RPM, 184TC Frame, DP



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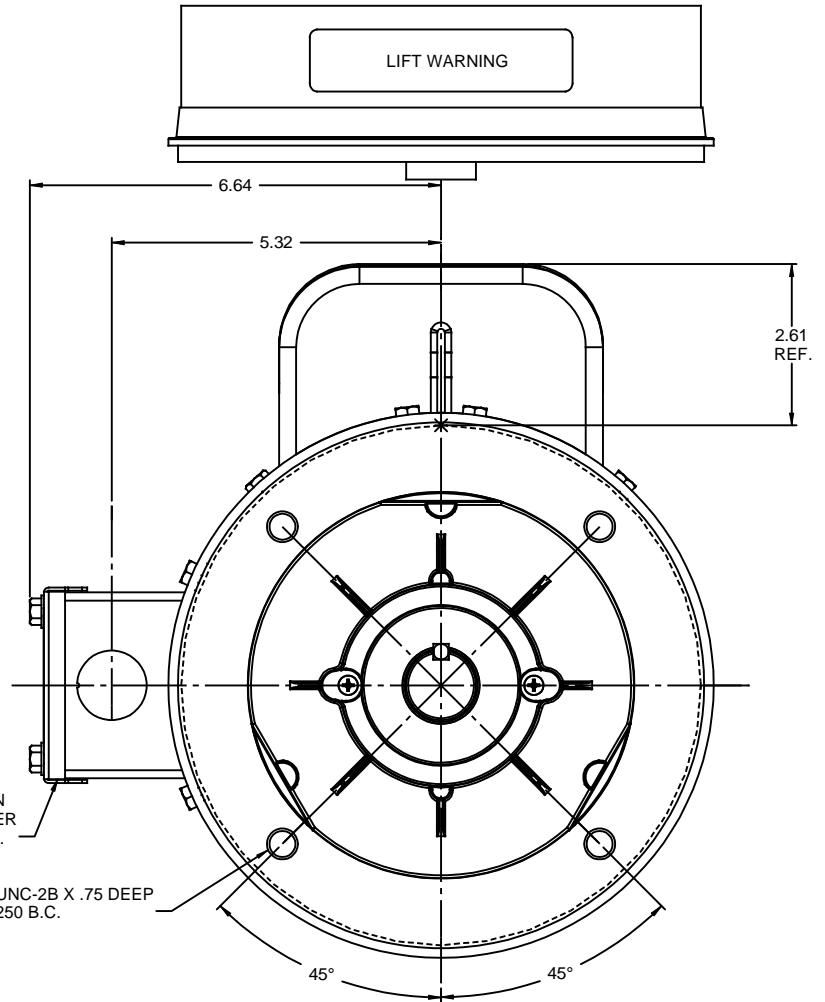
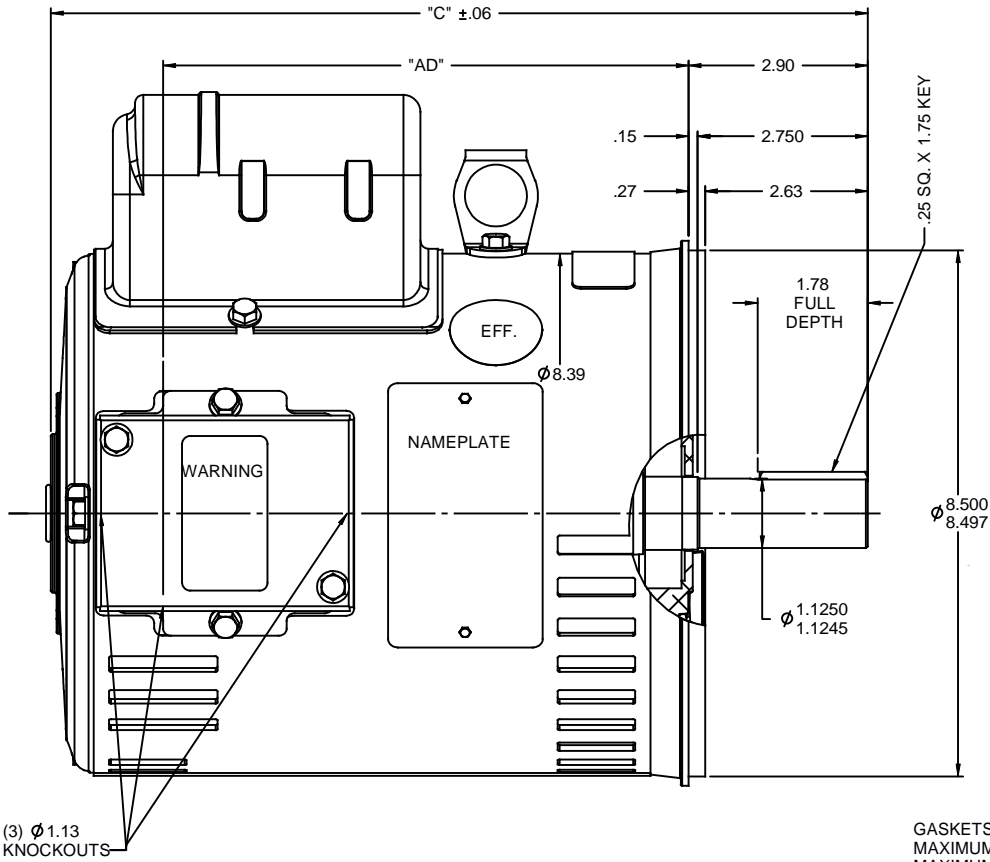
### Nameplate Specifications

