PRODUCT INFORMATION PACKET

Model No: LM34117
Catalog No: LM34117
5 HP Special Voltage Motor, 3 phase, 900 RPM, 575 V, 254T Frame, TEFC
Special Voltage Motors

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Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	575 V
Current	6.0 A	Speed	875 rpm
Service Factor	1.15	Phase	3
Efficiency	88.5 %	Power Factor	71
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	254T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	8	Rotation	Reversible
Resistance Main	1.16 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	23.51 in
Frame Length	12.00 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7300	Outline Drawing	SS321100-1200

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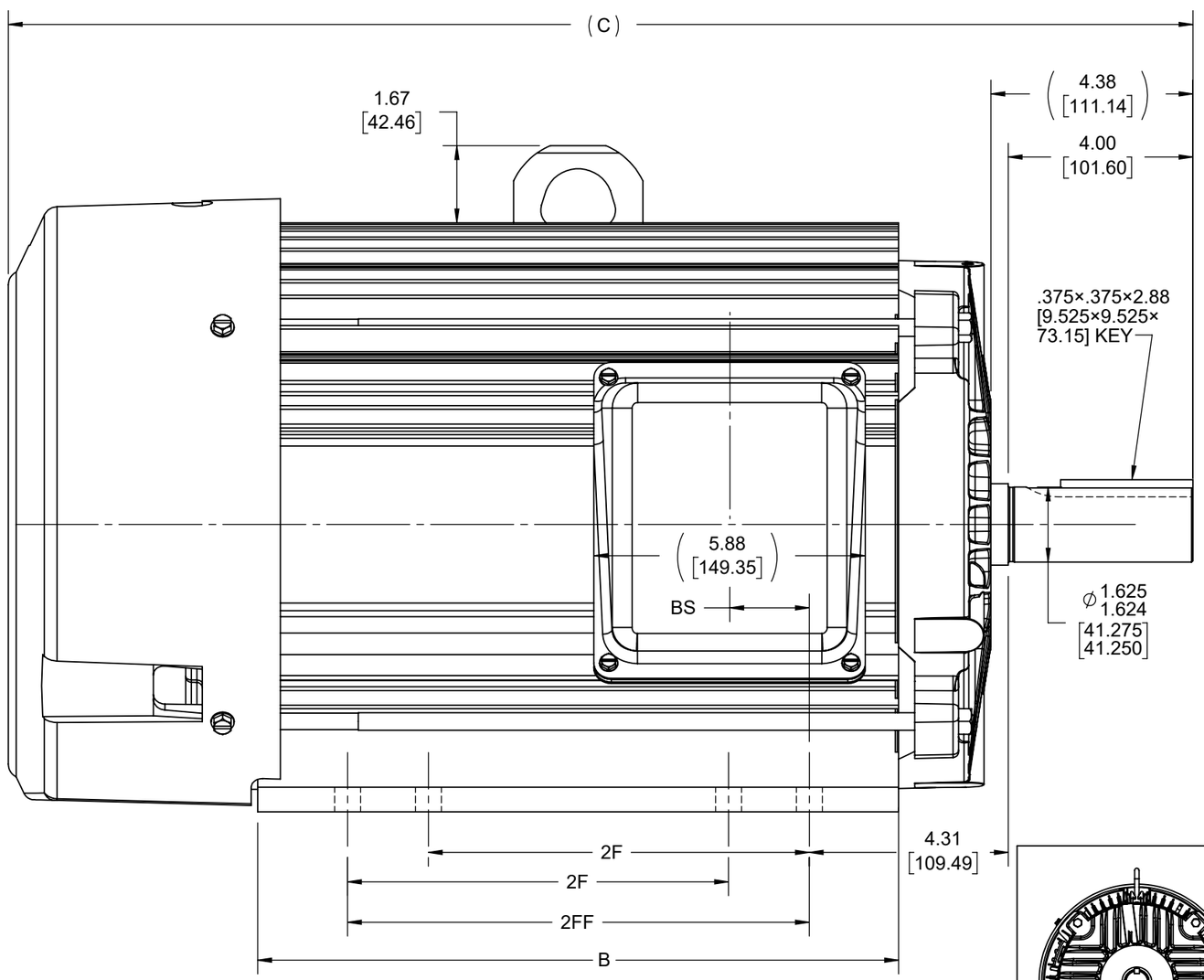

