

# PRODUCT INFORMATION PACKET



Model No: 116610.00

Catalog No: 116610.00

Explosion Proof Motor, 0.50 HP, 1 Ph, 60 Hz, 115/208-230 V, 1200 RPM, 56C Frame, EPFC



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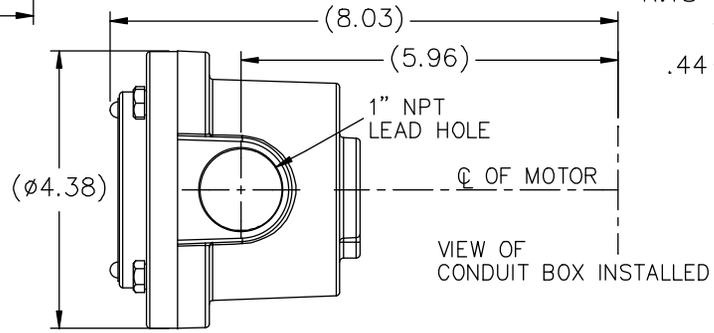
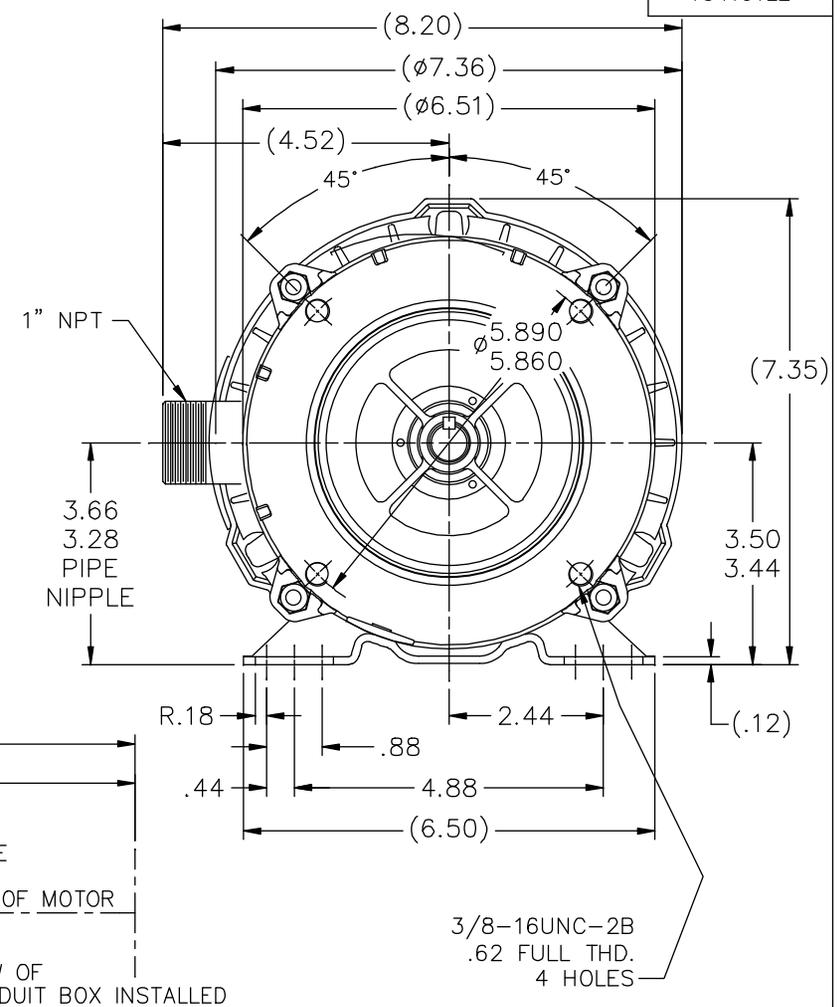
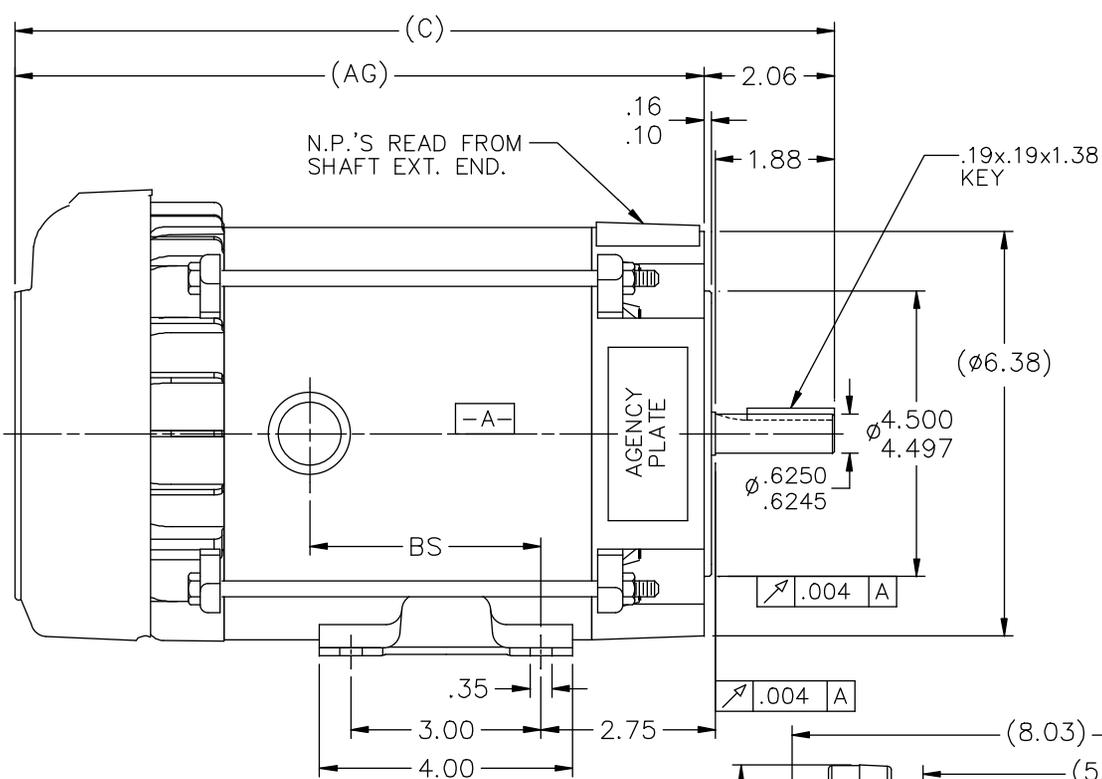