Output HP	<b>3 Hp</b>	Output KW	<b>2.2 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>115/230 V</b>
Current	<b>33.8/16.9 A</b>	Speed	<b>1740 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>1</b>
Efficiency	<b>75.5 %</b>	Power Factor	<b>76</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>L</b>	KVA Code	<b>J</b>
Frame	<b>184TC</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6206</b>	Opp Drive End Bearing Size	<b>6205</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>22</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Capacitor Start Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Selective Counterclockwise</b>
Resistance Main	<b>.744 Ohms</b>	Mounting	<b>Round</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>T</b>	Overall Length	<b>14.20 in</b>
Frame Length	<b>10.00 in</b>	Shaft Diameter	<b>1.125 in</b>
Shaft Extension	<b>2.75 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Outline Drawing	<b>035371-1000</b>	Connection Drawing	<b>005062.01</b>

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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.

(3) Ø1.13  
 KNOCKOUTS

DASH NO.	"C"	"AD"
850	12.70	7.88
900	13.20	8.38
950	13.70	8.88
1000	14.20	9.38
1050	14.70	9.88
1100	15.20	10.38
1150	15.70	10.88

REVISION		BY & DATE	CHK	ANG	FINISH	PREV	SIZE	DRAWING NO	REV
- UPDATED AND REDRAWN IN SOLIDWORKS		LST 12/21/2009	XX	XXX	±.0005	MAT'L			
NO				±1/2°			B	035371	-

TOLERANCES UNLESS SPECIFIED	DEC	INCHES	DRAWN	PG 10/3/97
X		±.1	CHK	RSK 10/3/97
.XX		±.03	APPR	
.XXX		±.005	SCALE	1:2
.XXXX		±.0005	REF	035059
			FMF	STANDARD
			PAGE	OF

