

PRODUCT INFORMATION PACKET



Model No: 116615.00

Catalog No: 116615.00

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



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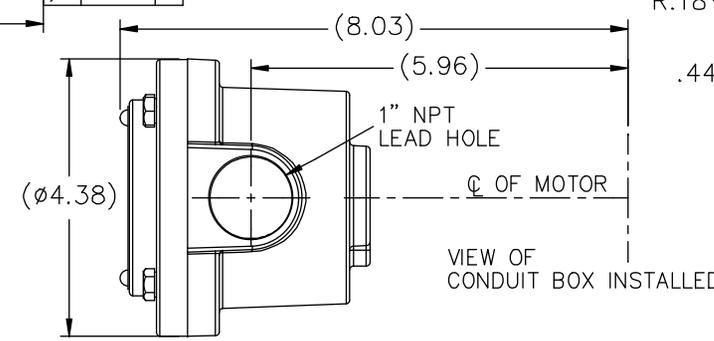
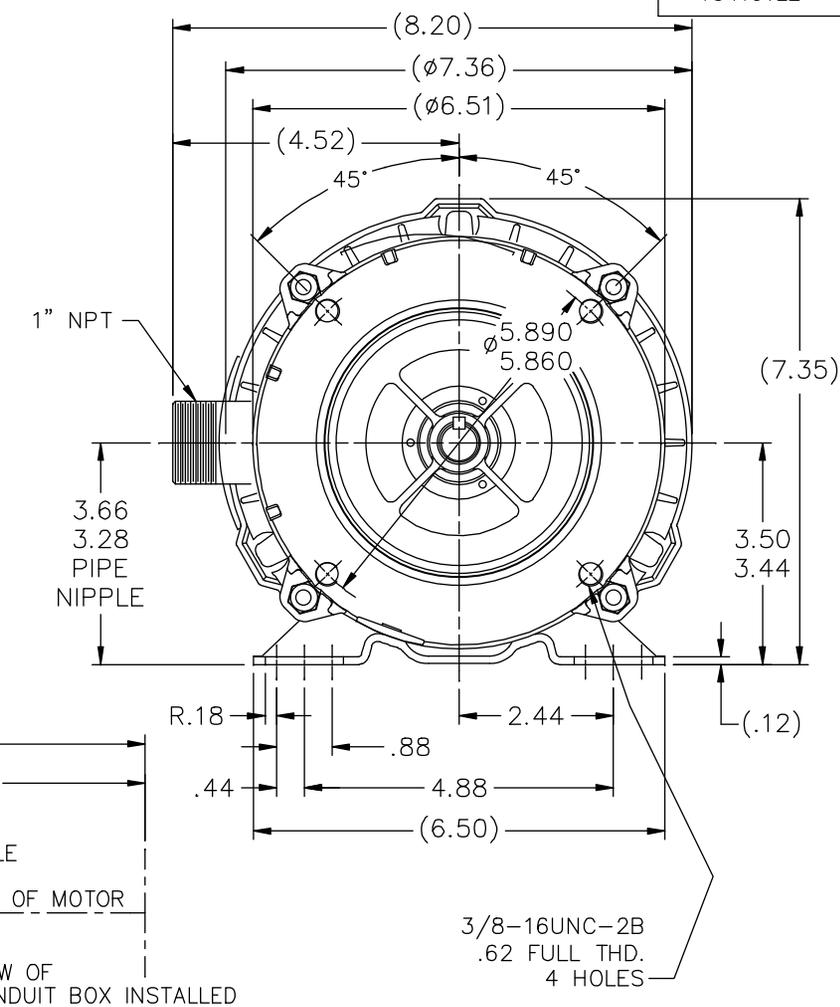
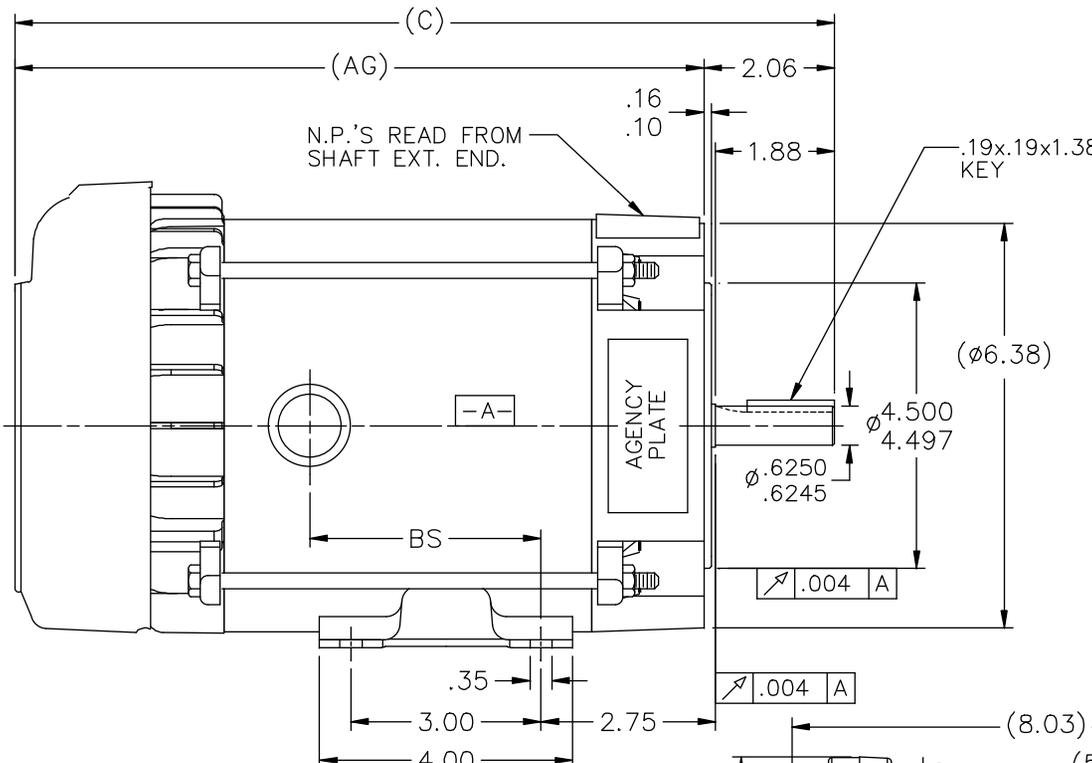


