

PRODUCT INFORMATION PACKET



Model No: LM16029

Catalog No: LM16029

General Purpose Motor, 7.50 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 380-415 V, 1800 & 1500 RPM,
213T Frame, TEFC



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

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



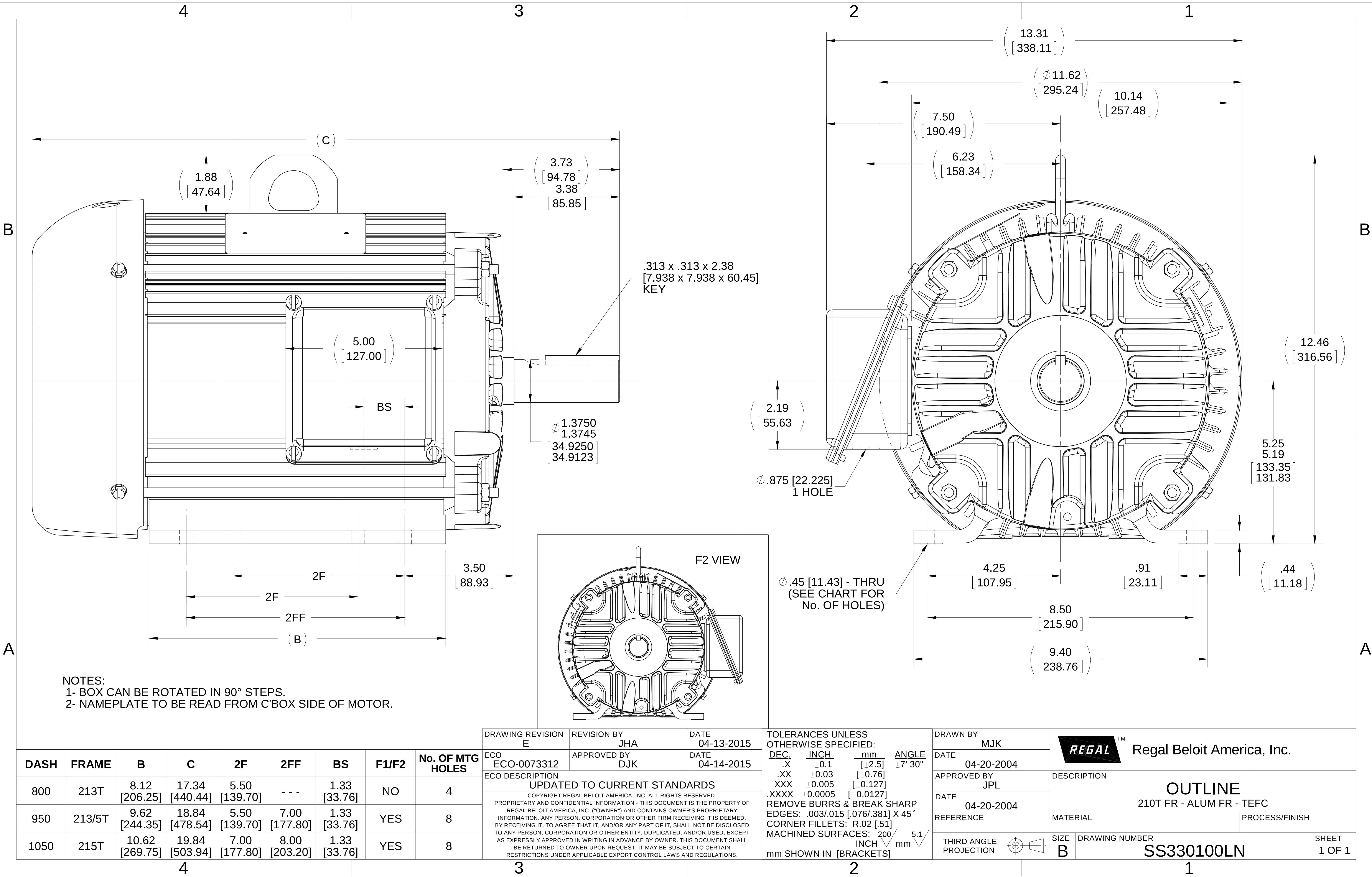


Nameplate Specifications

Phase	3	Output HP	7.50 & 7.50 Hp
Output KW	5.6 & 5.6 kW	Voltage	230/460 & 380-415 V
Speed	1770 & 1455 rpm	Service Factor	1.25 & 1.0
Frame	213T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	19.2/9.6 & 11.4-11 A	Power Factor	79.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6208	Opp Drive End Bearing Size	6206
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	4	Rotation	Reversible
Resistance Main	1.17 Ohms	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	SS330100LN-950	Connection Drawing	EE7308-LN