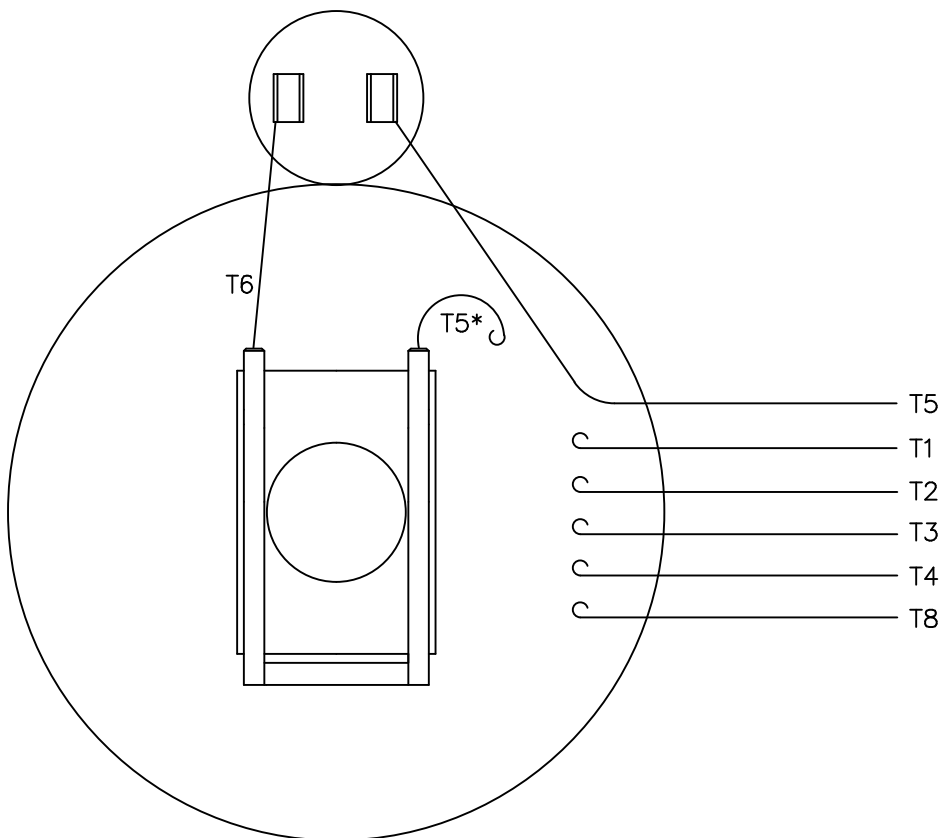
  

REV	DESCRIPTION	DATE
1	THIRD ANGLE PROJECTION	

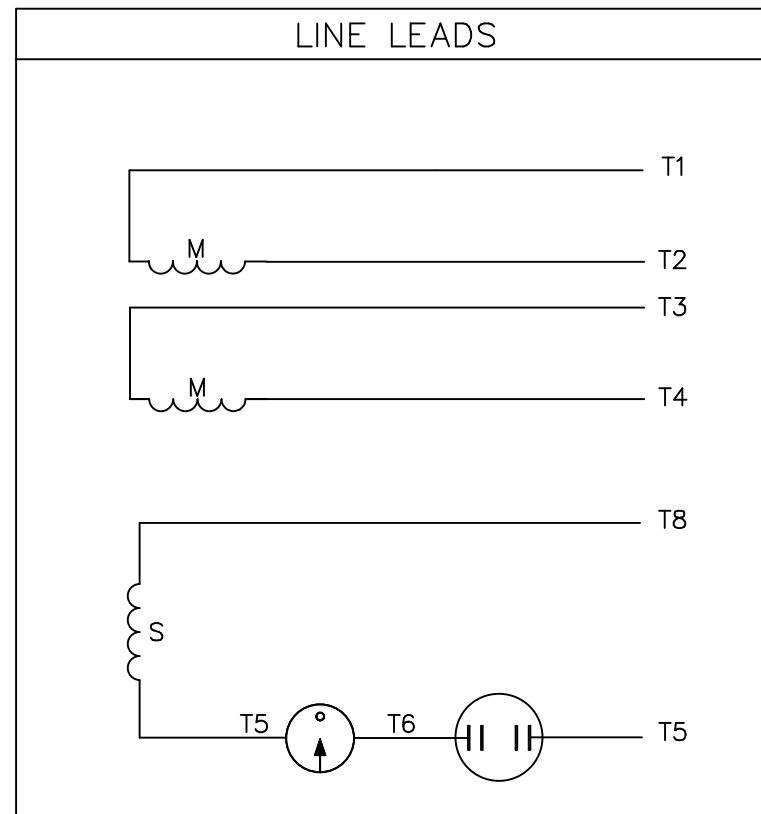
  

NETWORK FILE NAME	FINISH	PREV

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



\* THIS LEAD MAY BE WHITE



	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	---

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED	
				DEC.	INCHES
				.X	±.1
12	ALTERNATE T5 LEAD MARKING WAS RED	RLW 8/6/02	.XX	±.01	
11	ADDED ALTERNATE T5 LEAD MARKING	RLW 5/31/02	KH	.XXX	±.005
10	UPDATED TO CURRENT STANDARDS	DBT 06/09/97		.XXXX	±.0005
				ANG	±1/2"

		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN JRW 12/05/74 CHK APPD T.E.M.
		TITLE EXT. WIRING DIAGRAM TYPE "C" W/O PROTECTOR		SCALE 1=1 REF A-005061
MAT'L. DECAL - 004012		FINISH		FMF PREV
CAD FILE 00506201		SIZE A	DRAWING NO. 005062-01	
RFP DIST NLV		REV. 12		



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

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** 005062.01  
**OUTLINE:** 035371-1000  
**WINDING #:** C8428 3 A

**CATALOG #:** 131544.00  
**MOUNTING:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1800	1740	184TC	DP	J	L

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/230	33.8/16.9	ACROSS THE LINE	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	75.5	3/4 LOAD EFF:	75.5	1/2 LOAD EFF:	74.2	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	76	3/4 LOAD PF:	73	1/2 LOAD PF:	71.3	72		CAP START IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	181.2 / 90.6	24.6 LB-FT 273 %	18.4 LB-FT 204 %	45

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 LB-FT^2	0.4 LB-FT^2	10 SEC.	0	76 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

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

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
6206	6205						

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

\*  
N  
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<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



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

**CERTIFICATION DATA SHEET**

**CUSTOMER:**  
**ORDER #:**  
**CONN. DIAGRAM:** 005062.01  
**OUTLINE:** 035371-1000  
**WINDING #:** C8428 3 A

**CUSTOMER PO#:**  
**CATALOG #:**  
**CUSTOMER PART #:**  
**MOUNTING:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
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FULL LOAD PF:	76	3/4 LOAD PF:	73	1/2 LOAD PF:	71.3	0		CAP START IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	192 / 96	24.6 LB-FT 273 %	21 LB-FT 233 %	45

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 LB-FT^2	0 LB-FT^2	10 SEC.	0	0 LBS.

