

PRODUCT INFORMATION PACKET



Model No: A6T17EK8C

Catalog No: 114628.00

1/2HP..1725/1425RPM.56.EPNV./V.3PH.60/50HZ.CONT.AUTOMATIC.40C.1.0/1.0SF.RIGID.EXPLOSION-
PROOF.A6T17EK8C

Explosion Proof



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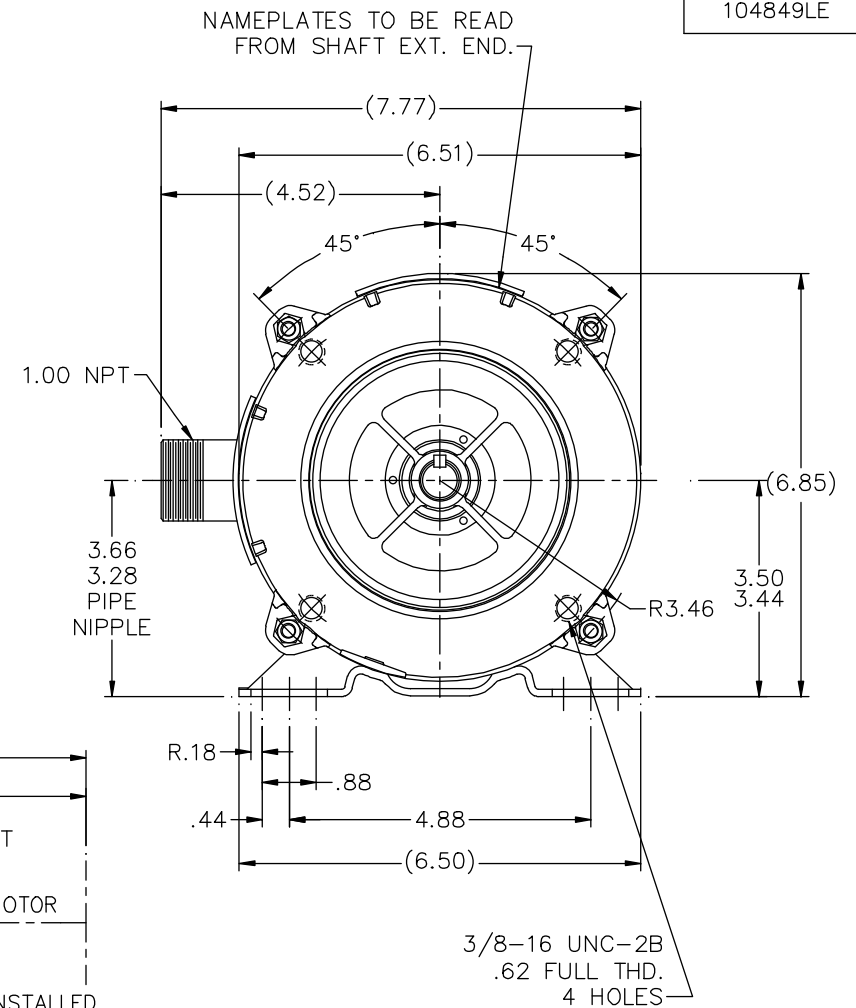
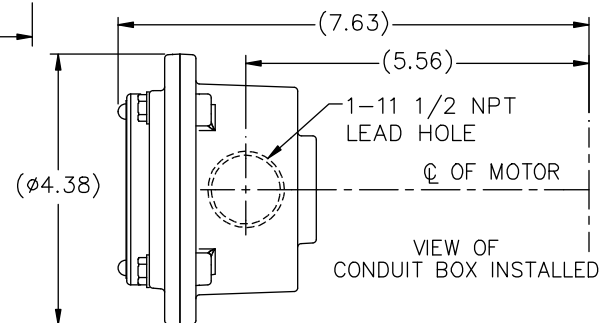
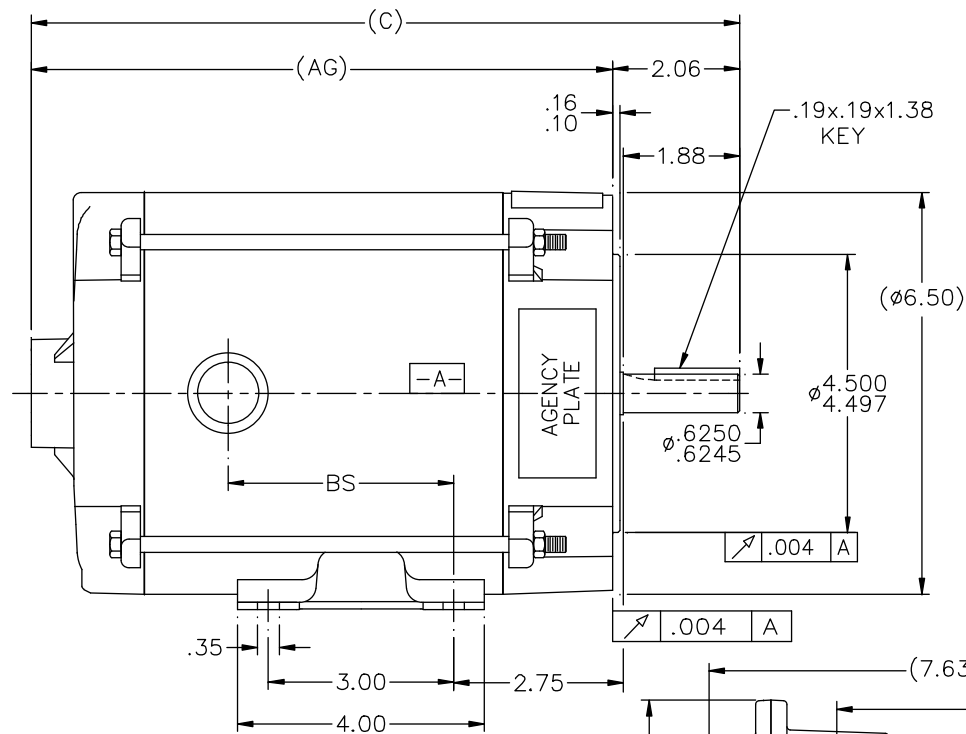


Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	1.8-1.6/0.80 A	Speed	1725 rpm
Service Factor	1	Phase	3
Efficiency	80 %	Duty	Continuous
Insulation Class	B	Design Code	B
KVA Code	L	Frame	56C
Enclosure	Explosion Proof Non Ventilated	Overload Protector	Automatic
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N
IP Code	54		

Technical Specifications

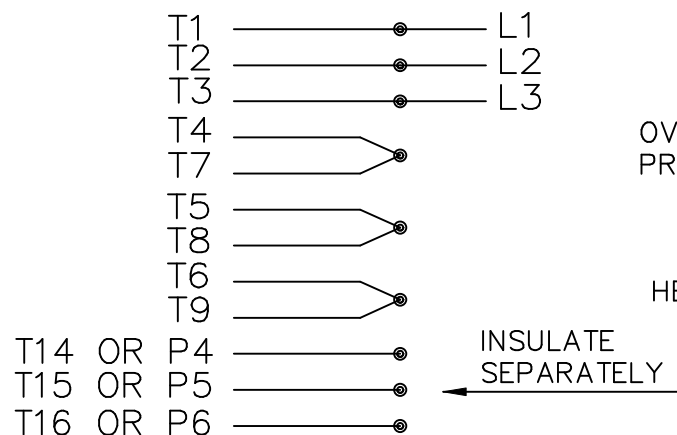
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	NEMA 56
Overall Length	12.47 in	Frame Length	6.81 in
Shaft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



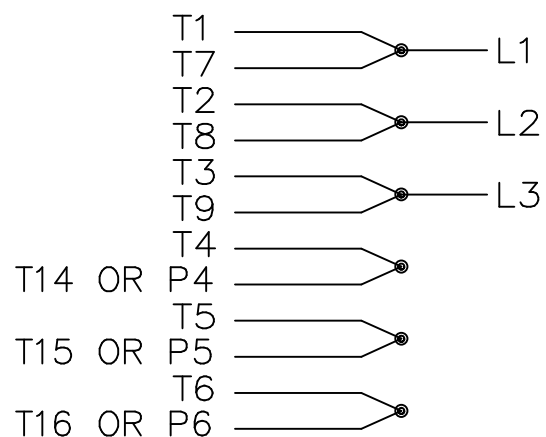
DASH	(C)	(AG)	BS		
631	11.97	9.91	4.15		
681	12.47	10.41	4.65		
731	12.97	10.91	5.15		
781	13.47	11.41	5.65		
831	13.97	11.91	6.15		
881	14.47	12.41	6.65		
931	14.97	12.91	7.15		
981	15.47	13.41	7.65		

				TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN RJW 06-25-2007			
				DEC.	INCHES			CHK	ML	06-25-2007	
				.X	±.1			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				
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'	FINISH		PREV			
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				DIST	WP		B	104849LE	1		