Nameplate Specifications

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

Technical Specifications

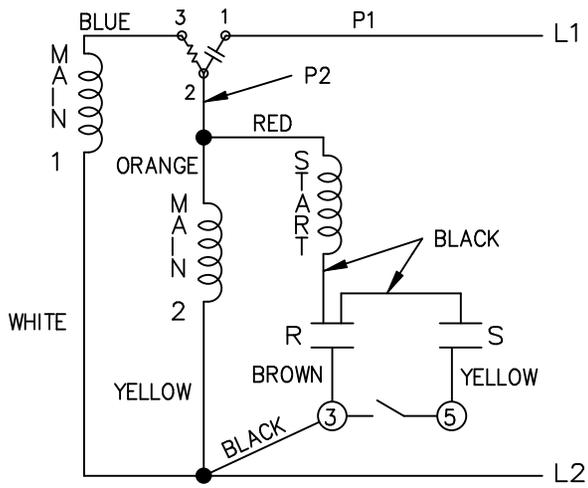
Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	14.44 in
Frame Length	7.31 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-102006-95-LE	Outline Drawing	B-104191LE-731



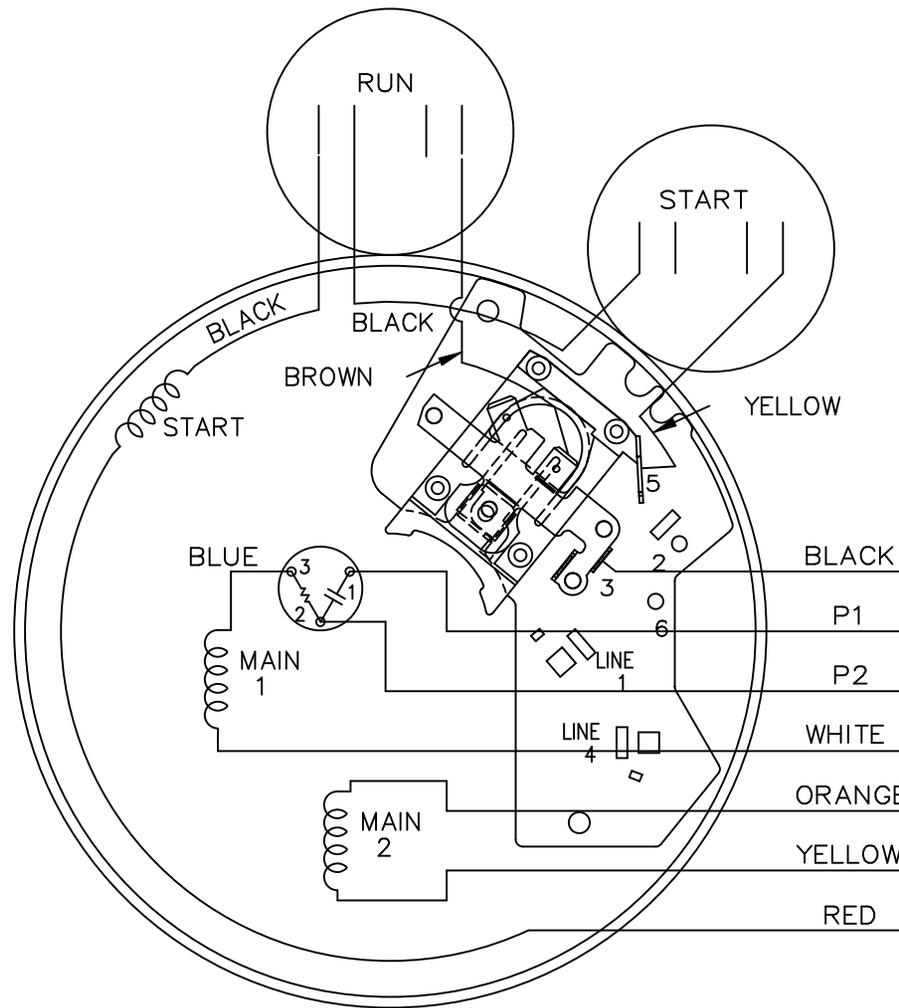
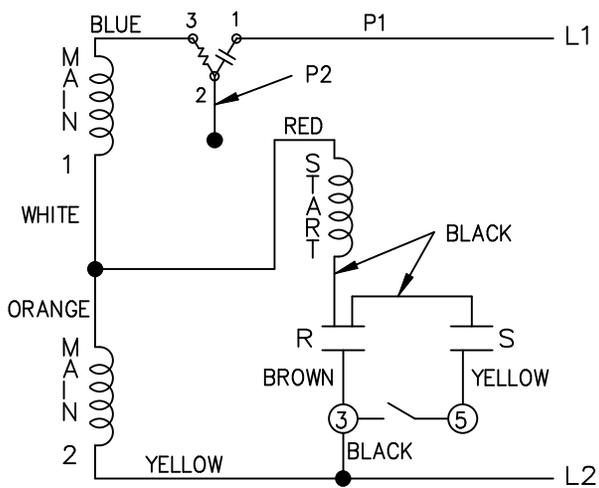
DASH	(C)	(AG)	BS		
631	13.44	11.38	4.15		
681	13.94	11.88	4.65		
731	14.44	12.38	5.15		
781	14.94	12.88	5.65		
831	15.44	13.38	6.15		
881	15.94	13.88	6.65		
931	16.44	14.38	7.15		
981	16.94	14.88	7.65		

