

PRODUCT INFORMATION PACKET



Model No: 119440.00

Catalog No: 119440.00

Explosion Proof Motor, 1.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 56C Frame, EPFC



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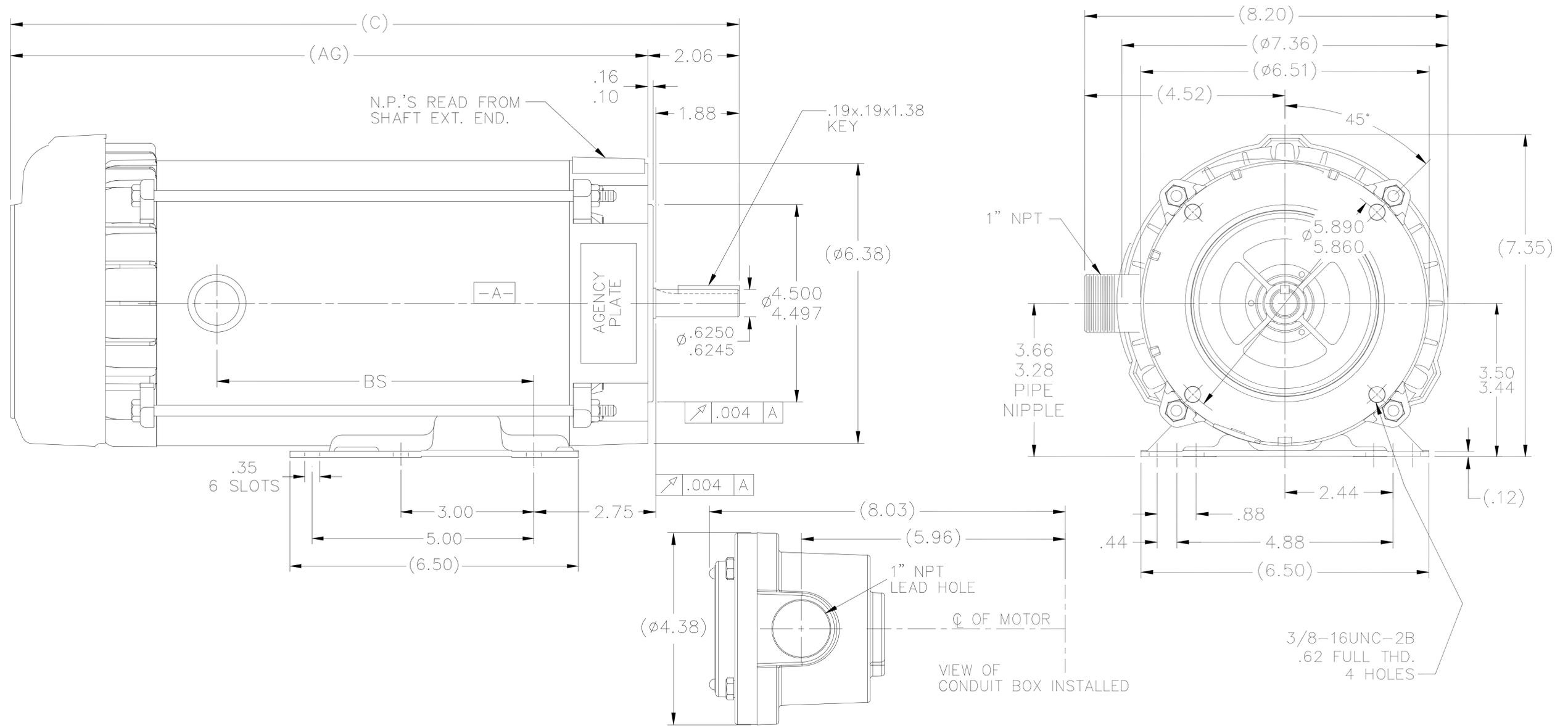
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.6/2.3 A	Speed	1725 rpm
Service Factor	1	Phase	3
Efficiency	86.5 %	Power Factor	71
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	P
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	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	7.9 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	15.94 in
Frame Length	8.81 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	108331-881	Connection Drawing	EE7335-LE

