

PRODUCT INFORMATION PACKET



Model No: 116607.00

Catalog No: 116607.00

Explosion Proof Motor, 0.33 HP, 1 Ph, 60 Hz, 115/208-230 V, 1200 RPM, 56C Frame, EPFC



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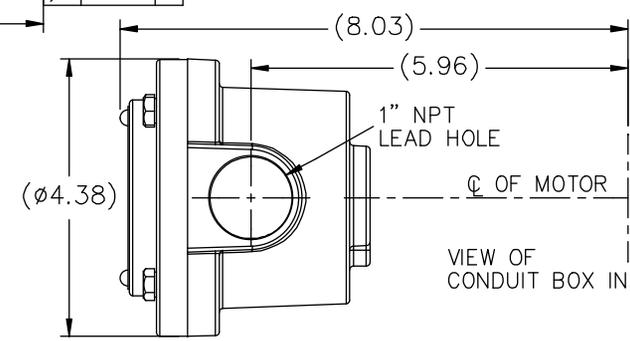
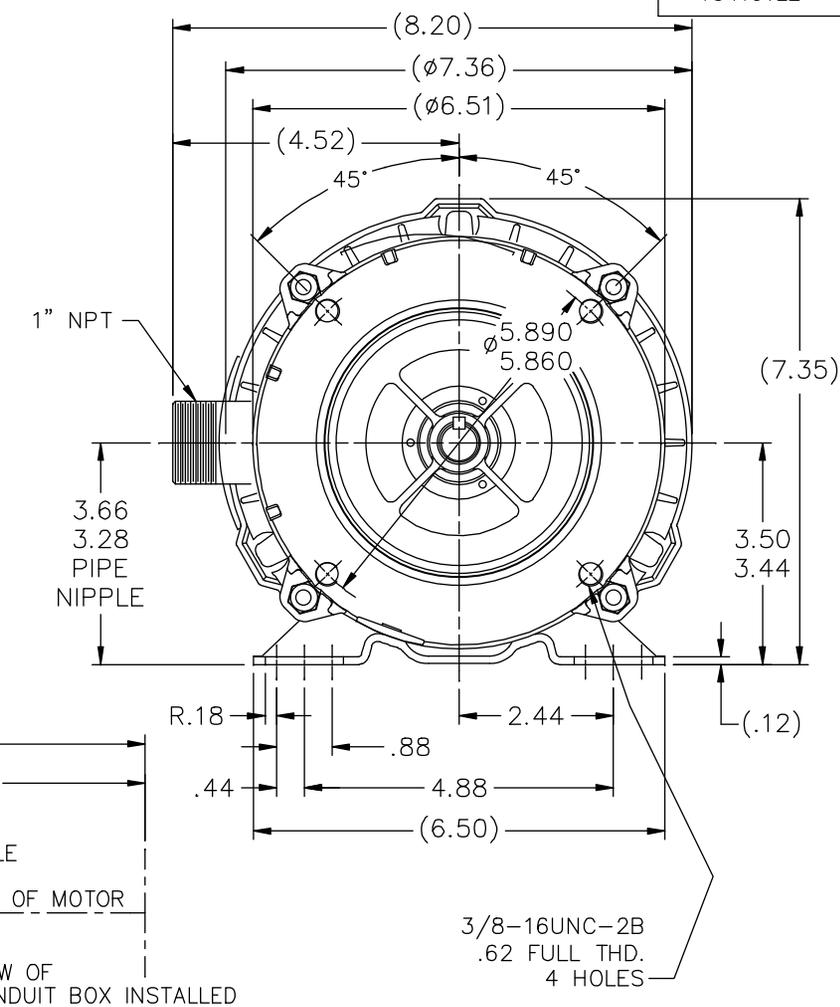
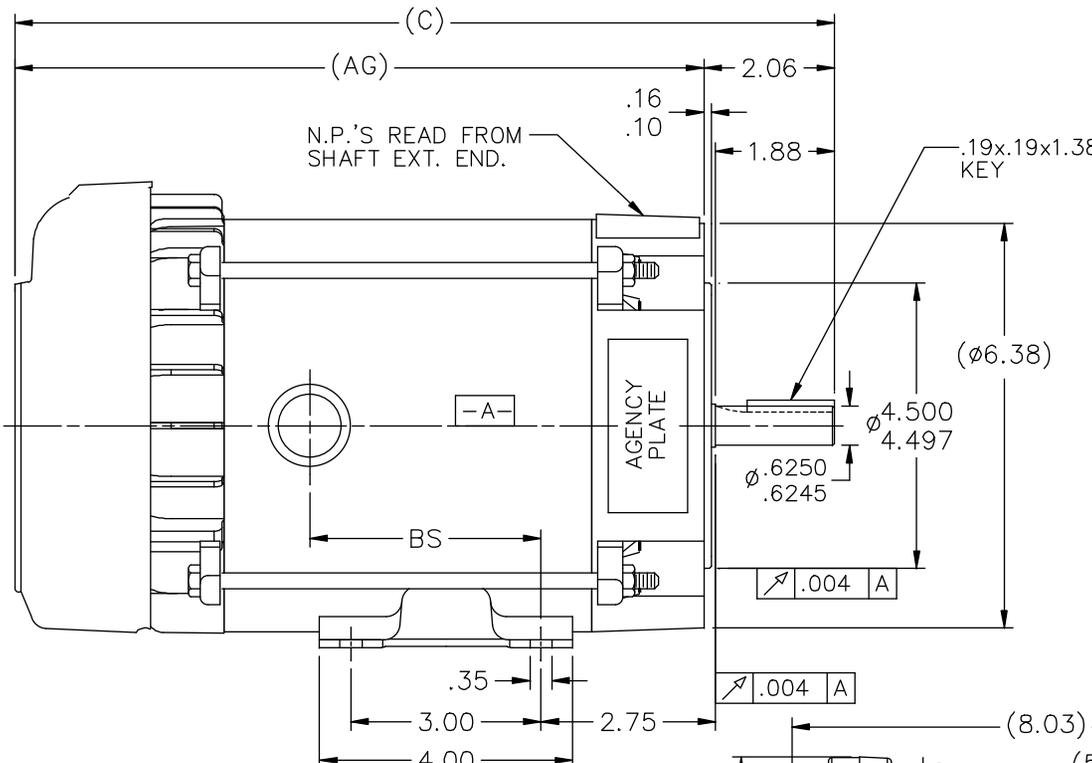