### Nameplate Specifications

Output HP	<b>0.50 Hp</b>	Output KW	<b>0.37 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>115/208-230 V</b>
Current	<b>9.6/4.7-4.8 A</b>	Speed	<b>1140 rpm</b>
Service Factor	<b>1</b>	Phase	<b>1</b>
Efficiency	<b>64 %</b>	Power Factor	<b>56</b>
Duty	<b>Continuous</b>	Insulation Class	<b>B</b>
Design Code	<b>L</b>	KVA Code	<b>M</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

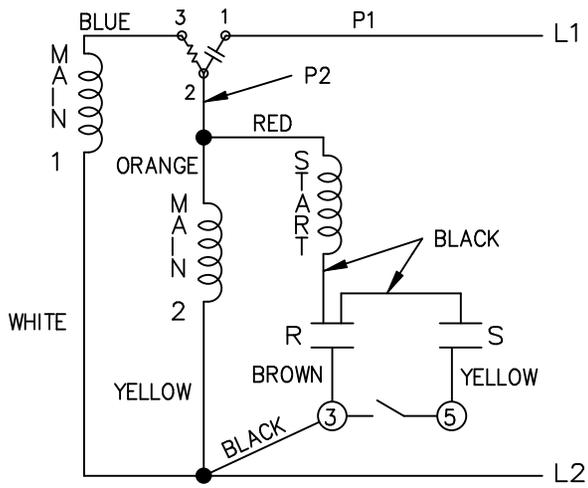
Electrical Type	<b>Capacitor Start Capacitor Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>6</b>	Rotation	<b>Selective Counterclockwise</b>
Resistance Main	<b>0 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>NEMA 56</b>	Overall Length	<b>14.94 in</b>
Frame Length	<b>7.81 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>1.88 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Outline Drawing	<b>B-104191LE-781</b>	Connection Drawing	<b>A-102006-95-LE</b>



