

PRODUCT INFORMATION PACKET



Model No: 114628.00

Catalog No: 114628.00

Explosion Proof Motor, 0.50 & 0.50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM,
56C Frame, EPNV



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



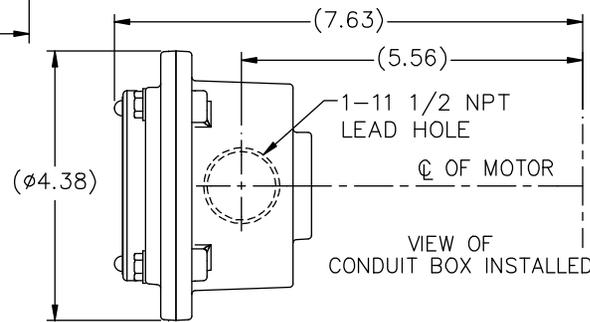
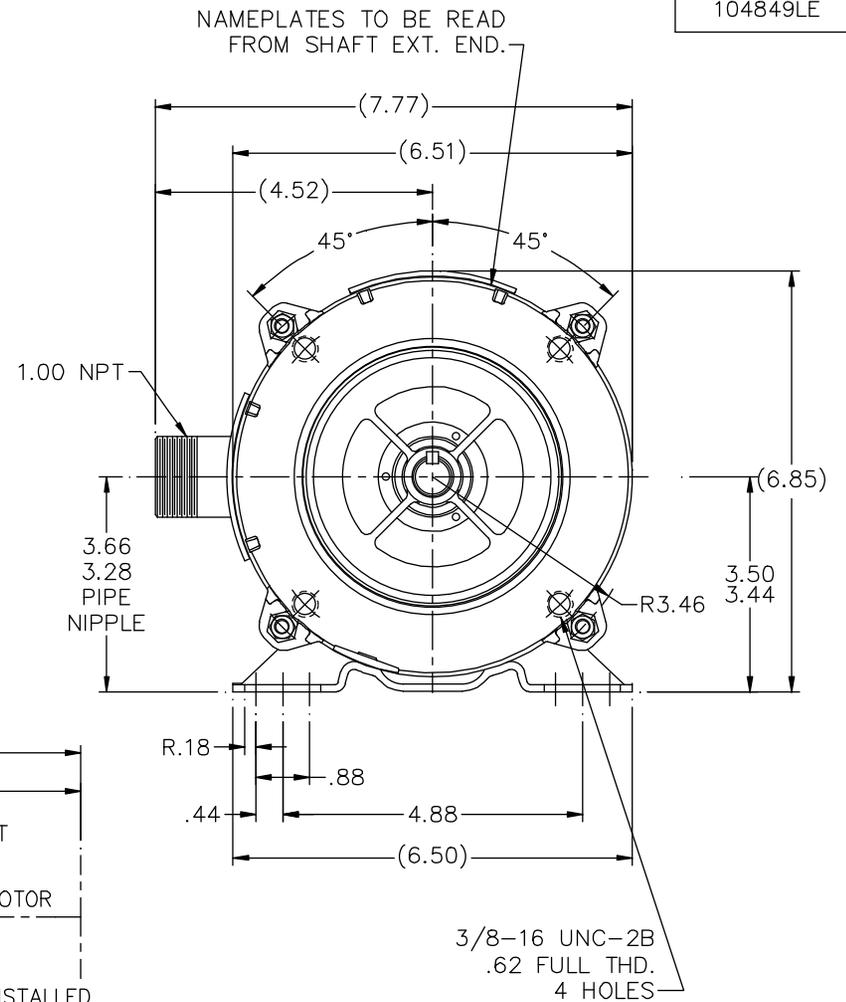
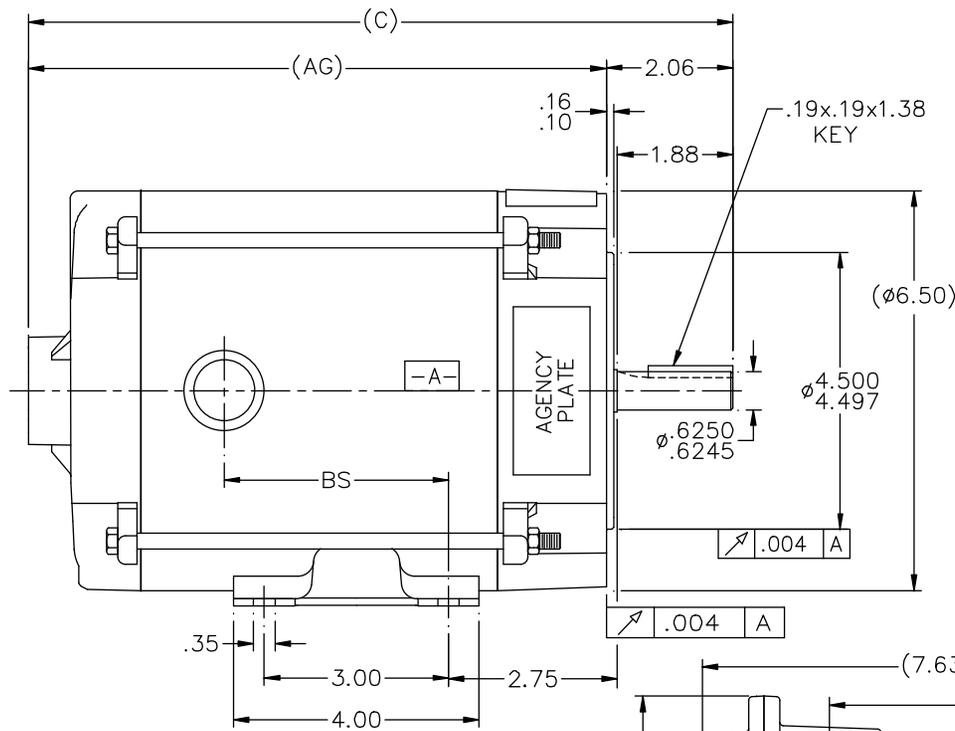