Nameplate Specifications

Output HP	0.33 Hp	Output KW	0.25 kW
Frequency	60 Hz	Voltage	115/208-230 V
Current	7.8/3.6-3.9 A	Speed	1140 rpm
Service Factor	1	Phase	1
Efficiency	52.5 %	Power Factor	53.8
Duty	Continuous	Insulation Class	B
Design Code	N	KVA Code	N
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

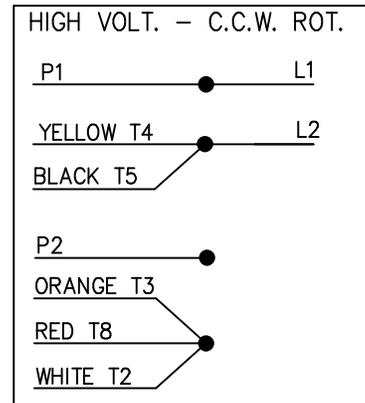
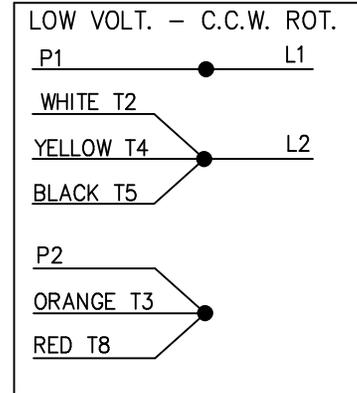
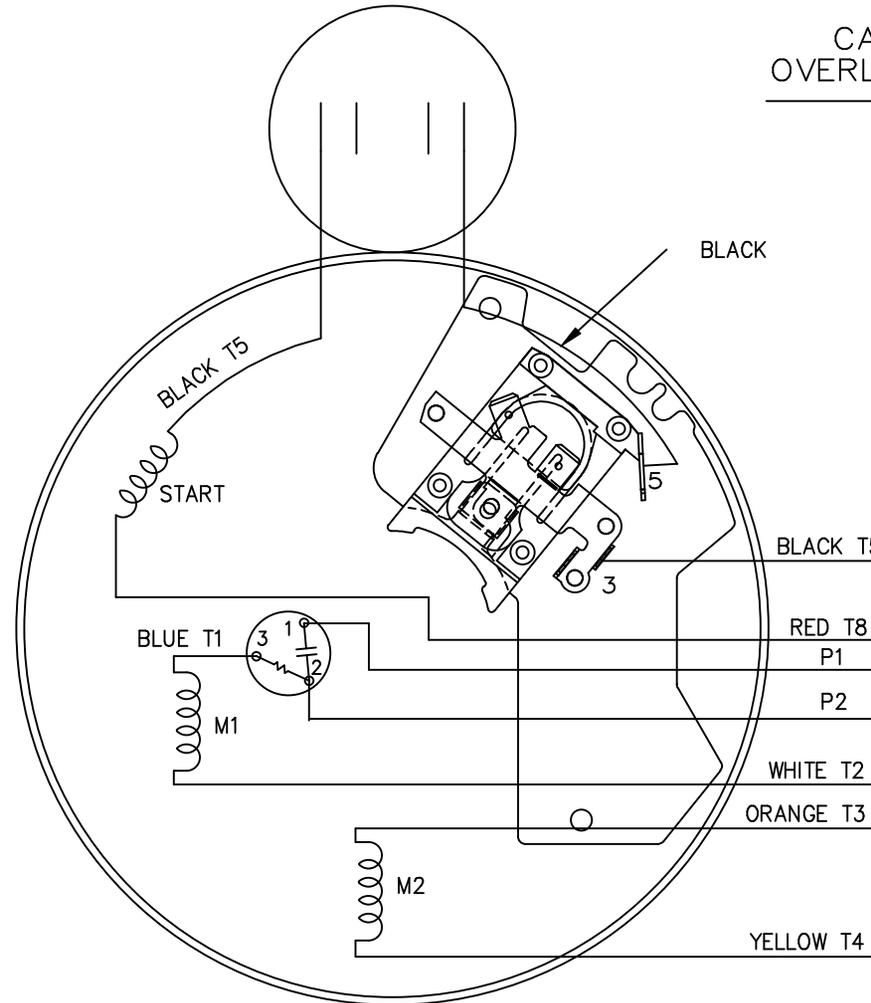
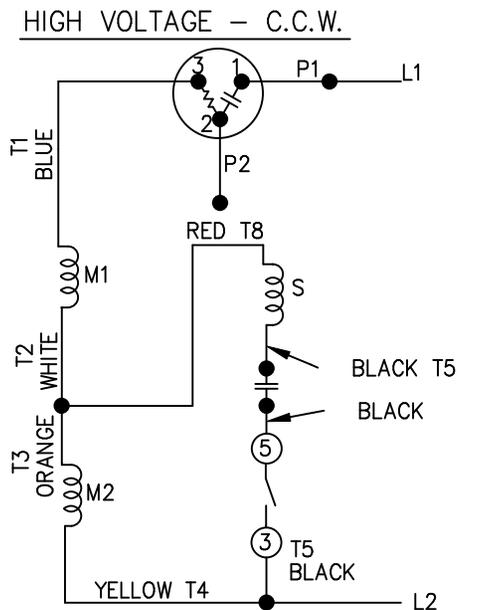
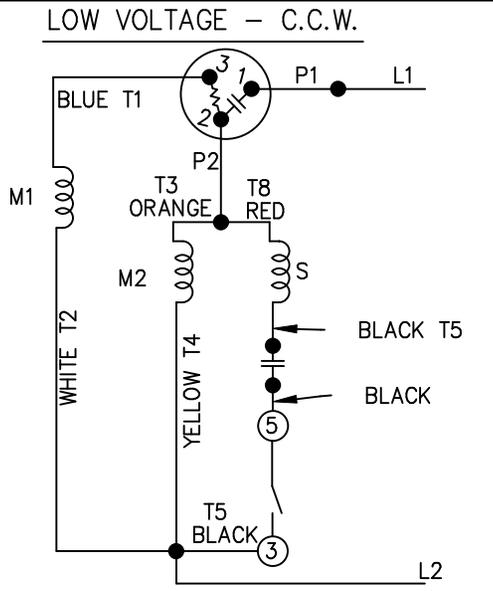
Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Selective Counterclockwise
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	13.94 in
Frame Length	6.81 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-102005-84-LE	Outline Drawing	B-104191LE-681



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

DUAL VOLTAGE
CAPACITOR START
OVERLOAD SELECT ROT.



FOR C.W. ROTATION
EITHER VOLTAGE
INTERCHANGE RED(T8)
WITH BLACK(T5) LEAD

TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.02

.XXX ±.005

ML .XXXX ±.0005

CHK ANG ±7'30"

RFP

DIST WP



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

TITLE CONNECTION DIAGRAM

DRAWN VL 08-08-2007

CHK

APPD

SCALE 5=8

REF

FMF 56M1072

PREV

1	REV'D CONNECTION TO MATCH ROTATION ISAAC 07-2021	JJB 09/05/2007	ML	.XXXX	±.0005	MAT'L.
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH

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CAD FILE 102005_84_LE

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A 102005-84-LE 1



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

CERTIFICATION DATA SHEET

CATALOG #: 116607.00

CONN. DIAGRAM: A-102005-84-LE

OUTLINE: B-104191LE-681

MOUNTING: F1 ONLY

WINDING #: ZC605 R1 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/3	0.25	1200	1140	56C	EPFC	N	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	7.8/3.6-3.9	ACROSS THE LINE	CONTINUOUS	B3	1.0	40

FULL LOAD EFF:	52.5	3/4 LOAD EFF:	47.9	1/2 LOAD EFF:	39.4	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	53.8	3/4 LOAD PF:	44.6	1/2 LOAD PF:	36.8	50.5		CAP START IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24 OZ-FT	35.8 / 17.9	77.1 OZ-FT 321 %	66.9 OZ-FT 279 %	68