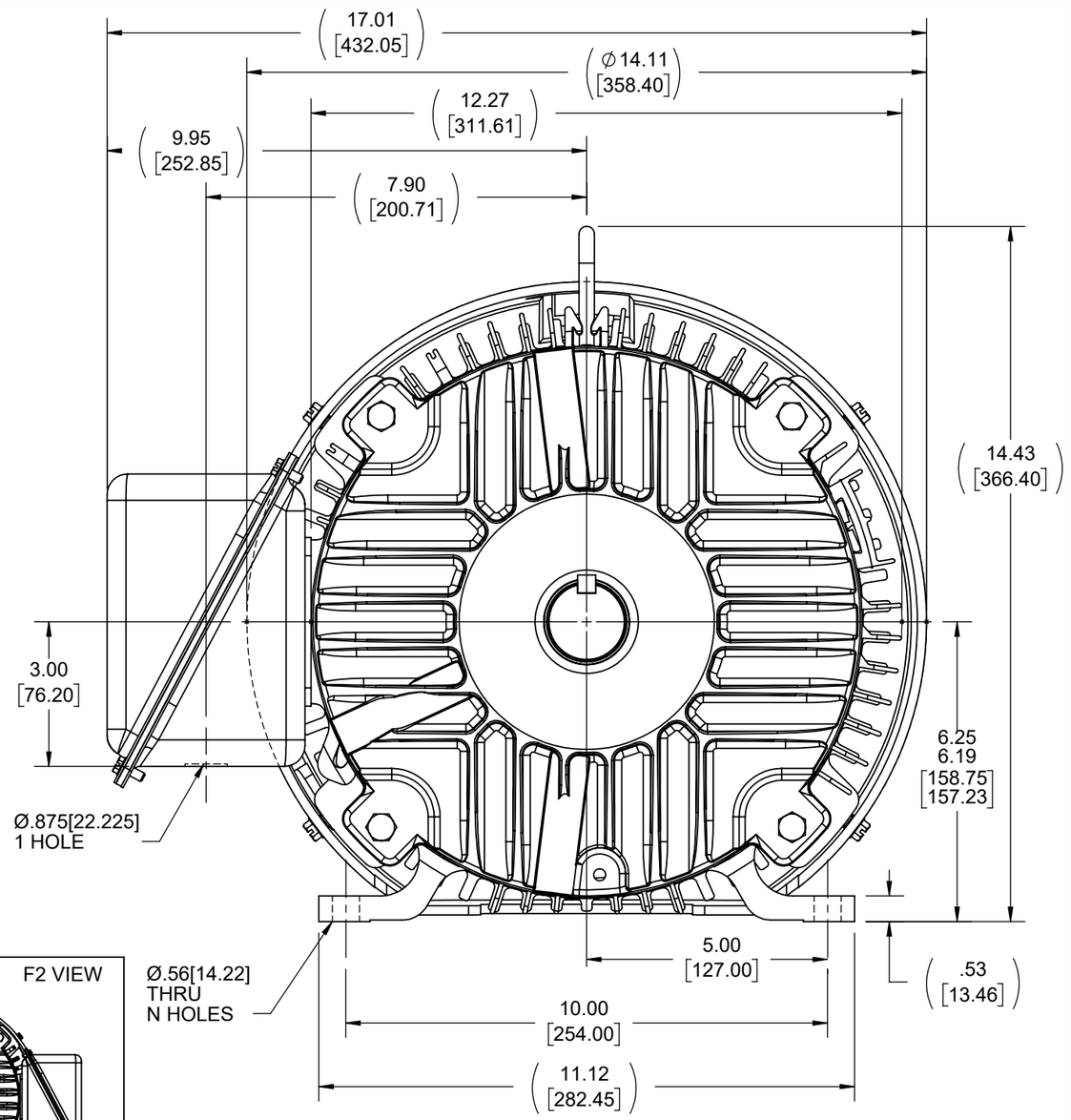

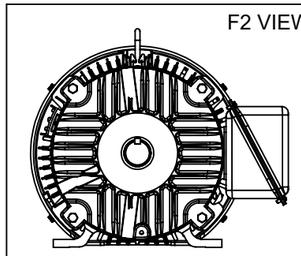

NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	B	2F	2FF	BS	N
1200	254T	23.78 [603.90]	12.13 [308.10]	8.25 [209.55]	------	1.73 [43.94]	4
1375	254/6T	25.66 [651.65]	13.88 [352.55]	8.25 [209.55]	10.00 [254.00]	1.73 [43.94]	8

DRAWING REVISION: D	REVISION BY: SP	DATE: 05-26-2021
ECO: CR-0001205	APPROVED BY: AS	DATE: 05-26-2021

ECO DESCRIPTION: REPLACED FAN GUARD 3C223-E3 TO 205016B

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.03	[±0.76]	
XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: RJW	
DATE: 02-01-2005	
APPROVED BY: BW	
DATE: 02-01-2005	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS321100 / SHEET: 1 OF 1

Regal Beloit America, Inc.

