

PRODUCT INFORMATION PACKET



Model No: 119429.00

Catalog No: 119429.00

Explosion Proof Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 3600 & 3000 RPM,
56J Frame, EPFC



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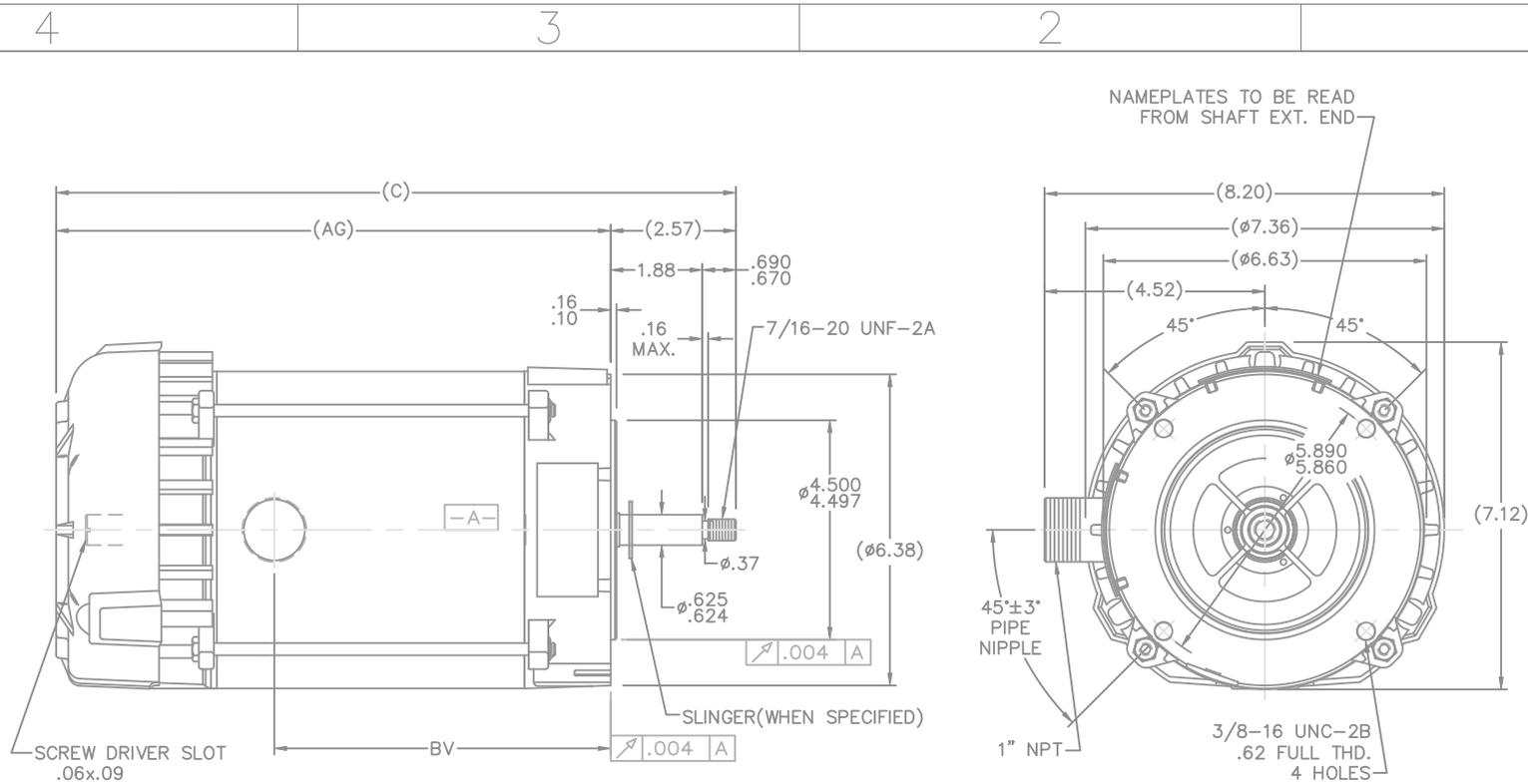