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	33 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

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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

** Subject to change without notice.



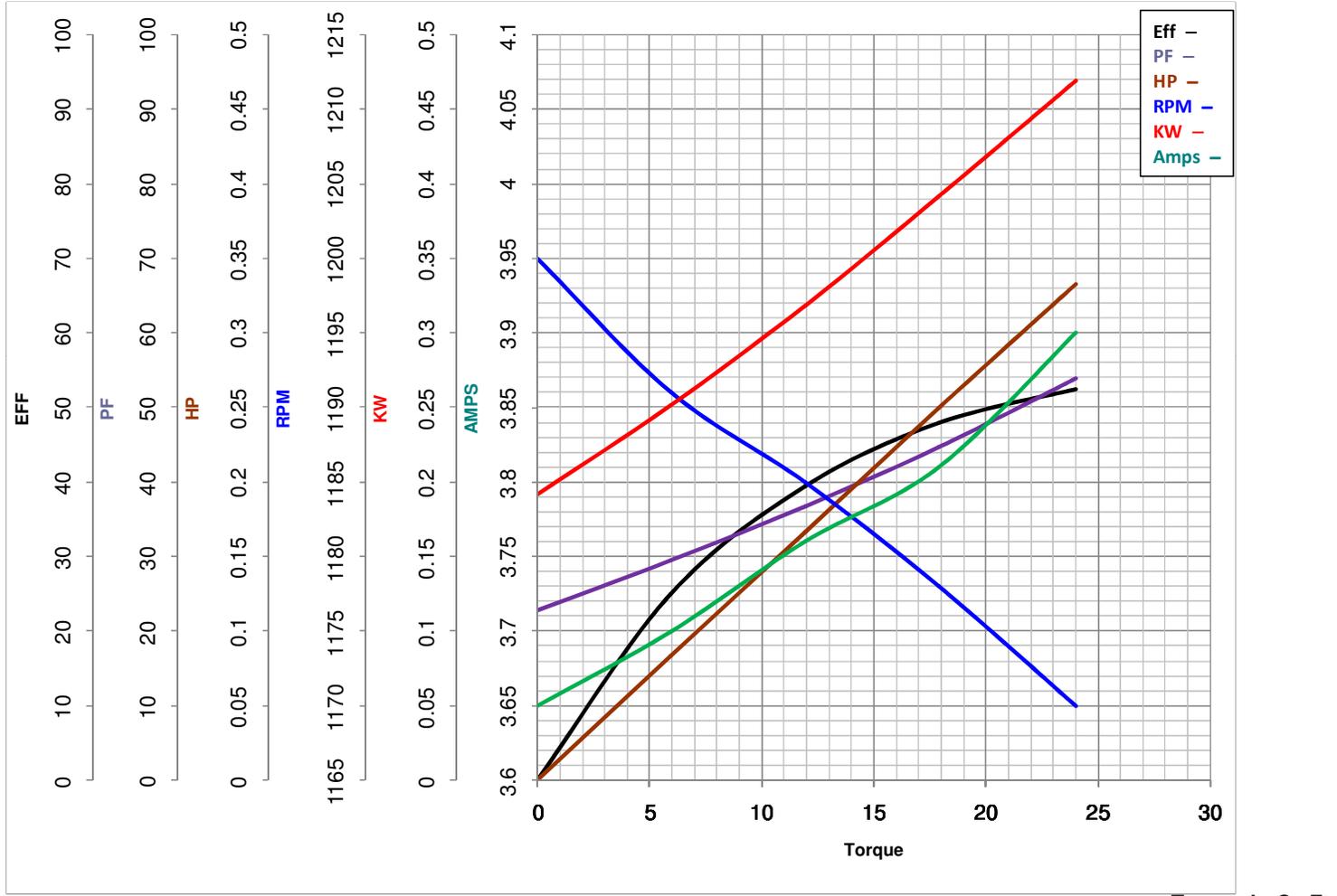
LEESON ELECTRIC CORPORATION
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 116607.00

Catalog No 116607.00

Curve at 230 Volts HP 0.34 PHASE 1
60 HZ
0.333 HP VOLTS 115/208-230

HZ 60 RPM 1140



FL TORQUE	<u>24</u>	Oz.Ft	FL AMPS	<u>7.8/3.6-3.9</u>
BD TORQUE	<u>66.9</u>	Oz.Ft	PU TORQUE	<u>52.9</u> Oz.Ft
LR TORQUE	<u>77.1</u>	Oz.Ft	LR AMPS	<u>17.9</u>
WINDING	<u>ZC605-3</u>		Date	<u>3/14/2018</u>