

# PRODUCT INFORMATION PACKET



Model No: 114424.00

Catalog No: 114424.00

Explosion Proof Motor, 1.50 HP, 1 Ph, 60 Hz, 115/208-230 V, 3600 RPM, 56C Frame, EPFC



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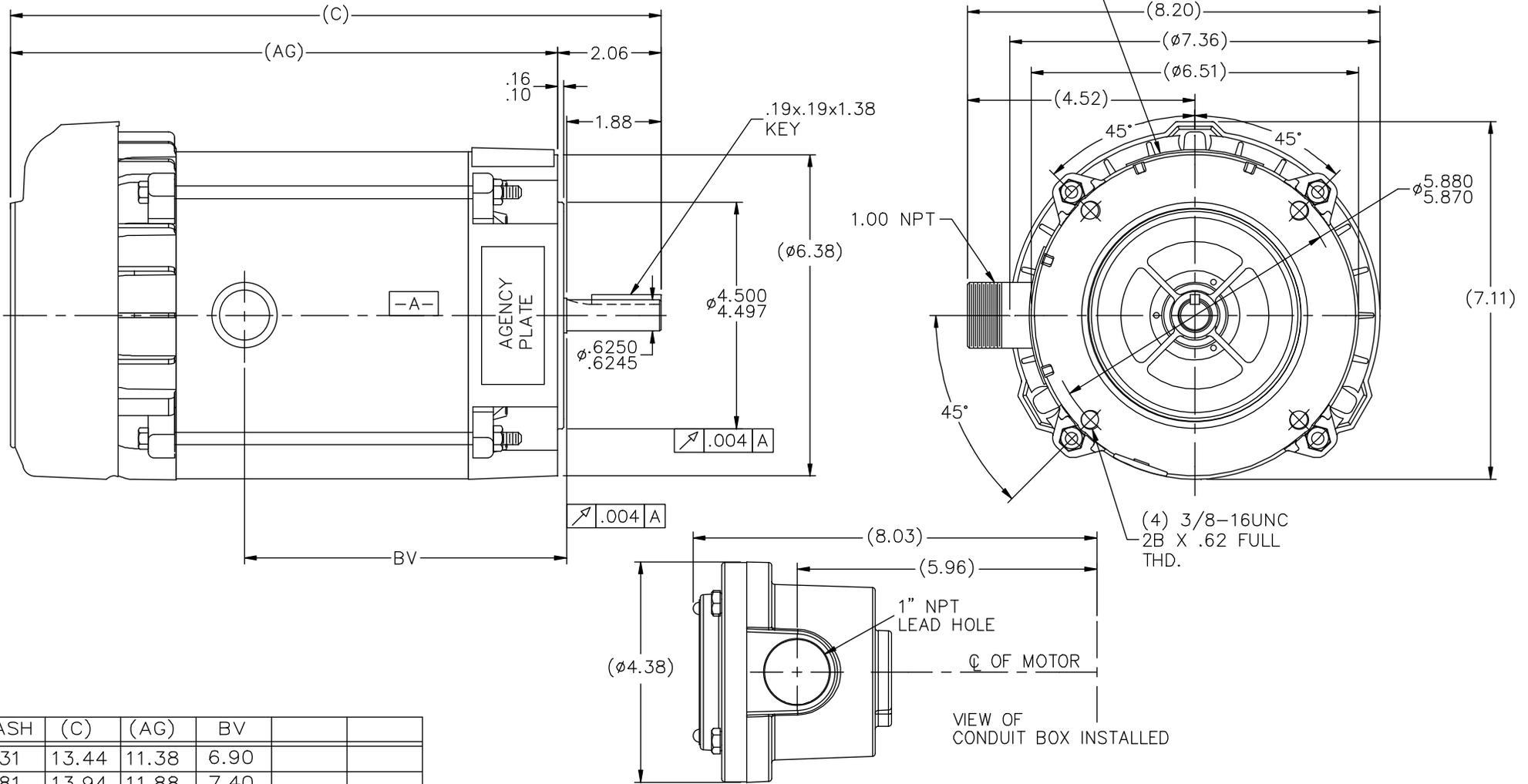
**Nameplate Specifications**

Output HP	<b>1.50 Hp</b>	Output KW	<b>1.1 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>115/208-230 V</b>
Current	<b>15.4/8.4-7.7 A</b>	Speed	<b>3450 rpm</b>
Service Factor	<b>1</b>	Phase	<b>1</b>
Efficiency	<b>77 %</b>	Power Factor	<b>81.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>L</b>	KVA Code	<b>H</b>
Frame	<b>56C</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Automatic</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6203</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>UL Listed And CSA Certified</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>54</b>
Hazardous Location	<b>DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C</b>	Number of Speeds	<b>1</b>