DESCRIPTION: OUTLINE
250T FR.-ALUM. FR.-TEFC

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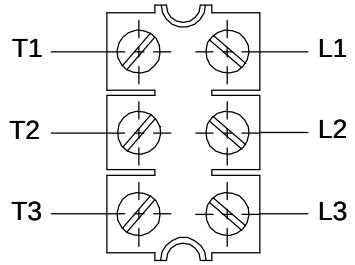
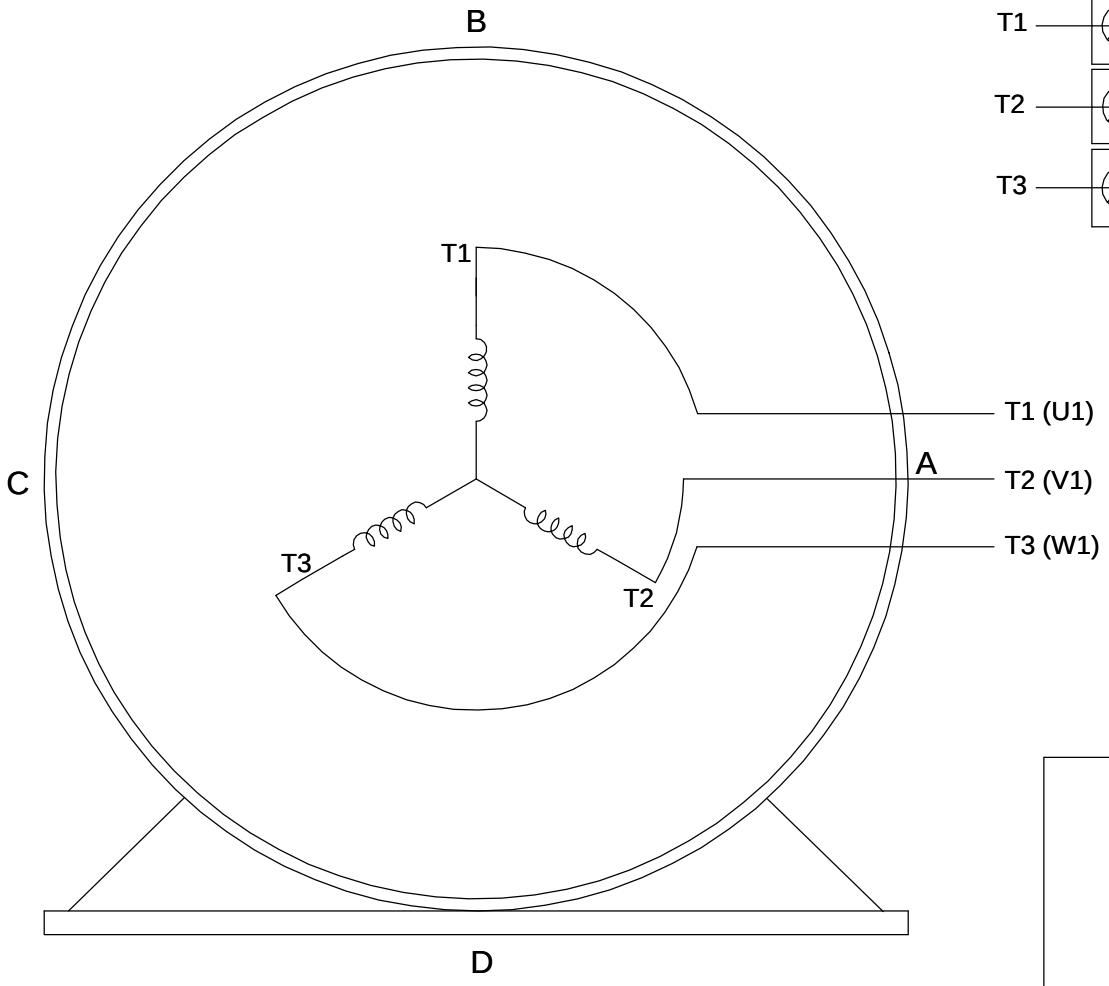
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