		TOLERANCES UNLESS SPECIFIED		LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN HLB 05-29-2002		
		DEC.	INCHES					CHK	ML 05-31-2002	
		.X	±.1					APPD	SAS 05-31-2002	
3	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD	10/15/13	ST	.XX	±.03	TITLE OUTLINE - 'C' FACE	SCALE	1=2	
2	REVISED C'BOX PER CN 40784A	JJB	02/26/2007	ML	.XXX	±.005	56 FR. - EXP. PR.	REF		
1	NEW DRAWING	HLB	05-31-2002		.XXXX	±.0005	MAT'L.	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	3

LOW VOLTAGE C.C.W.

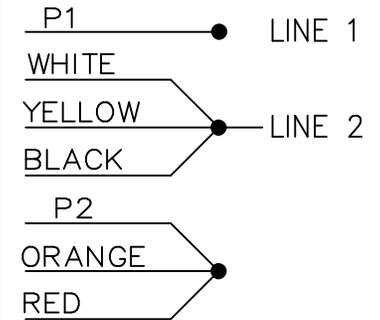


HIGH VOLTAGE C.C.W.

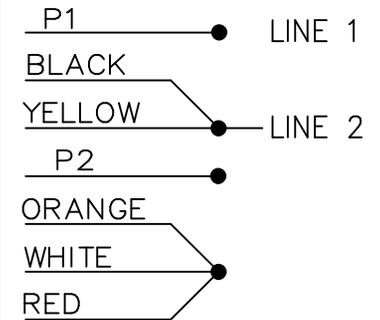


DUAL VOLTAGE
CAP. START-CAP. RUN
OVERLOAD SELECT
ROTATION.