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

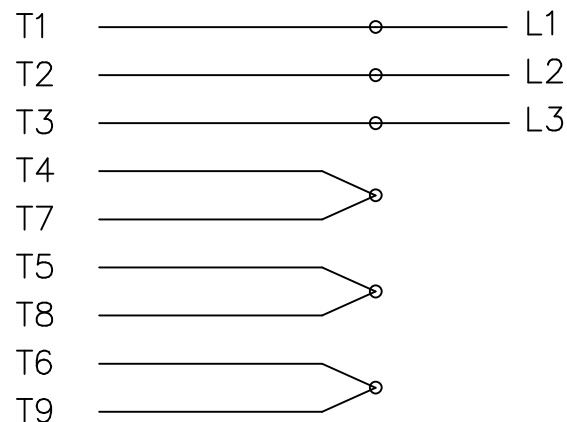
DRAWING REVISION	REVISION BY	DATE
E	JHA	04-13-2015
ECO	DJK	04-14-2015
ECO-0073312		
ECO DESCRIPTION		
UPDATED TO CURRENT STANDARDS		
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS 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.		

TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	± 0.1	[± 2.5]	$\pm 7^{\circ} 30'$
.XX	± 0.03	[± 0.76]	
.XXX	± 0.005	[± 0.127]	
.XXXX	± 0.0005	[± 0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°			
CORNER FILLETS: R.02 [.51]			
MACHINED SURFACES: 200 INCH 5.1 mm			
mm SHOWN IN [BRACKETS]			

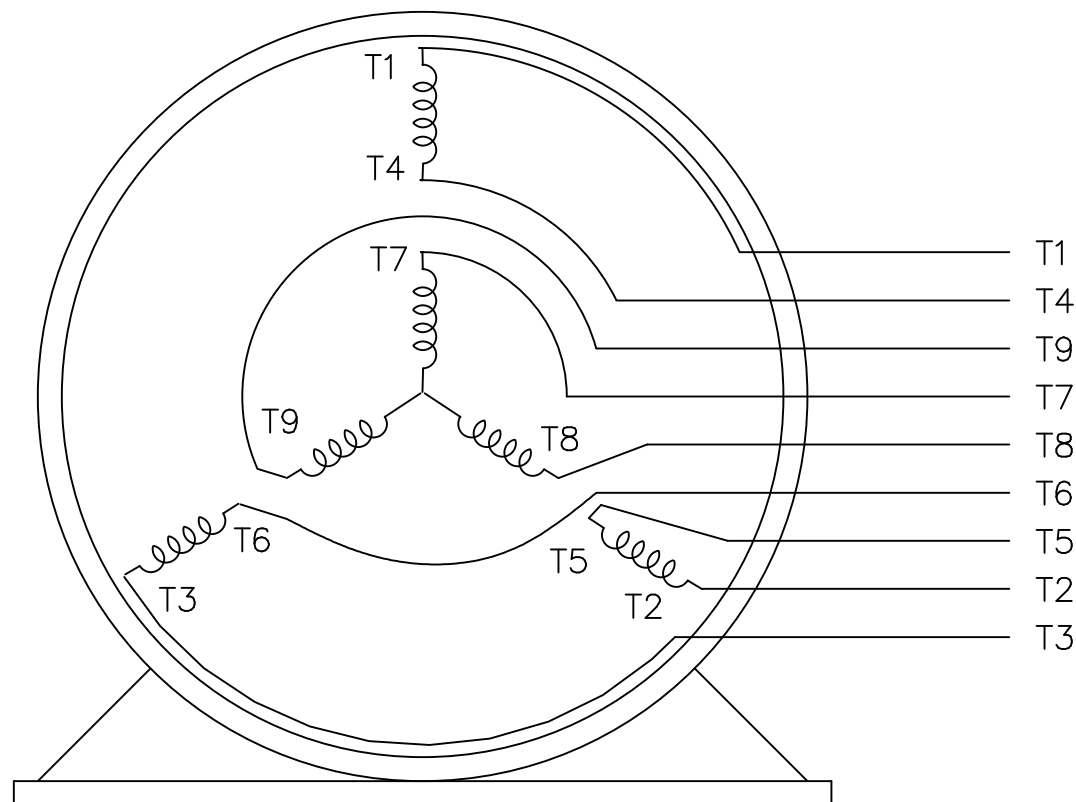
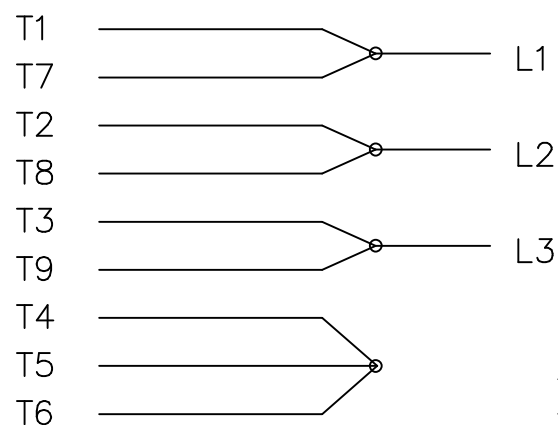
DRAWN BY	 Regal Beloit America, Inc.		
DATE			
APPROVED BY	DESCRIPTION		
DATE			
REFERENCE	MATERIAL		PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE	DRAWING NUMBER	SHEET
	B	SS330100LN	1 OF 1