Nameplate Specifications

Phase	3	Output HP	1.50 & 1 Hp
Output KW	1.1 & 0.75 kW	Voltage	208-230/460 & 190/380 V
Speed	3450 & 2850 rpm	Service Factor	1.0 & 1.0
Frame	56J	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Automatic	Efficiency	84 & 85.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	4.2-4/2 & 3.4/1.7 A	Power Factor	83.5
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	M
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	9.27 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	J	Overall Length	15.45 in
Frame Length	7.81 in	Shaft Diameter	0.625 in
Shaft Extension	2.44 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	EE7335	Outline Drawing	B-104213LE-781

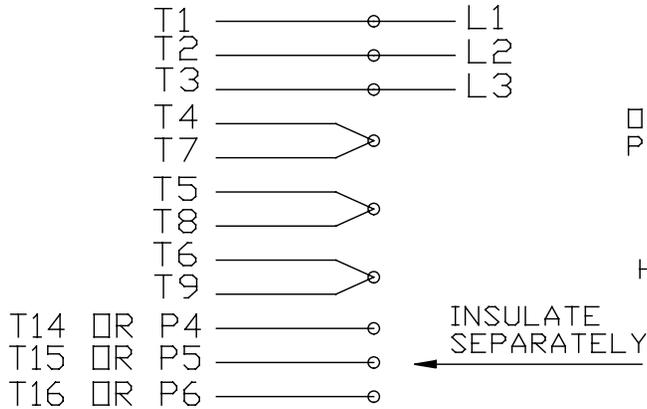


DASH	C	AG	BV
631	13.95	11.38	6.715
681	14.45	11.88	7.215
731	14.95	12.38	7.715
781	15.45	12.88	8.215
831	15.95	13.38	8.715
881	16.45	13.88	9.215
931	16.95	14.38	9.715
981	17.45	14.88	10.215

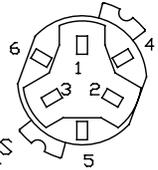
DRAWING REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED	DRAWN BY:	REGAL™ Regal Beloit America, Inc.
D	D. VALENCIANO	05-19-2021	DEC. INCH mm ANGLE	RJW	
ECO	APPROVED BY	DATE	.X ±0.1 ±2.5 ±0.5°	DATE:	DESCRIPTION
ECR-0207998	D. VALENCIANO	05-19-2021	.XX ±0.02 ±0.51	06-22-2007	
ECO DESCRIPTION			.XXX ±0.005 ±0.127	APPROVED BY:	56FR. - C'FACE-EXP. PR.
UPDATED			.XXX ±0.0005 ±0.0127	ML	MATERIAL
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>			<small>REMOVE BURRS & BREAK SHARP EDGES .003/.015 [0.076/.381]X 45° CORNER FILLETS R.02 [51] MACHINED SURFACES 125/√Rm 3.2/√Rm</small>	DATE:	PROCESS/FINISH
			mm SHOWN IN [BRACKETS]	06-22-2007	
				REFERENCE	SIZE DWG NO
				THIRD ANGLE PROJECTION	B 104213LE
					SHEET 1