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DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6206	6205						

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

* N O T E 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

**PREPARED BY:** Dinesh  
Suddula **DATE:**  
02/27/2019 01:17:47 AM  
FORM 3531 REV.3 02/07/99  
\*\* Subject to change without  
notice.



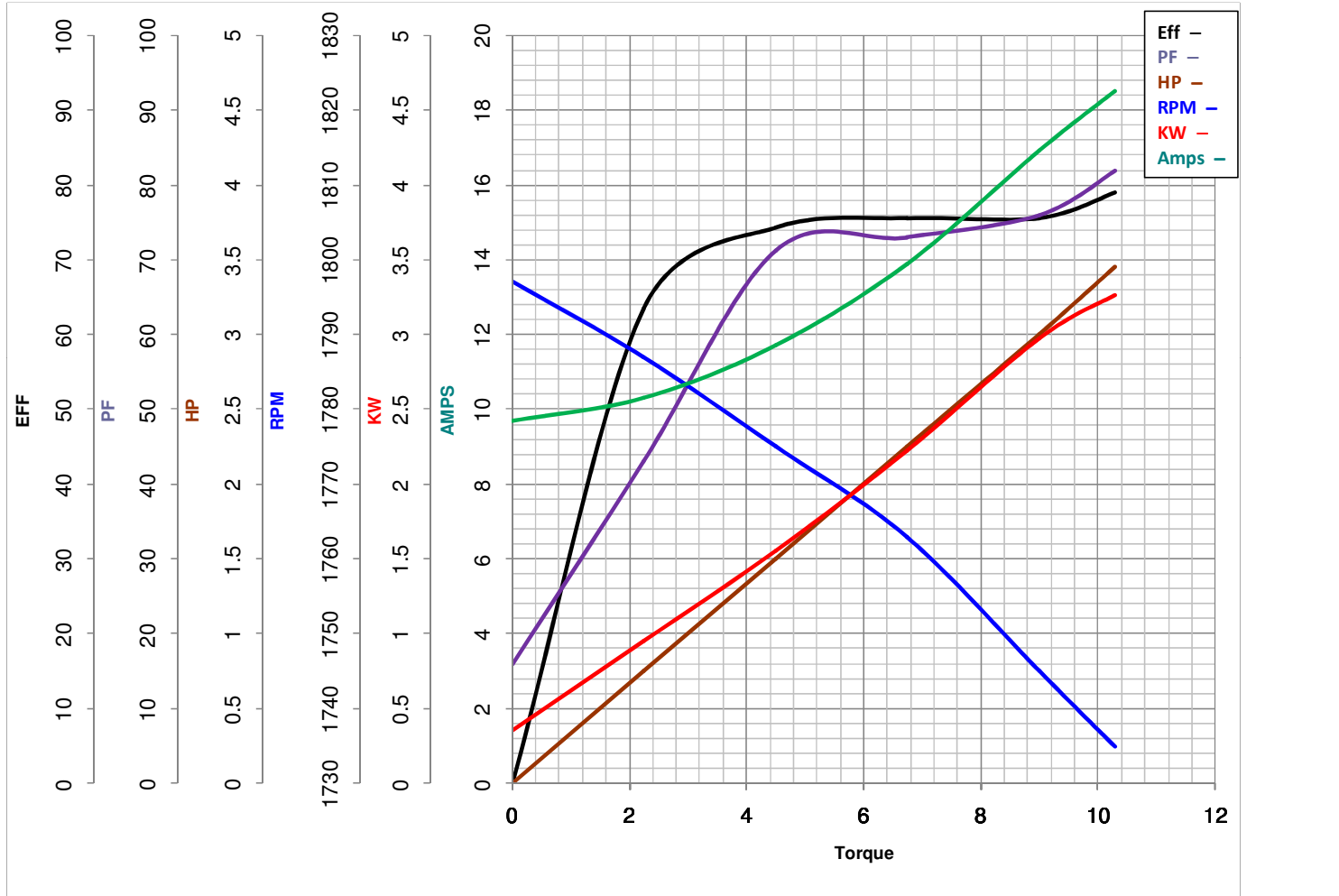
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 131544.00

Curve at 230 Volts      HP 3.00      PHASE 1  
60 HZ  
3 HP      VOLTS 115/230

Catalog No 131544.00

HZ 60      RPM 1740



Torque in Lb.Ft

FL TORQUE 9 Lb.Ft  
 BD TORQUE 18.4 Lb.Ft  
 LR TORQUE 24.6 Lb.Ft

FL AMPS 33.8/16.9  
 PU TORQUE 17.5 Lb.Ft  
 LR AMPS 90.6

WINDING C8428-3

Date 3/27/2018