

# PRODUCT INFORMATION PACKET



Model No: LM34217  
Catalog No: LM34217  
10 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 215T Frame, TEFC  
575 Volts Motors



Regal and Leeson are trademarks of Regal Beloit Corporation or one of its affiliated companies.  
©2019 Regal Beloit Corporation, All Rights Reserved. MC017097E





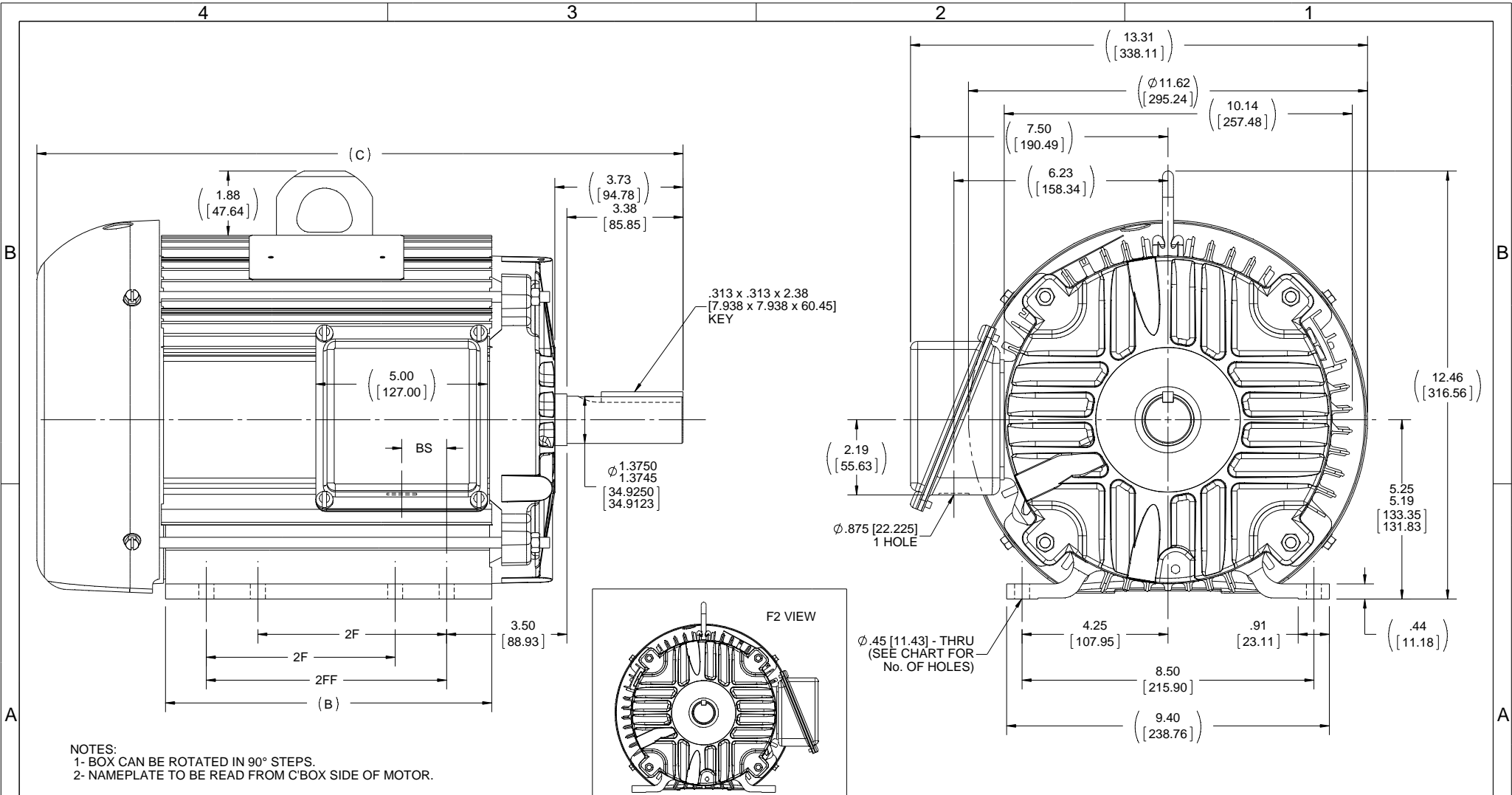
### Nameplate Specifications

Output HP	<b>10 Hp</b>	Output KW	<b>7.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>10.7 A</b>	Speed	<b>1765 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>91.7 %</b>	Power Factor	<b>76.9</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>H</b>
Frame	<b>215T</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No</b>	Ambient Temperature	<b>50 °C</b>
Drive End Bearing Size	<b>6208</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.941 Ohms</b>	Mounting	<b>Rigid base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Aluminum</b>
Shaft Type	<b>T</b>	Overall Length	<b>18.84 in</b>
Frame Length	<b>9.62 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.38 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:01/11/2019



NOTES:  
 1- BOX CAN BE ROTATED IN 90° STEPS.  
 2- NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS	F1/F2	No. OF MTG HOLES
800	213T	8.12 [206.25]	17.34 [440.44]	5.50 [139.70]	---	1.33 [33.76]	NO	4
950	213/5T	9.62 [244.35]	18.84 [478.54]	5.50 [139.70]	7.00 [177.80]	1.33 [33.76]	YES	8
1050	215T	10.62 [269.75]	19.84 [503.94]	7.00 [177.80]	8.00 [203.20]	1.33 [33.76]	YES	8

DRAWING REVISION E  
 ECO ECO-0073312  
 ECO DESCRIPTION UPDATED TO CURRENT STANDARDS  
 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 OWNERS 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.