Nameplate Specifications

Phase	3	Output HP	0.50 & 0.50 Hp
Output KW	0.37 & 0.37 kW	Voltage	208-230/460 & 190/380 V
Speed	1725 & 1425 rpm	Service Factor	1.0 & 1.0
Frame	56C	Enclosure	Explosion Proof Non Ventilated
Thermal Protection	Automatic	Efficiency	80 & 78.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	1.8-1.6/.8 & 1.8/.91 A	Power Factor	72
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	L
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

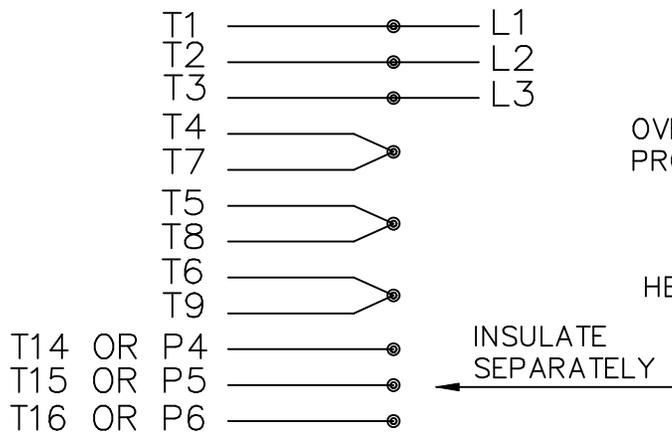
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	36.24 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	12.47 in
Frame Length	6.81 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7335-LE	Outline Drawing	B-104849LE-681



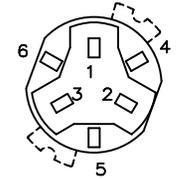
DASH	(C)	(AG)	BS
631	11.97	9.91	4.15
681	12.47	10.41	4.65
731	12.97	10.91	5.15
781	13.47	11.41	5.65
831	13.97	11.91	6.15
881	14.47	12.41	6.65
931	14.97	12.91	7.15
981	15.47	13.41	7.65