EE7335

HIGH VOLTAGE CONNECTIONS

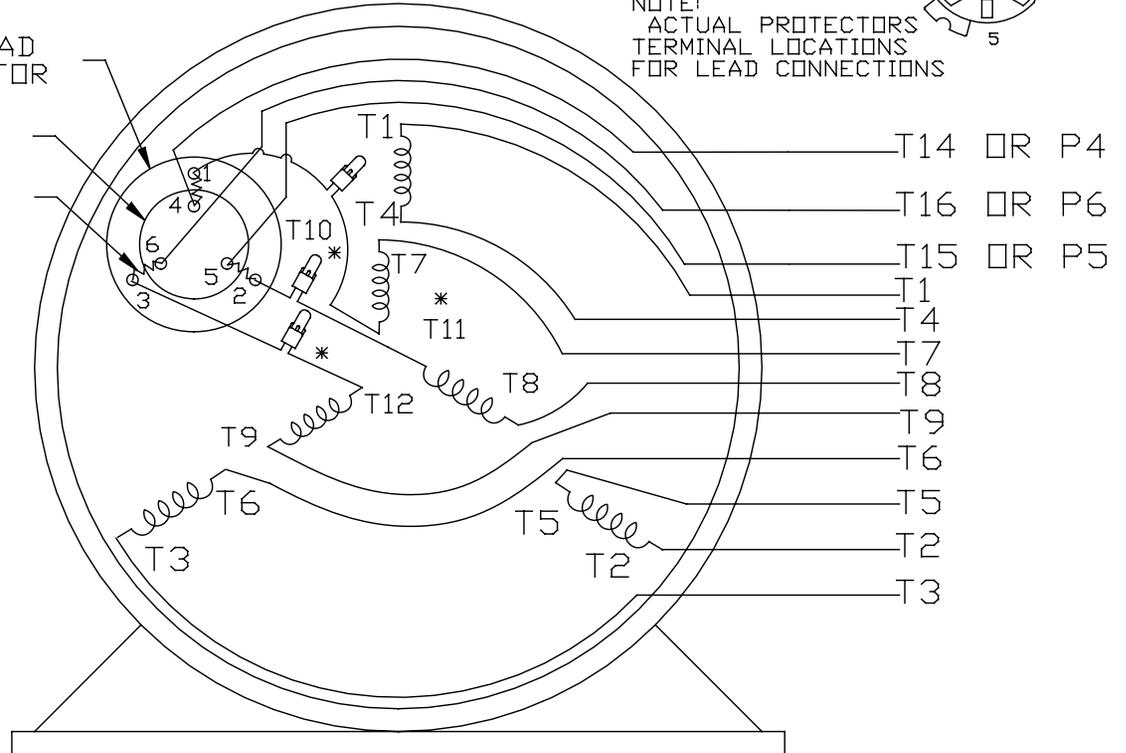


THREE PHASE - DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR

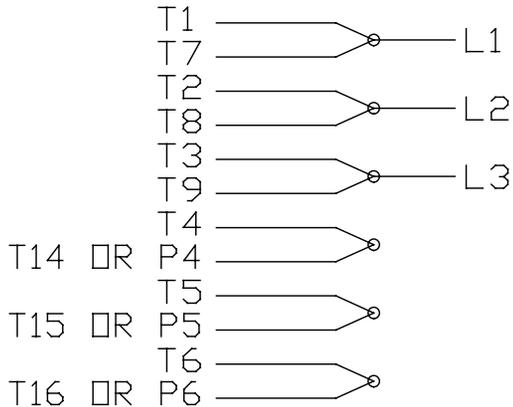


NOTE:
ACTUAL PROTECTORS
TERMINAL LOCATIONS
FOR LEAD CONNECTIONS

OVERLOAD
PROTECTOR
DISC
HEATER



LOW VOLTAGE CONNECTIONS



VIEW OF TERMINAL END

T2K
T4D
T6AN

* USE PRESSURE CONNECTORS FOR MT2 PLANT ONLY

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	SCALE	REV.
				DEC.	INCHES				
17	CHANGED LOGO FROM MARATHON TO REGAL	KIR 02/16/16	AB	DEC.	INCHES	REGAL™ Regal Beloit America, Inc.	KL	08-09-1993	
16	PRESSURE CONNECTORS QUANTITY WAS 6	PVR 10/29/13	GR	.X	±.1		CHK	ML	08/10/1993
15	PRESSURE CONNECTORS ADDED	GR 03/04/13	SR	.XX	±.01	TITLE 3Ø-DUAL VOLT WITH OVERLOAD PROTECTO	APPD	GK	08/10/1993
14	ADDED ACTUAL PROECTOR VIEW CN 17481	KL 05/18/94		.XXX	±.005		SCALE		1=1
13	REDRAWN IN AUTO CAD	KL 08/11/93		.XXXX	±.0005	MAT'L.	REF		
				ANG	±1/2*		FMF		
				RFP		CAD FILE	EE7335	SIZE	DRAWING NO.
				DIST				A	EE7335
									17