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

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 06/11/1999		
				DEC.	INCHES		CHK ML 06/18/1999		
				.X	±.1		APPD GK 06/18/1999		
3	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XX	±.02	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR	SCALE 1=1		
2	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR 08/09/1999	GK	.XXX	±.005		REF		
1	NEW DRAWING	BLR 06/18/1999	GK	.XXXX	±.0005	MAT'L.	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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		CAD FILE EE7308LN	SIZE A	DRAWING NO. EE7308-LN	PAGE OF 3
				DIST WP					



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7308-LN

OUTLINE: B-SS330100LN-950

CATALOG # : 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

*
N
O
T
E
S
*

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

Data Sheet

Date: 1/18/2018

LM16029



Data @ 460 V

Motor Load Data

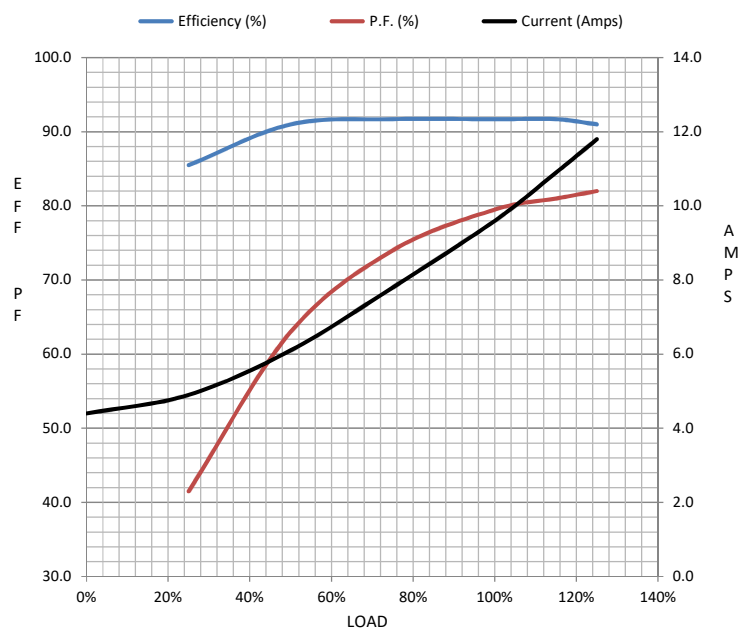
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.4	4.9	6.1	7.8	9.6	10.9	11.8	65.5	
Torque (ft-lb)	0.00	5.5	11.0	16.7	22.3	25.7	28.0	53.0	
RPM	1800	1790	1785	1775	1770	1765	1760	0	
Efficiency (%)		85.5	91.0	91.7	91.7	91.7	91.0		
P.F. (%)	6.0	41.5	63.0	74.0	79.5	81.0	82.0	42.5	

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