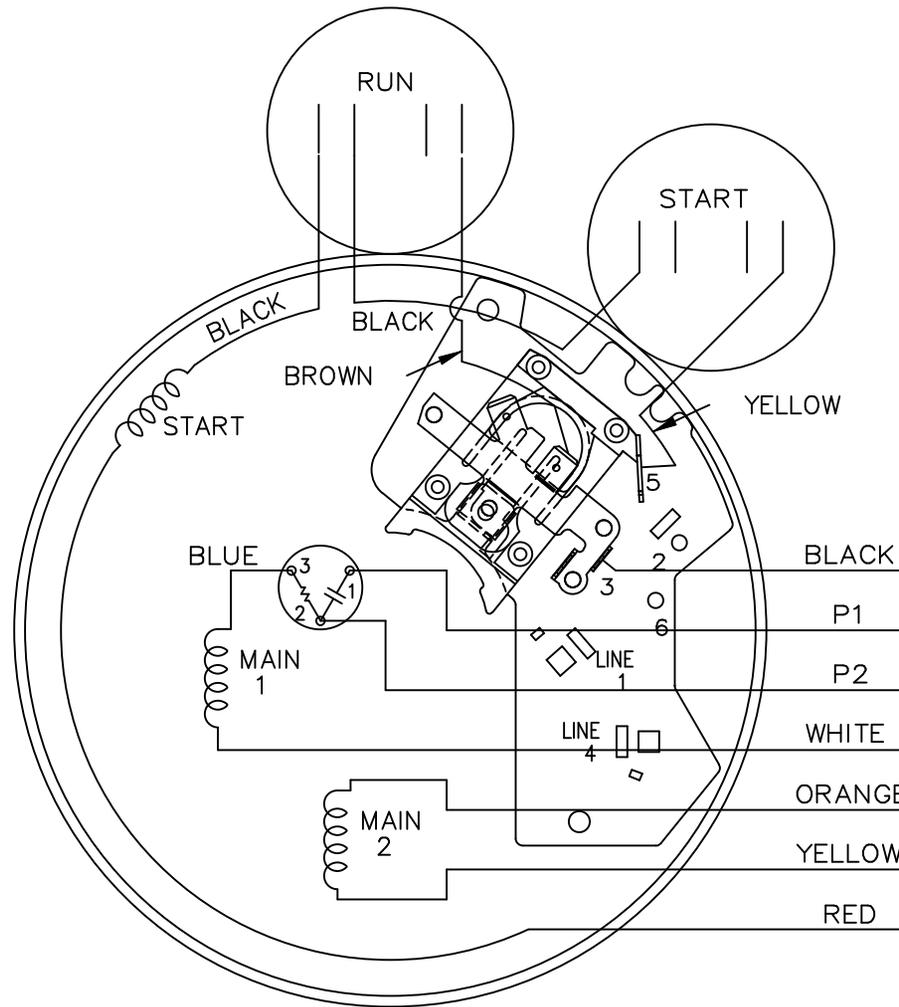
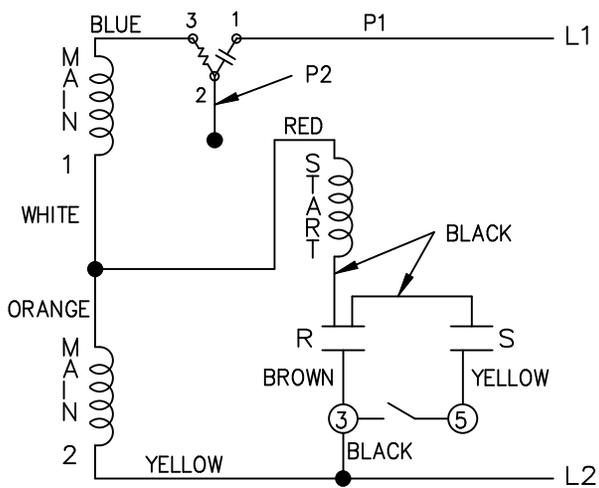
DASH	(C)	(AG)	BS		
631	13.44	11.38	4.15		
681	13.94	11.88	4.65		
731	14.44	12.38	5.15		
781	14.94	12.88	5.65		
831	15.44	13.38	6.15		
881	15.94	13.88	6.65		
931	16.44	14.38	7.15		
981	16.94	14.88	7.65		