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 PH. 715-675-3311



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7335
 OUTLINE: B-104213LE-781
 WINDING: ZT2141

CAT #: 119429.00

R1 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	3600	3515	56J	TEFC	TFR	M	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380	4.2-4/2&3.4/1.7	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	84.0	3/4 LD EFF	84.8	1/2 LD EFF	82.3	GTD EFF	82.5	ELECT. TYPE
F.L. PF	83.5	3/4 LD PF	77.8	1/2 LD PF	67.2	SQ CAGE IND RUN		

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
2.20 LB-FT	19.4	7.3 LB-FT 332%	9.6 LB-FT 436%	38

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
69 dBA	78 dBA	0.05 LB-FT²	3 LB-FT²	20 SEC.	2	55 LB.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	JET PUMP	NONE	NONE	416 STAINLESS (C-503)	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
1.419	0.946	2.318	2.129	79.937	0.150	ODE

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

DATE: 1/17/2018	BRAKE: NONE	
	NONE	
	NONE	
	NONE	
FT-LB: NA		
VOLTAGE: NONE		
HZ:		
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 1/17/2018

119429.00



Data @ 460 V

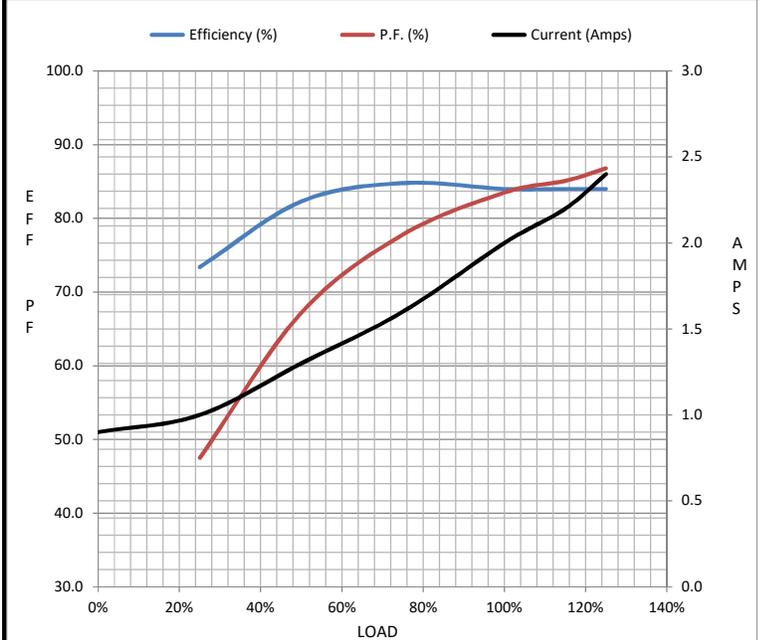
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.90	1.00	1.30	1.60	2.00	2.20	2.40	19.4
Torque (ft-lb)	0.00	0.60	1.10	1.70	2.20	2.60	2.80	7.3
RPM	3600	3575	3555	3535	3515	3,500	3485	0
Efficiency (%)		73.4	82.3	84.8	84.0	84.0	84.0	
P.F. (%)	17.0	47.5	67.2	77.8	83.5	85.1	86.8	58.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	650	2815	3515	3600
Current (Amps)	19.4	18.6	12.1	2.00	0.90
Torque (ft-lb)	7.3	6.1	9.6	2.20	0.00

Information Block				
HP	1.5			
Sync. RPM	3600			
Frame	143			
Enclosure	TEFC			
Construction	TFR			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	M			
Service Factor	1.15			
Temp Rise @ FL	38 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.05 Lb-Ft ²			
Ref Wdg	ZT2141 R1			
Sound Pressure @ 1M	69 dBA			
VFD Rating	NONE			
Outline Dwg	B-104213LE-781			
Conn. Diag	EE7335			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.4190	0.9460	2.3180	2.1290	79.9370



Speed - Torque Curve