HIGH VOLTAGE CONNECTIONS

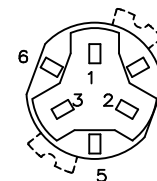
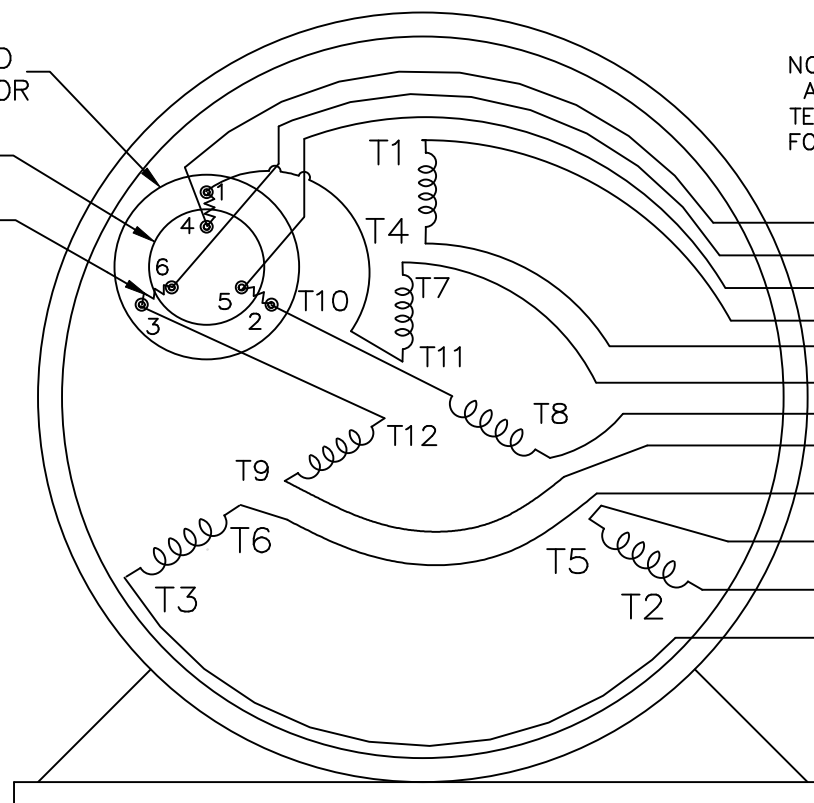


LOW VOLTAGE CONNECTIONS

THREE PHASE – DUAL VOLTAGE MOTOR
WITH OVERLOAD PROTECTOROVERLOAD
PROTECTOR

DISC

HEATER



NOTE:
ACTUAL PROTECTORS
TERMINAL LOCATIONS
FOR LEAD CONNECTIONS

T14 OR P4
 T16 OR P6
 T15 OR P5

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	± -	TITLE CONNECTION DIAGRAM 3Ø- DUAL VOLTAGE W/OVERLOAD PROTECTOR	APPD MJS 04-20-2005			
				.XX	± -		SCALE			
				.XXX	± -		REF			
				.XXXX	± -		FMF			
NO.	REVISION	BY & DATE	CHK	ANG	± -	FINISH	PREV			
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				DIST	WP		A	EE7335-LE		REV.



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EET7335-LE
OUTLINE: B-104849LE-681
WINDING: ZT471

R16 3

CAT #: 114628.00

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					
F.L. PF		70.6	3/4 LD PF	62.8	1/2 LD PF		52.3	77.0					
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	362%	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	DRIIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	DE CL IGR C&D CL II GF	NO	NONE	JE - LEESON (ENAM
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							
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 PPR			
	NONE							
	NONE							

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



Data@ 460 V

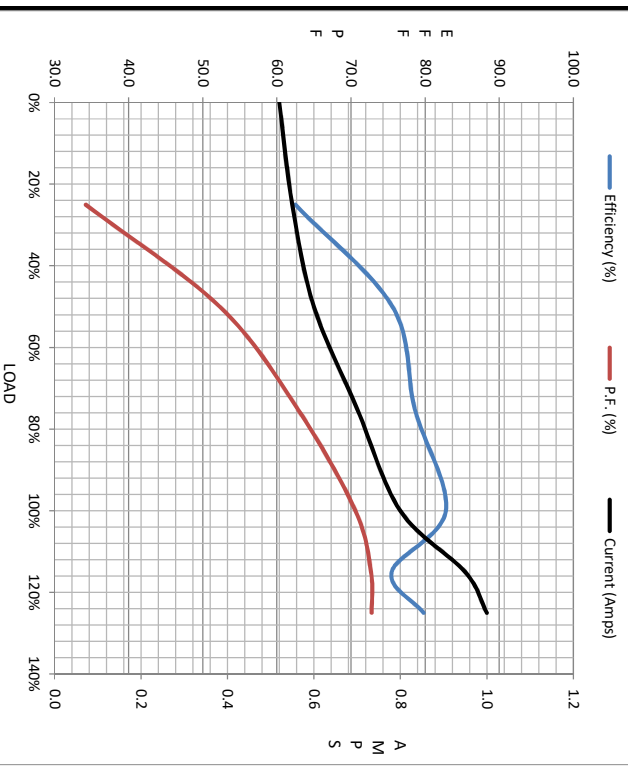
Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (amps)	0.52	0.55	0.60	0.70	0.80	0.95	1.00	5.6	
Torque (ft-lb)	0.00	0.37	0.75	1.10	1.52	1.70	1.90	4.6	
RPM	1800	1785	1775	1760	1725	1,720	1715	0	
Efficiency (%)		62.5	75.6	78.6	82.8	75.5	79.8		
P.F. (%)	12.1	34.2	52.3	62.8	70.6	72.7	72.8	69.5	

Motor Speed Data

Information Block					
	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
					HP
					Sync. RPM
					0.5
					1800

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 wk²	0.06			Lb-Ft²	
Ref Wdg	ZT471 R16				
Sound Pressure @ 1M	60			dBA	
VFD Rating	NONE				
Outline Dwg	B-104849LE-681				
Conn. Diag	A-EE7355-1E				
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