		TOLERANCES UNLESS SPECIFIED		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN HLB 05-29-2002	
		DEC.	INCHES			CHK	ML 05-31-2002
		.X	±.1	TITLE OUTLINE - 'C' FACE		APPD	SAS 05-31-2002
3	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD	10/15/13	ST	.XX ±.03	SCALE	1=2
2	REVISED C'BOX PER CN 40784A	JJB	02/26/2007	ML	.XXX ±.005	REF	
1	NEW DRAWING	HLB	05-31-2002		.XXXX ±.0005	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	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	CAD FILE 104191LE	SIZE	DRAWING NO. PAGE OF REV.
				DIST	WP	B	104191LE 3

LOW VOLTAGE C.C.W.

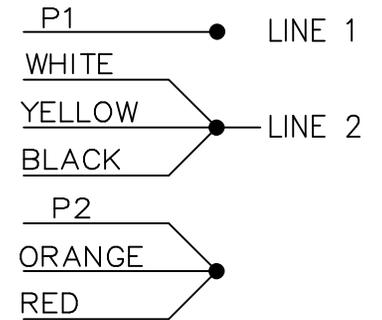


HIGH VOLTAGE C.C.W.

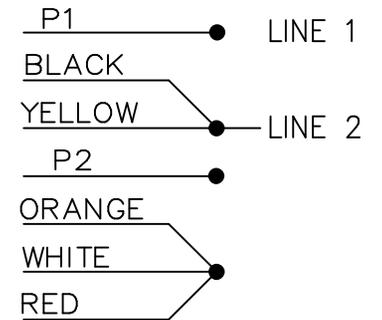


DUAL VOLTAGE  
CAP. START-CAP. RUN  
OVERLOAD SELECT  
ROTATION.

LOW VOLT. CCW ROT.



HIGH VOLT. CCW ROT.



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

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN VL 11/13/2007
				DEC.	INCHES		CHK
				.X	±.1		APPD VL 11/13/2007
				.XX	±.02		SCALE 5=8
				.XXX	±.005		REV
				.XXXX	±.0005	MAT'L.	FMF 116610.00
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				DIST WP			DRAWING NO. 102006-95-LE
							PAGE OF REV.



**CERTIFICATION DATA SHEET**

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

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

**CATALOG #:** 116610.00

**OUTLINE:** B-104191LE-781

**MOUNTING:** F1 ONLY

**WINDING #:** ZB601 R1 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1200	1140	56C	EPFC	M	L

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	9.6/4.7-4.8	ACROSS THE LINE	CONTINUOUS	B3	1.0	40

FULL LOAD EFF:	64	3/4 LOAD EFF:	60.5	1/2 LOAD EFF:	52.5	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	56	3/4 LOAD PF:	47	1/2 LOAD PF:	38	59.5		CAP START CAP RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
35.9 OZ-FT	47 / 23.5	109 OZ-FT - %	104 OZ-FT - %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
50 dBA	60 dBA	0 LB-FT^2	0 LB-FT^2	10 SEC.	0	56 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	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