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			
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV			
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				DIST	WP					



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

CATALOG #: 116615.00

CONN. DIAGRAM: A-102006-95-LE

OUTLINE: B-104191LE-731

WINDING #: ZB256 3

MOUNTING: F1 ONLY

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	45 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	BALL	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

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

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

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** Subject to change without notice.



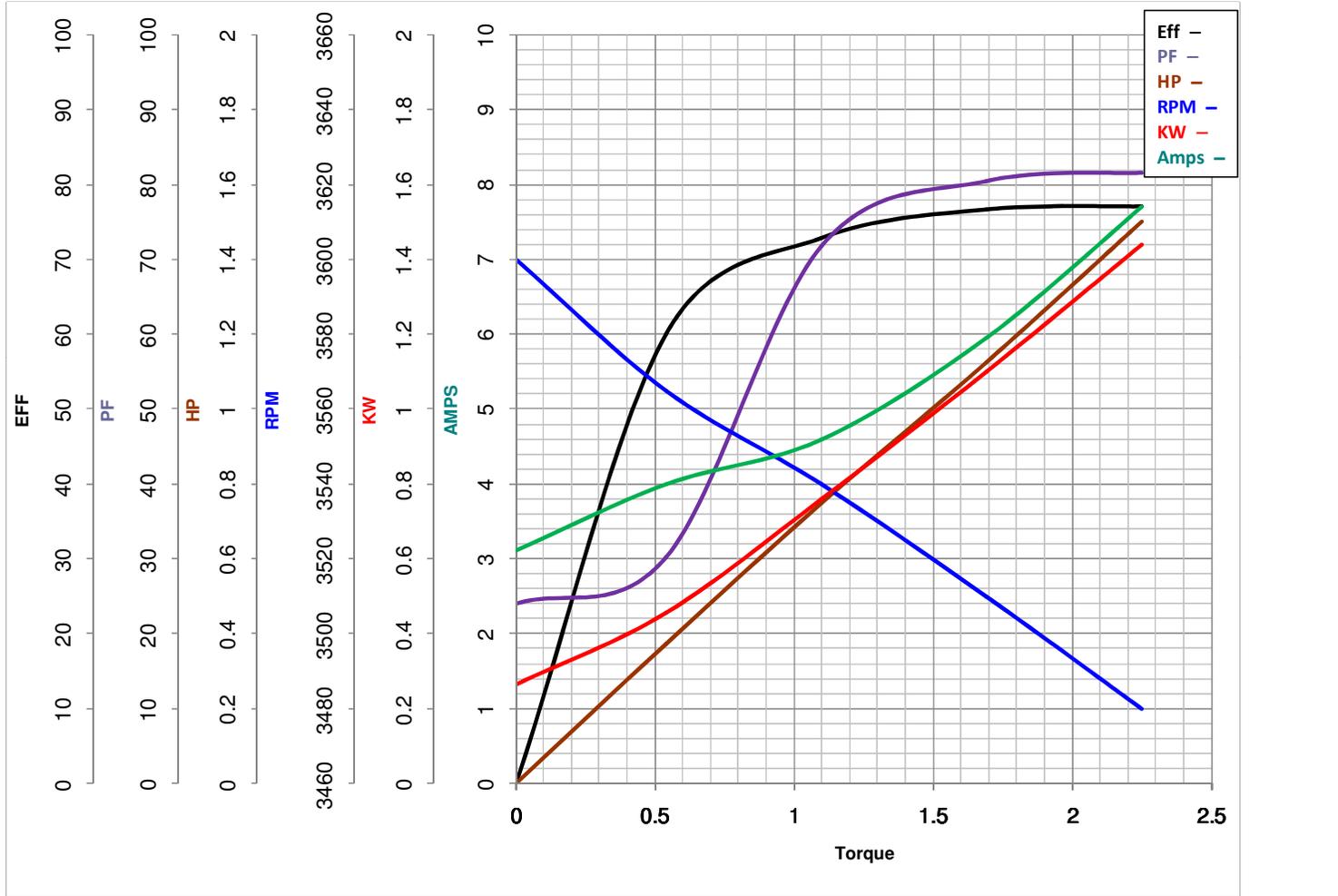
LEESON ELECTRIC CORPORATION
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 116615.00

Catalog No 116615.00

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

HZ 60 RPM 3450



FL TORQUE	<u>2.25</u>	Lb.Ft	FL AMPS	<u>15.4/8.4-7.7</u>
BD TORQUE	<u>5.4</u>	Lb.Ft	PU TORQUE	<u>3.7</u> Lb.Ft
LR TORQUE	<u>4.4</u>	Lb.Ft	LR AMPS	<u>42.2</u>
WINDING	ZB256-3		Date	3/14/2018