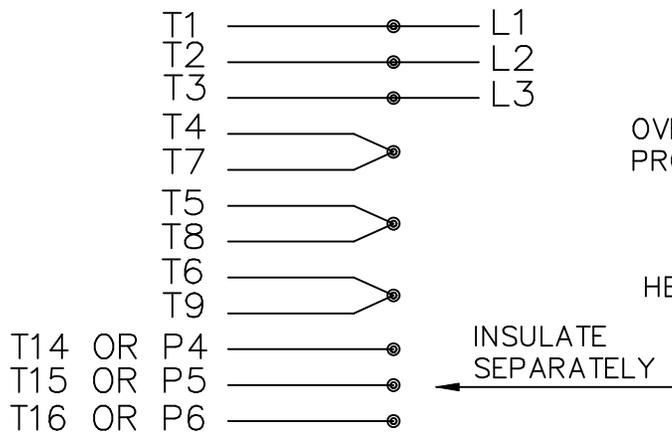
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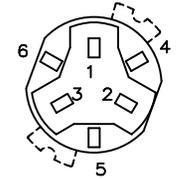
DASH	(C)	(AG)	BS
881	15.94	13.88	6.65
931	16.44	14.38	7.15
981	16.94	14.88	7.65

TOLERANCES UNLESS SPECIFIED		REGAL™ Regal Beloit America, Inc.		DRAWN SM 9/8/2015	
DEC.	INCHES			CHK	SM 9/8/2015
.X	±.1			APPD	SM 9/8/2015
.XX	±.03	TITLE OUTLINE - 'C' FACE 56H FR. - EXP. PR.		SCALE	1=2
.XXX	±.005			REF	104191
A	NEW DRAWING	SM 9/8/2015	SM .XXXX ±.0005	MAT'L.	FMF 056T34G14002
NO.	REVISION	BY & DATE	CHK ANG ±1/2'	FINISH	PREV
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				DIST WP	SIZE B DRAWING NO. 108331 PAGE OF REV. A

