PRODUCT INFORMATION PACKET

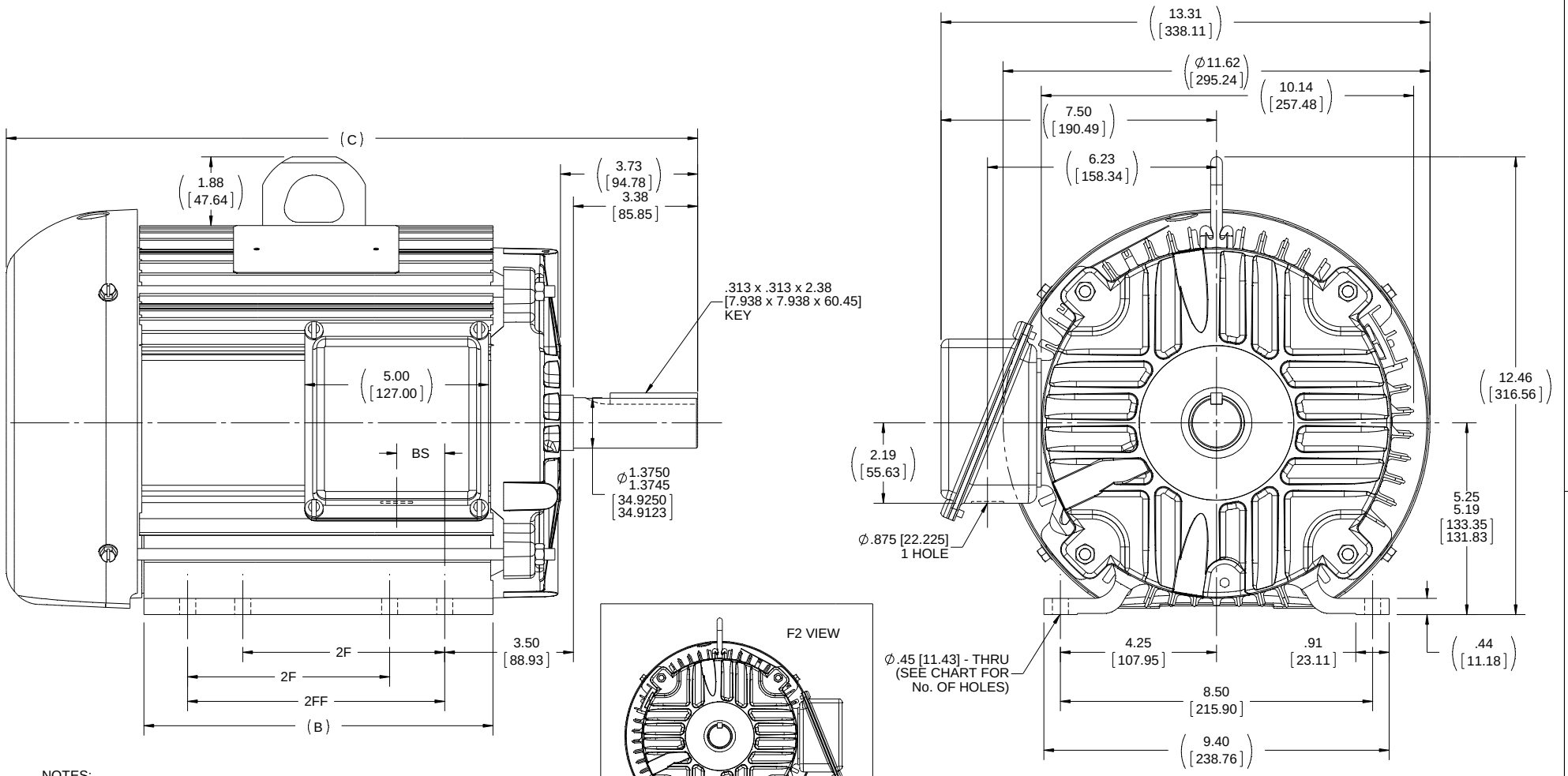
Model No: AF4B7.5T61
Catalog No: LM16029
213T TEFC 7.5HP1800 230460000/360
Totally Enclosed Fan Cooled (TEFC)

Nameplate Specifications

Output HP	**7.50 Hp**	Output KW	**5.6 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**19.2/9.6 A**	Speed	**1770 rpm**
Service Factor	**1.25**	Phase	**3**
Efficiency	**91.7 %**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**H**	Frame	**213T**
Enclosure	**Totally Enclosed Fan Cooled**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6208**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**		

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	**Aluminum**	Shaft Type	**T**
Overall Length	**18.84 in**	Frame Length	**9.50 in**
Shaft Diameter	**1.375 in**	Shaft Extension	**3.38 in**
Assembly/Box Mounting	**F1/F2 CAPABLE**		
Outline Drawing	**B-SS330100LN-950**	Connection Diagram	**A-EE7308-LN**



