

PRODUCT INFORMATION PACKET



Model No: 116609.00

Catalog No: 116609.00

Explosion Proof Motor, 0.50 HP, 1 Ph, 60 Hz, 115/208-230 V, 1800 RPM, 56C Frame, EPFC



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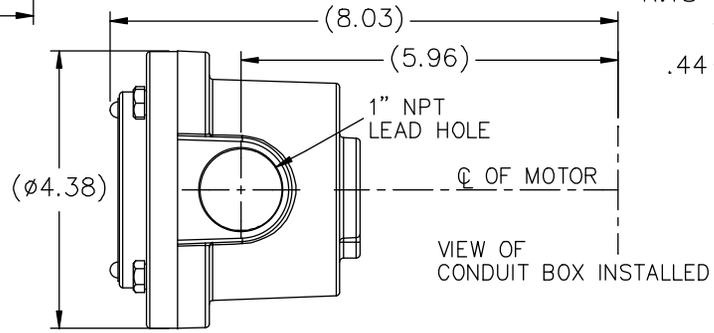
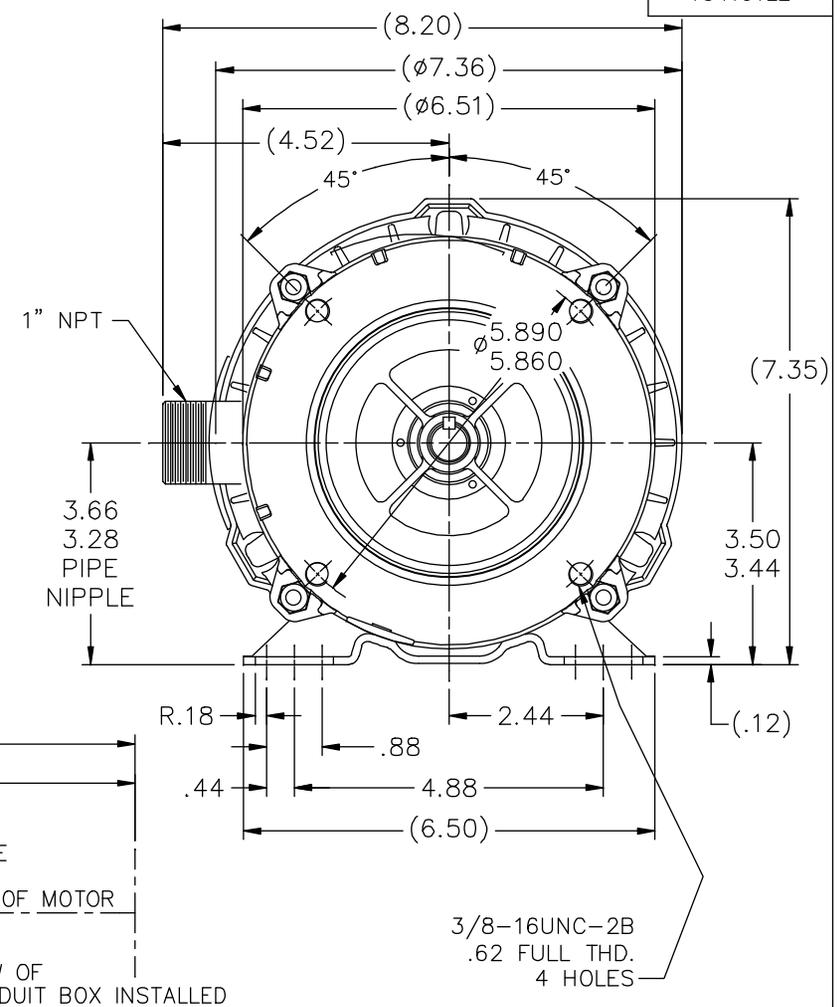
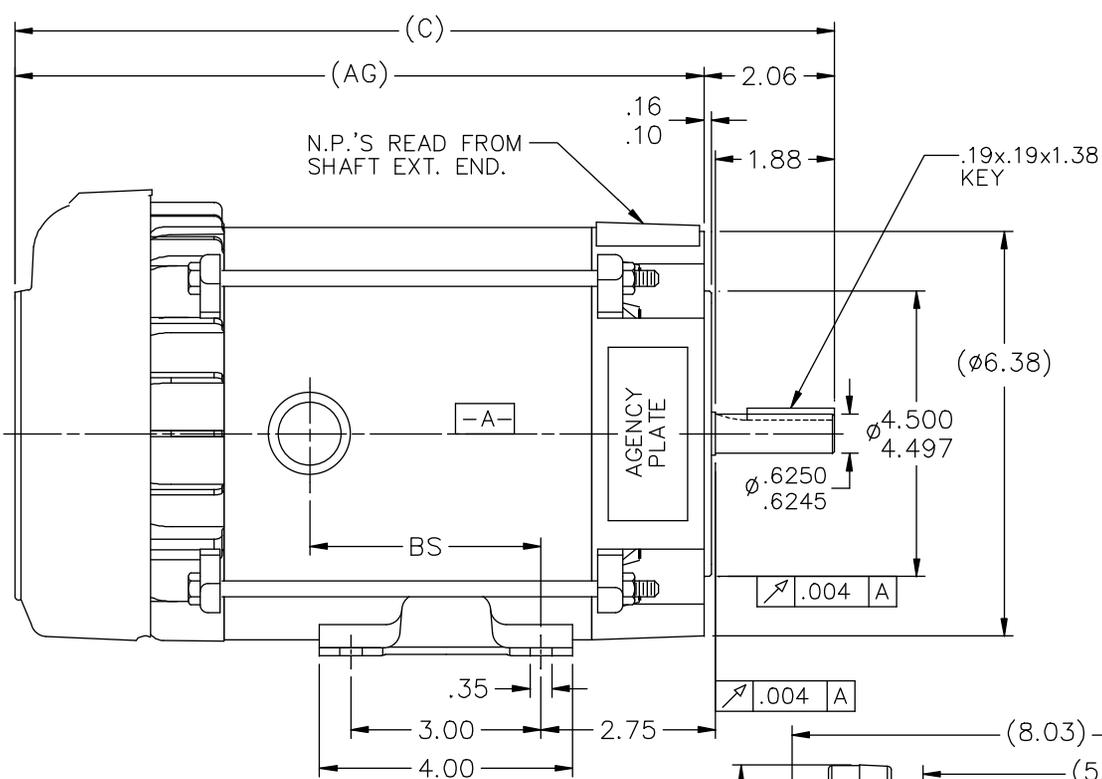


Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	60 Hz	Voltage	115/208-230 V
Current	8.8/4.2-4.4 A	Speed	1725 rpm
Service Factor	1	Phase	1
Efficiency	66 %	Power Factor	58
Duty	Continuous	Insulation Class	B
Design Code	N	KVA Code	L
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

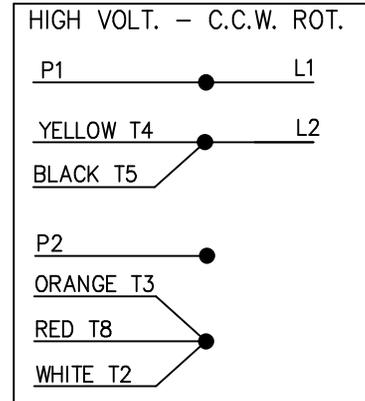
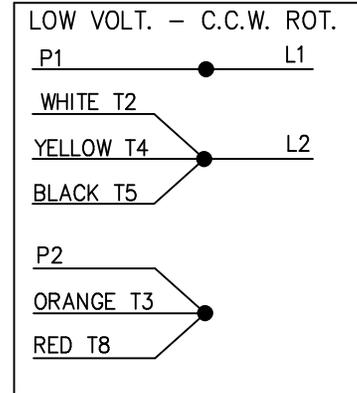
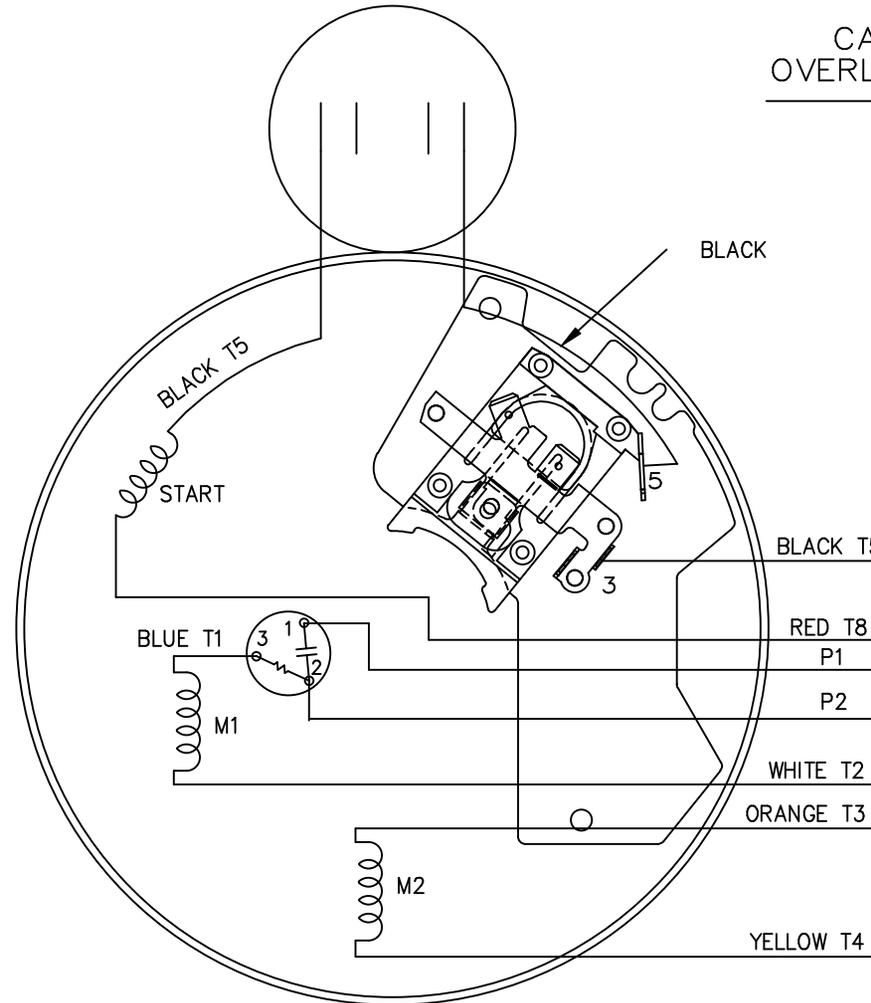
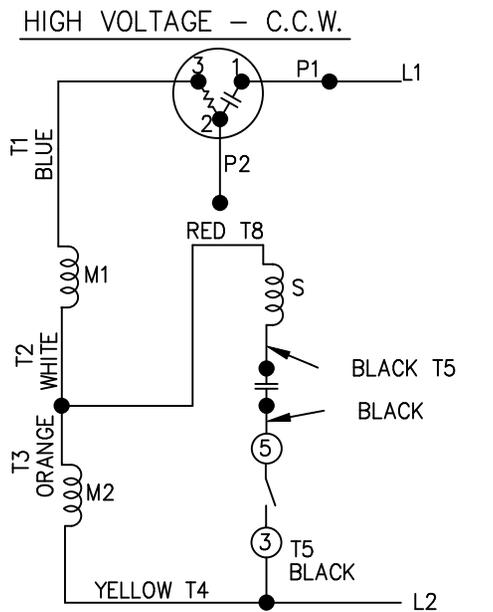
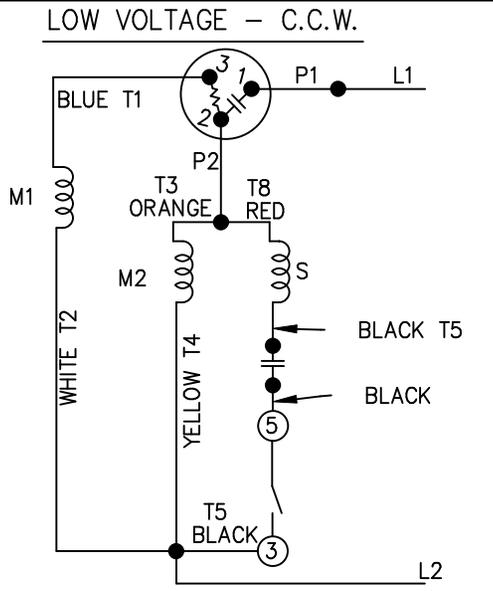
Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	13.94 in
Frame Length	6.81 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-104191LE-681	Connection Drawing	A-102005-84-LE



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	
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				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		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN VL 08-08-2007
				DEC.	INCHES		CHK
				.X	±.1		APPD
				.XX	±.02		SCALE 5=8
				.XXX	±.005		REF
1	REV'D CONNECTION TO MATCH ROTATION ISAAC 07-2021	JJB 09/05/2007	ML	.XXXX	±.0005	MAT'L.	FMF 56M1072
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV
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				DIST WP			DRAWING NO. 102005-84-LE
							PAGE OF 1
							REV. 1



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A 102005-84-LE

CATALOG #: 116609.00

OUTLINE: B-104191LE-681

MOUNTING: F1 ONLY

WINDING #: ZC404 R1 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1725	56C	EPFC	L	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	8.8/4.2-4.4	ACROSS THE LINE	CONTINUOUS	B3	1.0	40

FULL LOAD EFF:	66	3/4 LOAD EFF:	62.5	1/2 LOAD EFF:	54.3	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	58	3/4 LOAD PF:	49.5	1/2 LOAD PF:	40.5	62		CAP START IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24.1 OZ-FT	42.6 / 21.3	83.8 OZ-FT 348 %	72.3 OZ-FT 300 %	55

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	30 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

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