				TOLERANCES UNLESS SPECIFIED		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN RJW 06-25-2007	
				DEC.	INCHES			CHK	ML 06-25-2007
				.X	±.1	TITLE OUTLINE - 'C' FACE 56 FR. - EXP. PR.		APPD	GK 06-25-2007
				.XX	±.03			SCALE	1=2
				.XXX	±.005			REF	
1	COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571	UD	10/16/13	ST	.XXXX	±.0005	MAT'L.	FMF	
NO.	REVISION	BY & DATE		CHK	ANG	±1/2'	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	06-25-2007	CAD FILE	104849LE	SIZE	DRAWING NO. PAGE OF REV.
				DIST	WP			B	104849LE 1

HIGH VOLTAGE CONNECTIONS

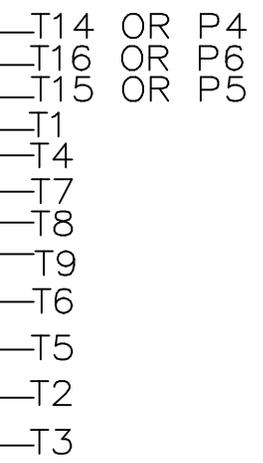
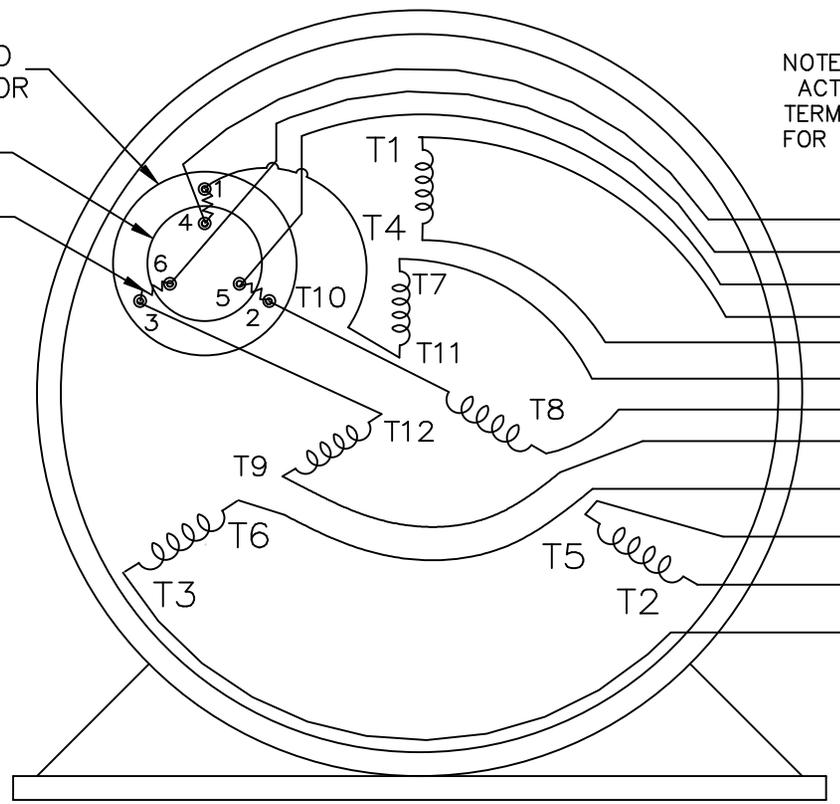


THREE PHASE – DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR

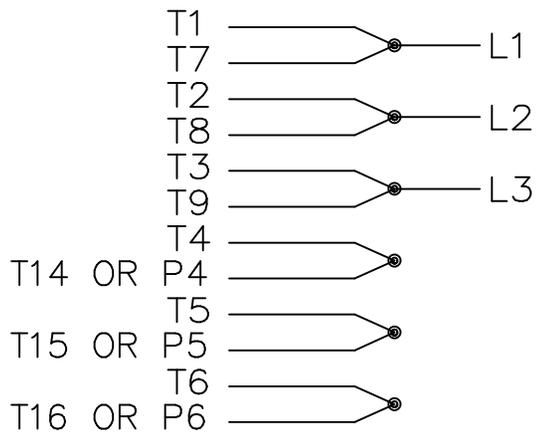


NOTE:
 ACTUAL PROTECTORS
 TERMINAL LOCATIONS
 FOR LEAD CONNECTIONS

OVERLOAD PROTECTOR
 DISC
 HEATER



LOW VOLTAGE CONNECTIONS



VIEW OF TERMINAL END

T2K
 T4D
 T6AN

				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			
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	04-20-2005	CAD FILE EE7335_LE	SIZE A	DRAWING NO. EE7335-LE	PAGE OF	REV.
				DIST	WP					