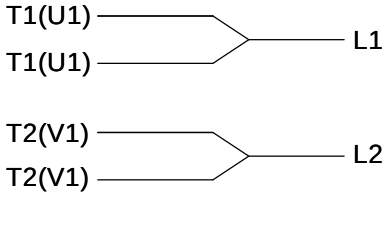
TERMINAL BLOCK WHEN SPECIFIED





VIEW OF TERMINAL END

IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION: AB	REVISION BY: JJB	DATE: 06-27-2017
ECO: ECO-0125361	APPROVED BY: TB	DATE: 06-27-2017
ECO DESCRIPTION: UPDATED TO CURRENT STANDARDS		

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DRAWN BY: DA	
DATE: 03-26-1993	
APPROVED BY: TB	
DATE: 03-26-1993	
REFERENCE	
THIRD ANGLE PROJECTION	

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300	1 OF 1

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300 **CAT #:** LM34117
OUTLINE: B-SS321100-1200
WINDING: K254826 R6 5

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	900	875	254T	TEFC	TFY	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	6	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	88.5	3/4 LD EFF	88.0	1/2 LD EFF	86.5	GTD EFF	ELECT. TYPE
F.L. PF	71.0	3/4 LD PF	64.5	1/2 LD PF	52.5	86.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
30.0 LB-FT	25.6	42.0 LB-FT 140%	66.0 LB-FT 220%	40	

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
54 dBA	63 dBA	2.50 LB-FT²	0 LB-FT²	20 SEC.	0	350 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	GRAY - LINCOLN

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6309	BALL 6208	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
2.157	1.917	7.766	9.585	92.3	0.150	ODE

* NOTES *

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: V-INS, CONST UL REC

DATE: 1/19/2018

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Data Sheet

Date: 1/19/2018

LEESON

LM34117

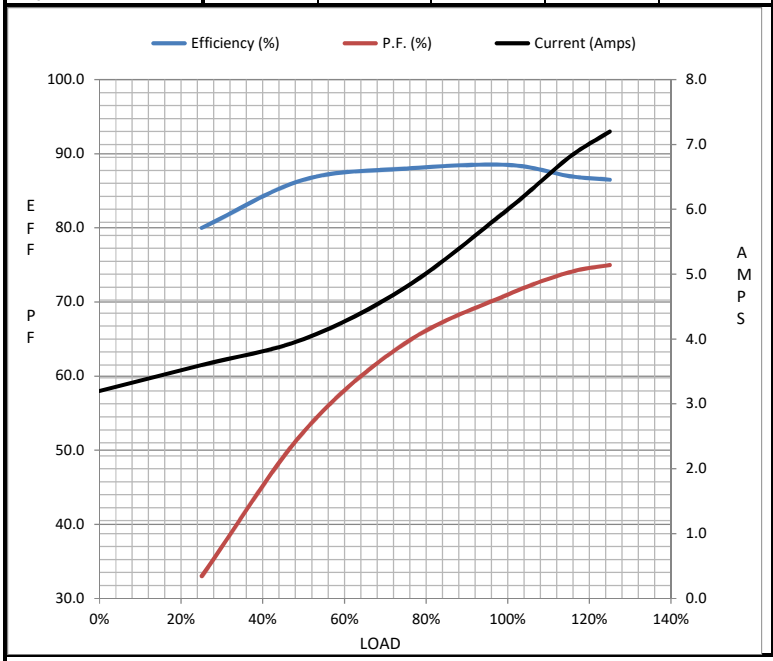
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.2	3.6	4.0	4.8	6.0	6.8	7.2	25.6	
Torque (ft-lb)	0.00	7.5	15.0	22.5	30.0	35.0	38.0	42.0	
RPM	900	895	885	880	875	870	865	0	
Efficiency (%)		80.0	86.5	88.0	88.5	87.0	86.5		
P.F. (%)	6.5	33.0	52.5	64.5	71.0	74.0	75.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	780	875	900
Current (Amps)	25.6	23.2	16.0	6.0	3.2
Torque (ft-lb)	42.0	38.0	66.0	30.0	0.00



Information Block

HP	5.0	
Sync. RPM	900	
Frame	254	
Enclosure	TEFC	
Construction	TFY	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	40	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	2.50	Lb-Ft²
Ref Wdg	K254826 R6	
Sound Pressure @ 1M	54	dBA
VFD Rating	NONE	
Outline Dwg	B-SS321100-1200	
Conn. Diag	A-EE7300	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.1570	1.9170	7.7660	9.5850	92.3000

Speed -Torque Curve