**Technical Specifications**

Electrical Type	<b>Capacitor Start Capacitor Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>2</b>	Rotation	<b>Selective Counterclockwise</b>
Resistance Main	<b>0 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>NEMA 56</b>	Overall Length	<b>14.44 in</b>
Frame Length	<b>7.31 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>1.88 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>A-102006-95-LE</b>	Outline Drawing	<b>B-104188LE-731</b>

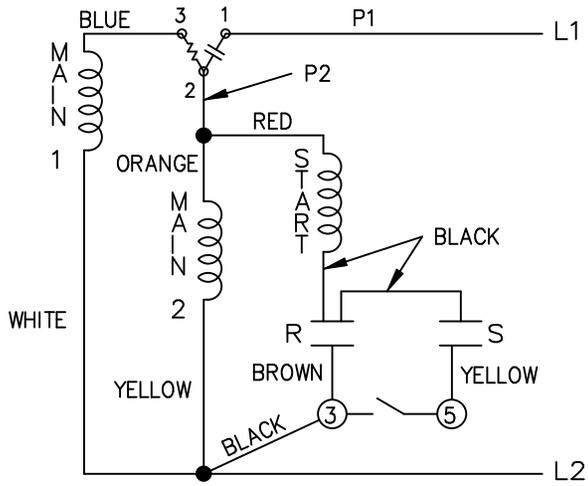
NAMEPLATES TO BE READ FROM SHAFT EXT. END.



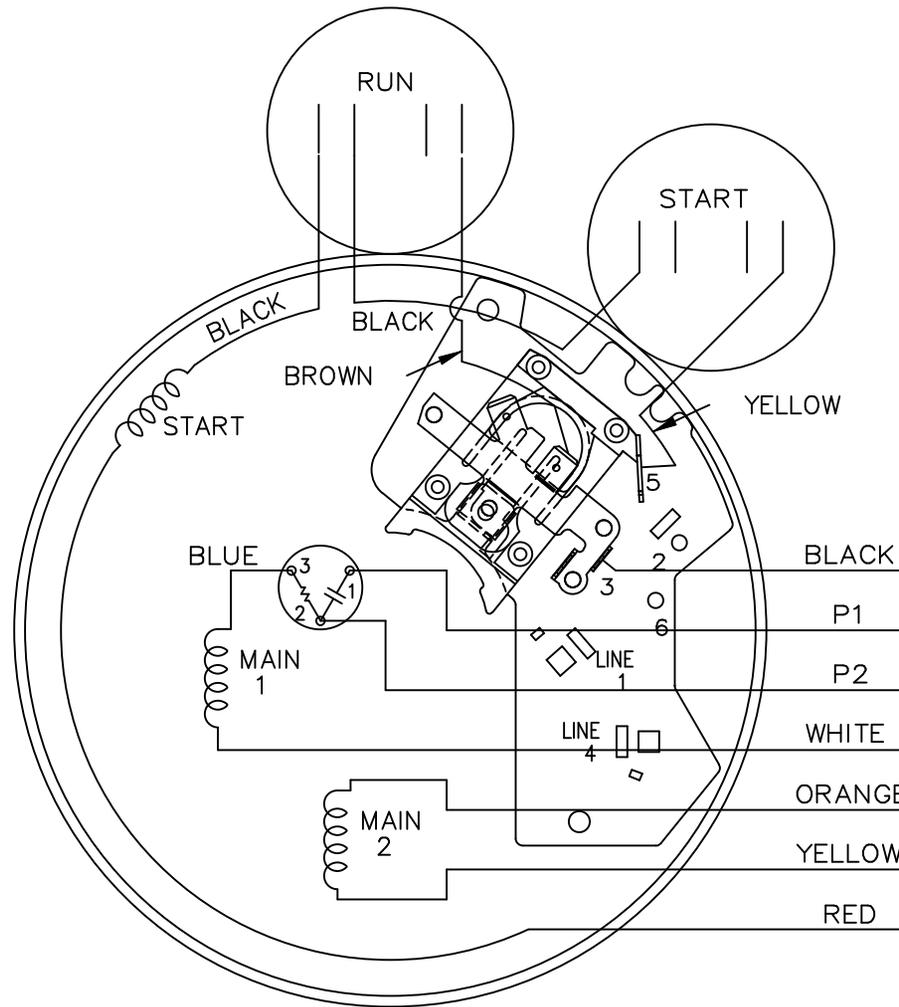
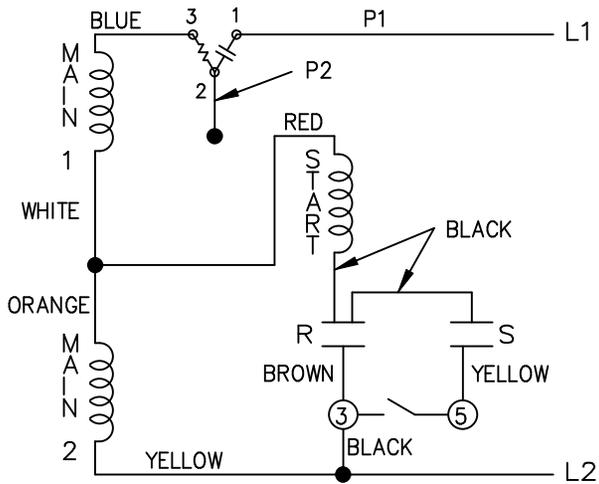
DASH	(C)	(AG)	BV		
631	13.44	11.38	6.90		
681	13.94	11.88	7.40		
731	14.44	12.38	7.90		
781	14.94	12.88	8.40		
831	15.44	13.38	8.90		
881	15.94	13.88	9.40		
931	16.44	14.38	9.90		
981	16.94	14.88	10.40		

		TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN RJW 06-22-2007	
		DEC.	INCHES			CHK	ML 06-22-2007
		.X	±.1			APPD	GK 06-22-2007
		.XX	±.03				SCALE 17=32
		.XXX	±.005			REF	
01	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD	10/10/13	ST	.XXXX ±.0005	MAT'L	
NO.	REVISION	BY & DATE		CHK	ANG ±7'30"	FINISH	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	06-22-2007	CAD FILE	104188LE
				DIST	WP	SIZE	DRAWING NO. PAGE OF REV. B 104188LE 01

LOW VOLTAGE C.C.W.

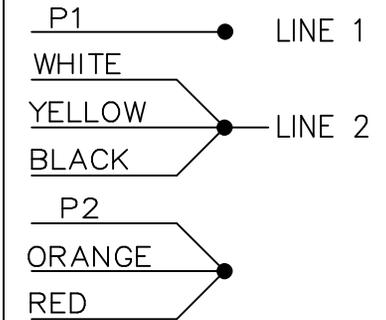


HIGH VOLTAGE C.C.W.

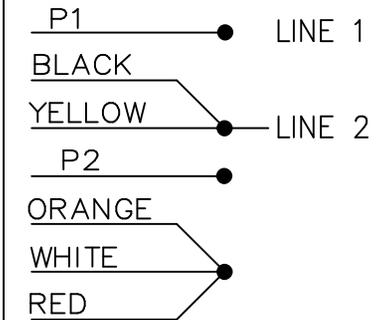


DUAL VOLTAGE  
CAP. START-CAP. RUN  
OVERLOAD SELECT  
ROTATION.

LOW VOLT. CCW ROT.



HIGH VOLT. CCW ROT.



FOR CW ROT. EITHER  
VOLTAGE INTERCHANGE  
RED WITH BLACK LEAD.

TOLERANCES  
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.02

.XXX ±.005

.XXXX ±.0005

ANG ±7'30"



ELECTRIC MOTORS  
GEARMOTORS  
AND DRIVES

DRAWN VL 11/13/2007

CHK

APPD VL 11/13/2007

SCALE 5=8

REV

FMF 116610.00

PREV

TITLE CONNECTION DIAGRAM  
56/140 FR - 1 PH - CSCR - REV - PRT -

MAT'L. FINISH

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**CERTIFICATION DATA SHEET**

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

**CONN. DIAGRAM:** A-102006-95-LE

**CATALOG #:** 114424.00

**OUTLINE:** B-104188LE-731

**MOUNTING:** F1 ONLY

**WINDING #:** ZB256 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2	1.12	3600	3450	56C	EPFC	H	L

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	15.4/8.4-7.7	ACROSS THE LINE	CONTINUOUS	B3	1.0	40

FULL LOAD EFF:	77	3/4 LOAD EFF:	76.6	1/2 LOAD EFF:	72.8	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	81.5	3/4 LOAD PF:	80.4	1/2 LOAD PF:	71.8	74	CAP START CAP RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
2.25 LB-FT	84.4 / 42.2	4.4 LB-FT 196 %	5.38 LB-FT 239 %	60

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 LB-FT^2	0 LB-FT^2	10 SEC.	0	37 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	EXP PROOF CL I GR C&D CL II GR F&G T3C	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL 6203	BALL 6203	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE VOLTS