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	REVISION BY	DATE
E	JHA	04-13-2015
ECO	APPROVED BY	DATE
ECO-0073312	DJK	04-14-2015

ECO DESCRIPTION
UPDATED TO CURRENT STANDARDS

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	MJK
DATE	04-20-2004
APPROVED BY	JPL
DATE	04-20-2004
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
210T FR - ALUM FR - TEFC

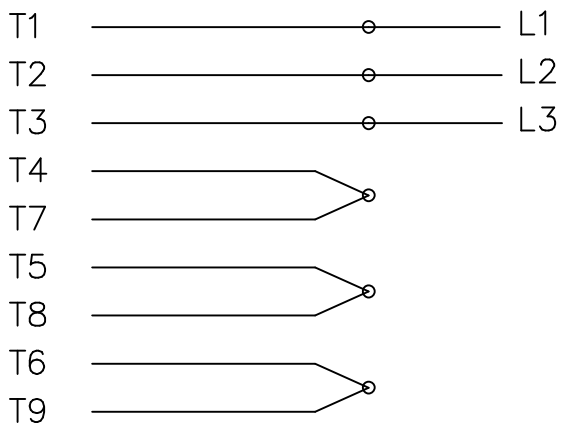
MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS330100LN	1 OF 1

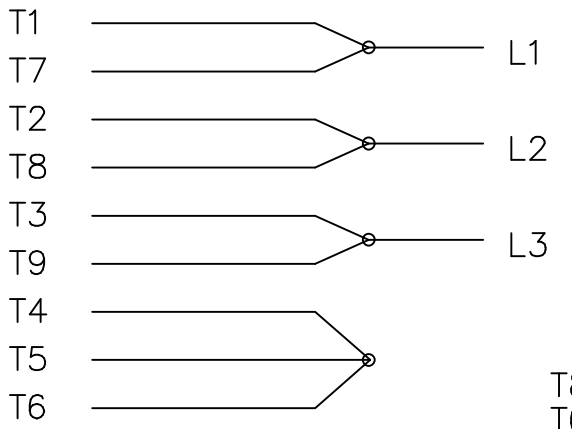
EE7308-LN

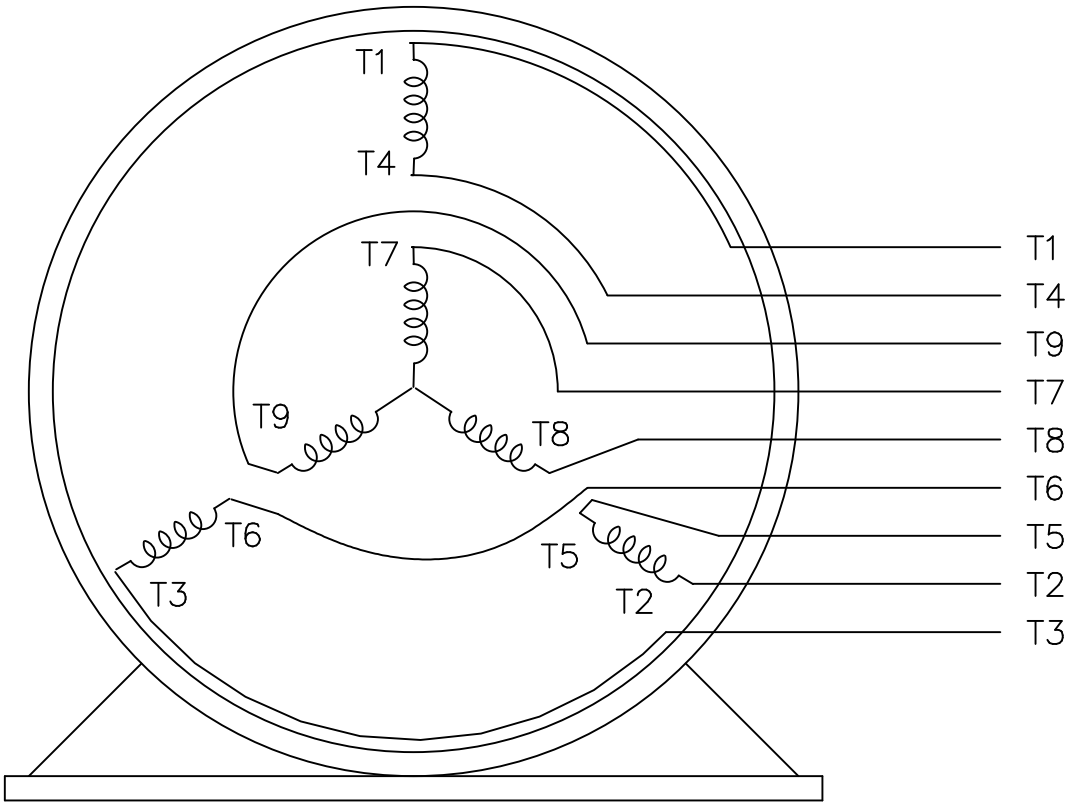
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE





VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

NO.	REVISION	BY & DATE	CHK
3	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
2	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR 08/09/1999	GK
1	NEW DRAWING	BLR 06/18/1999	GK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Lincoln MOTORS

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

CAD FILE EE7308LN

RFP

DIST WP

DRAWN	BLR 06/11/1999
CHK	ML 06/18/1999
APPD	GK 06/18/1999
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7308-LN | PAGE OF | REV. 3

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LEESON®

CERTIFICATION DATA SHEET

2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810

CONN. DIAGRAM: A-EE7308-LN

OUTLINE: B-SS330100LN-950

CATLOG # : LM16029

WINDING #: K2134263 R1 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&7 1/2	5.60&5.60	1800	1770&1455	213T	TEFC	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&380-415	19.2/9.6&11.4-11	ACROSS THE LINE	CONTINUOUS	F3	1.25/1.0	40

FULL LOAD EFF:	91.7&90.2	3/4 LOAD EFF:	91.7	1/2 LOAD EFF:	91	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	79.5&82	3/4 LOAD PF:	74	1/2 LOAD PF:	63	90.2	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.3 LB-FT	131 / 65.5	53 LB-FT 238 %	72 LB-FT 323 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.88 LB-FT^2	- LB-FT^2	25 SEC.	2	165 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - LINCOLN

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						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
FT-LB NONE V NONE Hz

7/20/2018

Data Sheet

Date: 1/18/2018

LEESON

LM16029

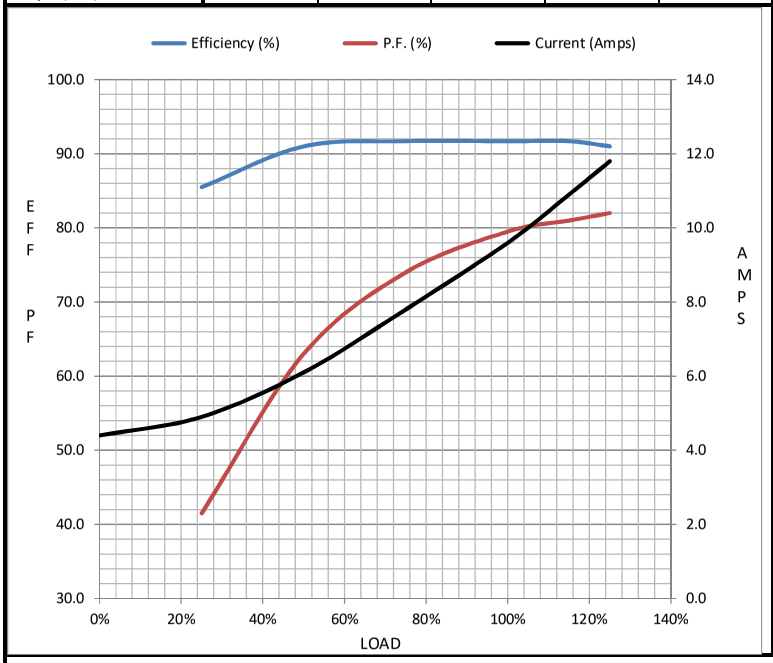
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.4	4.9	6.1	7.8	9.6	10.9	11.8	65.5	
Torque (ft-lb)	0.00	5.5	11.0	16.7	22.3	25.7	28.0	53.0	
RPM	1800	1790	1785	1775	1770	1,765	1760	0	
Efficiency (%)		85.5	91.0	91.7	91.7	91.7	91.0		
P.F. (%)	6.0	41.5	63.0	74.0	79.5	81.0	82.0	42.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1770	1800
Current (Amps)	65.5	59.0	38.5	9.6	4.4
Torque (ft-lb)	53.0	47.7	72.0	22.3	0.00



Information Block

HP	7.5	
Sync. RPM	1800	
Frame	213	
Enclosure	TEFC	
Construction	TFL	
Voltage	230/460#380-415	V
Frequency	60	Hz
Design	B	
LR Code letter	H	
Service Factor	1.15	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.88	Lb-Ft²
Ref Wdg	K2134263 R1	
Sound Pressure @ 1M	62	dBA
VFD Rating	NONE	
Outline Dwg	B-SS330100LN-950	
Conn. Diag	A-EE7308-LN	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.7370	0.5070	2.4990	3.8220	58.0610

Speed -Torque Curve