HIGH VOLTAGE CONNECTIONS

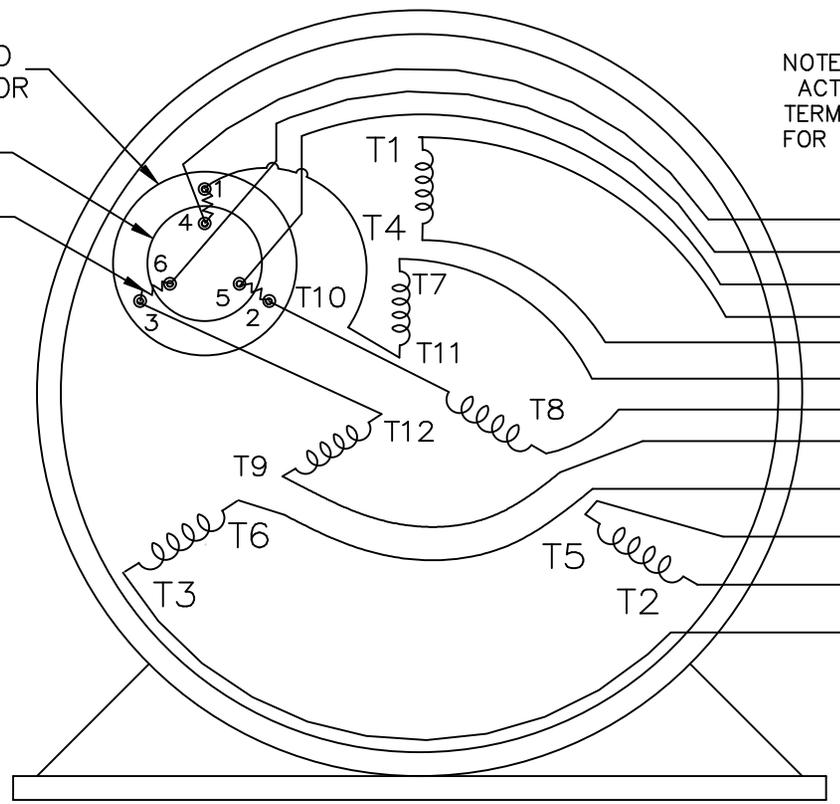


THREE PHASE - DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR



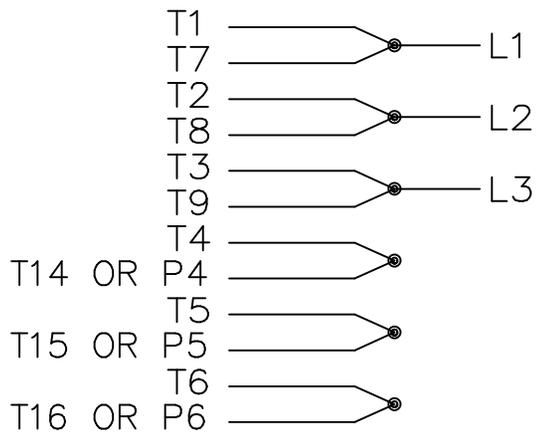
NOTE:
ACTUAL PROTECTORS
TERMINAL LOCATIONS
FOR LEAD CONNECTIONS

OVERLOAD PROTECTOR
DISC
HEATER



T14 OR P4
T16 OR P6
T15 OR P5

LOW VOLTAGE CONNECTIONS



VIEW OF TERMINAL END

T2K
T4D
T6AN

				TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN NJS 04-20-2005			
				DEC.	INCHES		CHK ML 04-20-2005			
				.X	± -		APPD MJS 04-20-2005			
				.XX	± -		SCALE			
				.XXX	± -		REF			
				.XXXX	± -	MAT'L.				
NO.	REVISION	BY & DATE	CHK	ANG	± -	FINISH	PREV			
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				DIST	WP					

P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7335-LE
 OUTLINE: B-108331-881
 WINDING: ZT4256

CAT #: 119440.00

R11 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	1800	1755	56C	EPFC	TFN	P	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	4.6/2.3	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	86.5	3/4 LD EFF	85.5	1/2 LD EFF	82.5	GTD EFF	84.0	ELECT. TYPE
F.L. PF	71.0	3/4 LD PF	62.5	1/2 LD PF	49.0	SQ CAGE IND RUN		

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
4.5 LB-FT	24.0	21.2 LB-FT 471%	26.0 LB-FT 578%	35

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA	0.14 LB-FT²	10 LB-FT²	20 SEC.	2	50 LB.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	DF CL I GR C&D CL II GF	NO	NONE	JE - LEESON (ENAM)

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

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	AUTOMATIC	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
4.838	3.78	7.125	7.163	189.605	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	NONE PPR
	NONE	NONE PPR

DATE: 1/31/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	NONE
	VOLTAGE: NONE	HZ:
UL: NONE		

Data Sheet

Date: 1/31/2018

119440.00



Data @ 460 V

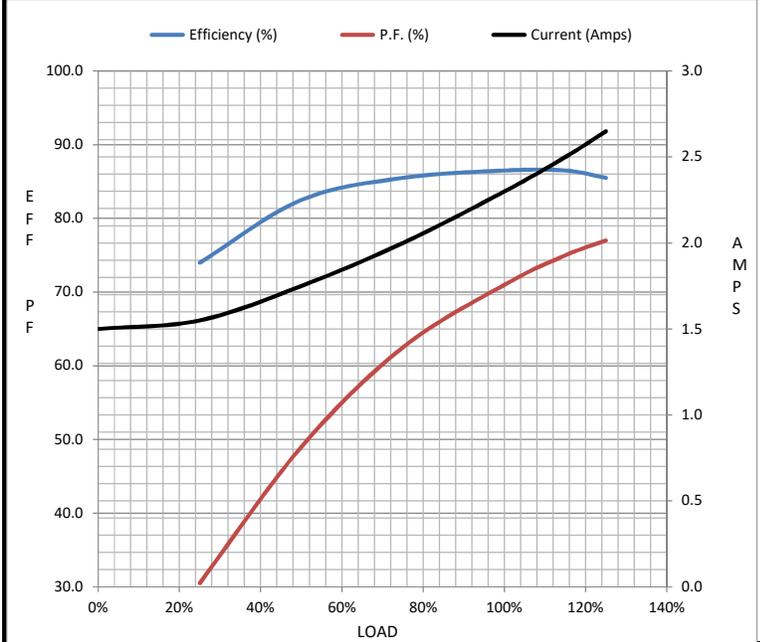
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.50	1.55	1.75	2.00	2.30	2.50	2.65	24.0
Torque (ft-lb)	0.00	1.10	2.20	3.5	4.5	5.2	5.7	21.2
RPM	1800	1790	1780	1765	1755	1750	1745	0
Efficiency (%)		74.0	82.5	85.5	86.5	86.5	85.5	
P.F. (%)	7.5	30.5	49.0	62.5	71.0	75.0	77.0	69.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	130	1190	1755	1800
Current (Amps)	24.0	23.3	16.0	2.30	1.50
Torque (ft-lb)	21.2	20.2	26.0	4.5	0.00

Information Block				
HP	1.5			
Sync. RPM	1800			
Frame	145			
Enclosure	EPFC			
Construction	TFN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	P			
Service Factor	1.15			
Temp Rise @ FL	35 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.14 Lb-Ft ²			
Ref Wdg	ZT4256 R11			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-108331-881			
Conn. Diag	EE7335-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.8380	3.7800	7.1250	7.1630	189.6050



Speed - Torque Curve