\*  
N  
O  
T  
E

<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



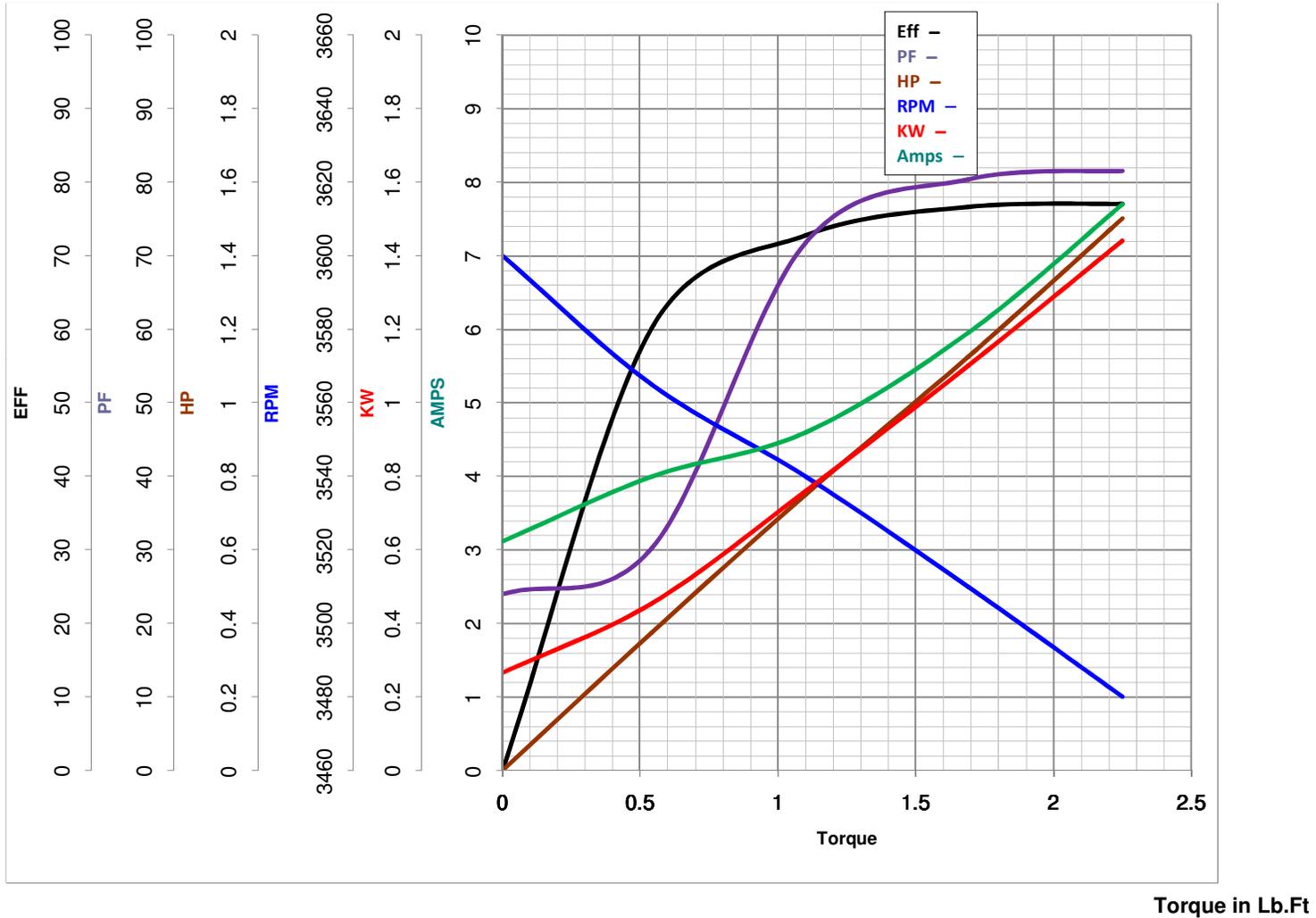
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 114424.00

Catalog No 114424.00

Curve at 230 Volts      HP 1.50      PHASE 1  
60 HZ  
1.5 HP      VOLTS 115/208-230

HZ 60      RPM 3450



FL TORQUE 2.25 Lb.Ft  
 BD TORQUE 5.4 Lb.Ft  
 LR TORQUE 4.4 Lb.Ft

FL AMPS 15.4/8.4-7.7  
 PU TORQUE 3.7 Lb.Ft  
 LR AMPS 42.2

WINDING ZB256-3

Date 3/20/2018