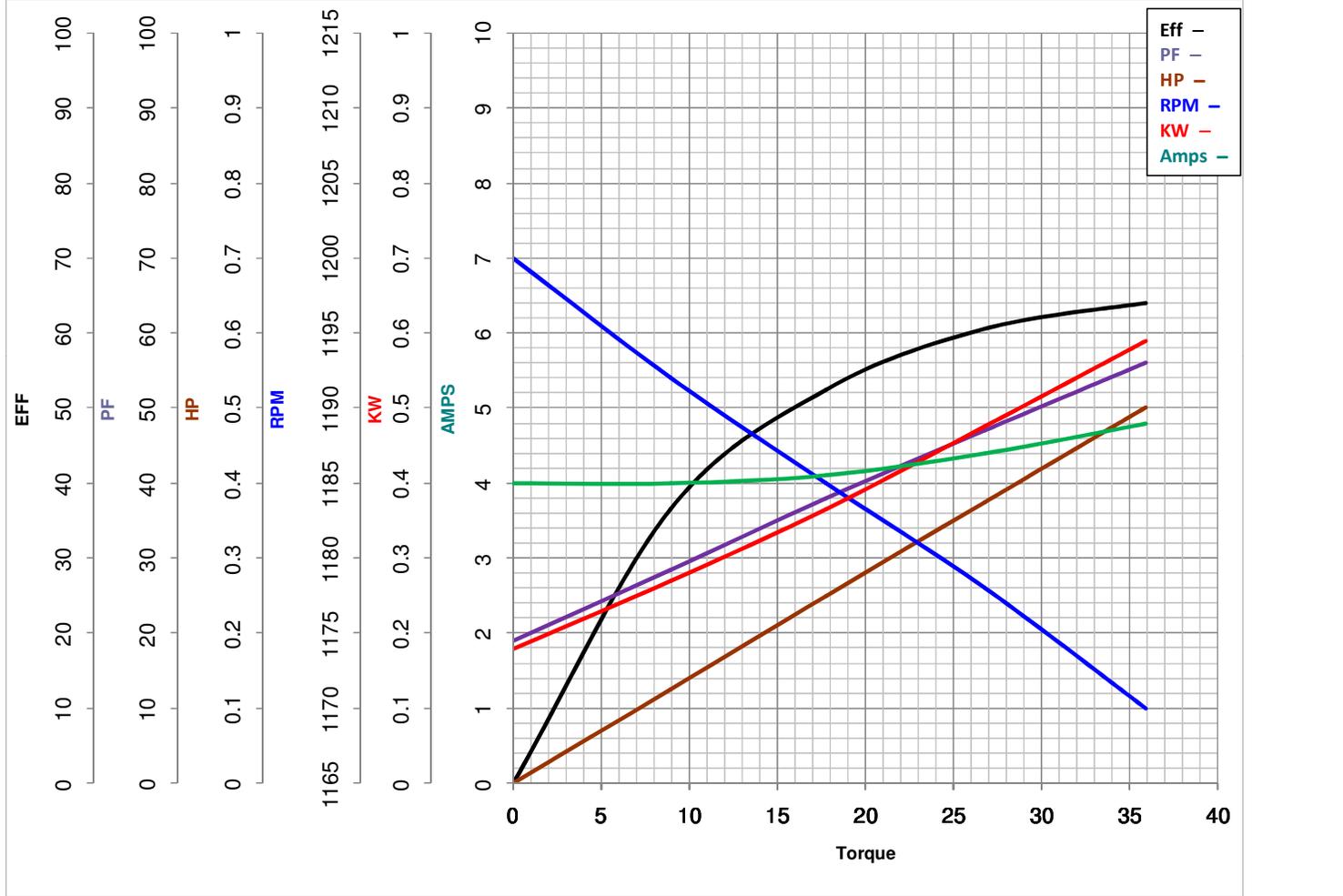
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 116610.00

Curve at 230 Volts      HP 0.50      PHASE 1  
60 HZ  
0.5 HP      VOLTS 115/208-230

Catalog No 116610.00

HZ 60      RPM 1140



<b>FL TORQUE</b>	<u>35.9</u> Oz.Ft	<b>FL AMPS</b>	<u>9.6/4.7-4.8</u>
<b>BD TORQUE</b>	<u>104.0</u> Oz.Ft	<b>PU TORQUE</b>	<u>78.9</u> Oz.Ft
<b>LR TORQUE</b>	<u>109</u> Oz.Ft	<b>LR AMPS</b>	<u>23.5</u>
<b>WINDING</b>	ZB601-3	<b>Date</b>	4/24/2018