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



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7335-LE
 OUTLINE: B-104849LE-681
 WINDING: ZT471

CAT #: 114628.00

R16 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
0.5	0.37	1800	1725	56C	EPNV	TTR	L	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380	1.8-1.6/.8&1.8/.91	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	82.8	3/4 LD EFF	78.6	1/2 LD EFF	75.6	GTD EFF	77.0	ELECT. TYPE
F.L. PF	70.6	3/4 LD PF	62.8	1/2 LD PF	52.3	SQ CAGE IND RUN		

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
1.52 LB-FT	5.6	4.6 LB-FT 303%	5.8 LB-FT 382%	50

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
60 dBA	69 dBA	0.06 LB-FT²	0 LB-FT²	15 SEC.	0	25 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
20.377	15.041	24.237	17.936	518.219	0.150	ODE

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

DATE: 1/23/2018	BRAKE: NONE	
	NONE	
	NONE	
	NONE	
FT-LB: NA		
VOLTAGE: NONE		
HZ:		
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 1/23/2018

114628.00



Data @ 460 V

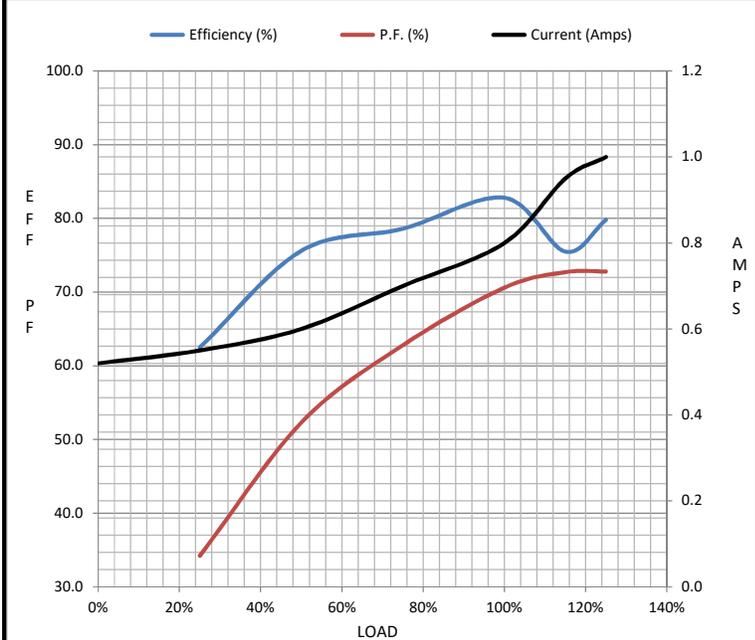
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.52	0.55	0.60	0.70	0.80	0.95	1.00	5.6
Torque (ft-lb)	0.00	0.37	0.75	1.10	1.52	1.70	1.90	4.6
RPM	1800	1785	1775	1760	1725	1.720	1715	0
Efficiency (%)		62.5	75.6	78.6	82.8	75.5	79.8	
P.F. (%)	12.1	34.2	52.3	62.8	70.6	72.7	72.8	69.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	800	1330	1725	1800
Current (Amps)	5.6	5.0	3.5	0.80	0.52
Torque (ft-lb)	4.6	4.2	5.8	1.52	0.00

Information Block				
HP	0.5			
Sync. RPM	1800			
Frame	56			
Enclosure	EPNV			
Construction	TTR			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.06 Lb-Ft ²			
Ref Wdg	ZT471 R16			
Sound Pressure @ 1M	60 dBA			
VFD Rating	NONE			
Outline Dwg	B-104849LE-681			
Conn. Diag	A-EE7335-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
20.3770	15.0410	24.2370	17.9360	518.2190



Speed - Torque Curve