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 SHOWN IN [BRACKETS]

DRAWN BY MJK  
 DATE 04-20-2004  
 APPROVED BY JPL  
 DATE 04-20-2004  
 REFERENCE

**REGAL**™ Regal Beloit America, Inc.

DESCRIPTION  
**OUTLINE**  
 210T FR - ALUM FR - TEFC

MATERIAL PROCESS/FINISH

THIRD ANGLE PROJECTION

SIZE B DRAWING NUMBER **SS330100LN** SHEET 1 OF 1

**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 <b>AB</b>	REVISION BY <b>JJB</b>	DATE <b>06-27-2017</b>
ECO <b>ECO-0125361</b>	APPROVED BY <b>TB</b>	DATE <b>06-27-2017</b>
ECO DESCRIPTION <b>UPDATED TO CURRENT STANDARDS</b>		
<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>		



DRAWN BY <b>DA</b>
DATE <b>03-26-1993</b>
APPROVED BY <b>TB</b>
DATE <b>03-26-1993</b>
REFERENCE
THIRD ANGLE PROJECTION

<b>Regal Beloit America, Inc.</b>	
MATERIAL	PROCESS/FINISH
SIZE <b>A</b>	DRAWING NUMBER <b>EE7300</b>
SHEET <b>1 OF 1</b>	



1051 CHEYENNE AVE.  
 GRAFTON, WI 53024  
 PH. 262-277-8810

DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: A-EE7300  
 OUTLINE: SS330100LN-950  
 WINDING: K2154512

CAT #: LM34217

R1 4

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1800	1765	215T	TEFC	TFL	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMIB	ELEV.
3	60	575	10.7	LINE OR INVERTER	CONT	F	1.15	50	3300

F.L. EFF	91.7	3/4 LD EFF	90.9	1/2 LD EFF	90.6	GTD EFF	ELECT. TYPE
F.L. PF	76.9	3/4 LD PF	70.1	1/2 LD PF	57.2	90.2	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
29.8 LB-FT	64.8	71.0 LB-FT	89.0 LB-FT	55

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 DBA	71 DBA		1.00 LB-FT²	50 LB-FT²	25 SEC.	2	150 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	WATTS/SAVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE							
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		ALUMINUM
6208	6206						

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
0.957	0.714	2.898	3.369	56.074	0.150	ODE

* N O T E S *	INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE
	BRAKE: NONE
	FT-LB: N/A
	VOLTAGE: NONE
	UL: V-INS, CONST UL REC

DATE: 9/4/2018

Data Sheet

Date: 9/4/2018

LM34217



Data @ 575 V

Motor Load Data

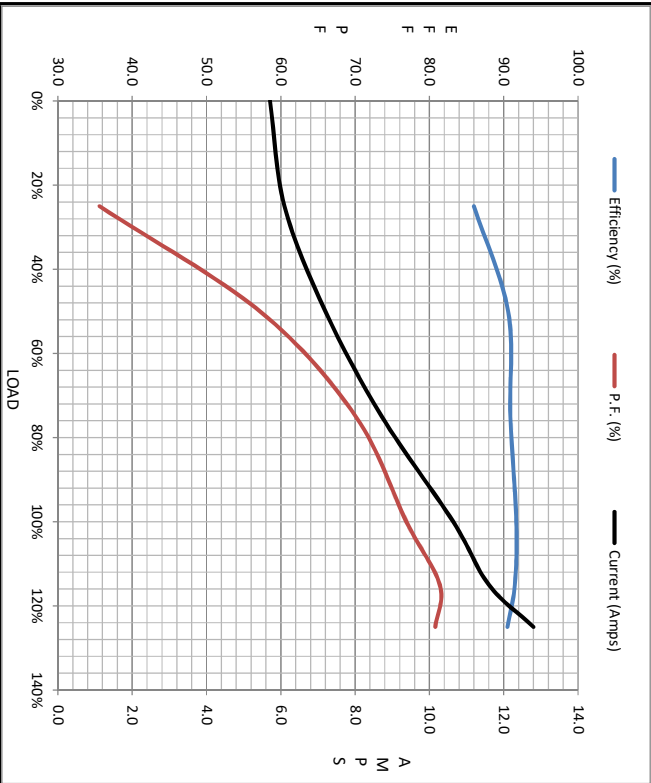
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.7	6.1	7.2	8.7	10.6	11.6	12.8	64.8
Torque (ft-lb)	0.00	7.3	14.7	22.0	29.8	34.5	37.4	71.0
RPM	1800	1791	1780	1771	1765	1,755	1755	0
P.F. (%)	4.7	86.0	90.6	90.9	91.7	91.5	90.5	
		36.6	57.2	70.1	76.9	81.4	80.8	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1575	1765	1800
Current (Amps)	64.8	57.6	39.2	10.6	5.7
Torque (ft-lb)	71.0	59.0	89.0	29.8	0.00

Information Block

HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	TEFC			
Construction	TFL			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	1.00 Lb-Ft <sup>2</sup>			
Ref Wdg	K2154512 R1			
Sound Pressure @ 1M	62 dBA			
VFD Rating	VARIABLE 10-1			
Outline Dwg	SS330100LN-950			
Conn. Diag	A-E7300			
Additional Specifications:				
0				
0				
	EQUIV CKT (OHMS / PHASE)			
R1	R2	X1	X2	Xm
0.9570	0.7140	2.8980	3.3690	56.0740



Speed -Torque Curve

