

# PRODUCT INFORMATION PACKET



Model No: LM32807  
Catalog No: LM32807

General Purpose Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 900 RPM, 256T Frame, TEFC



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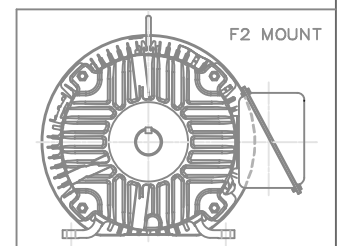
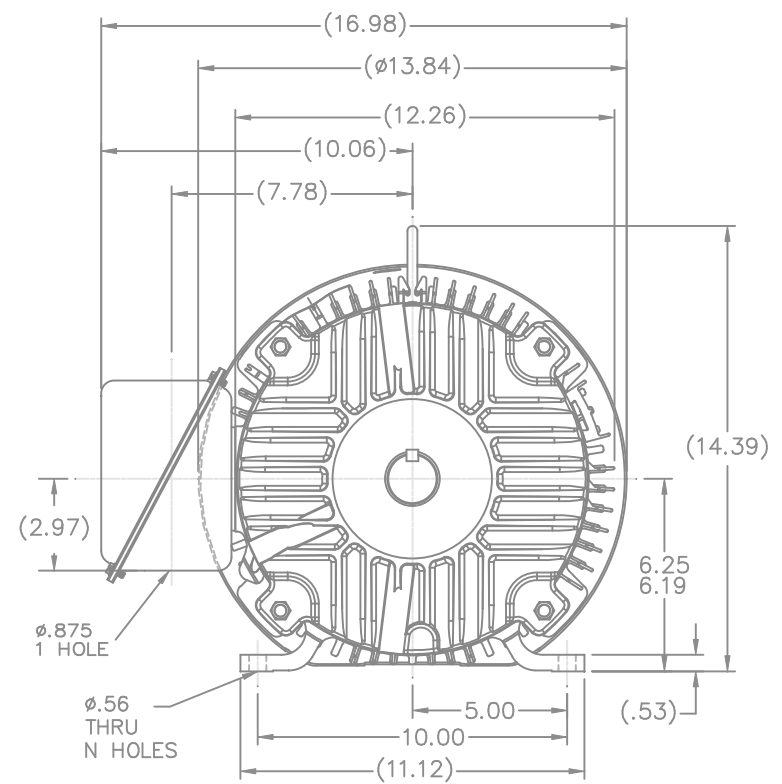
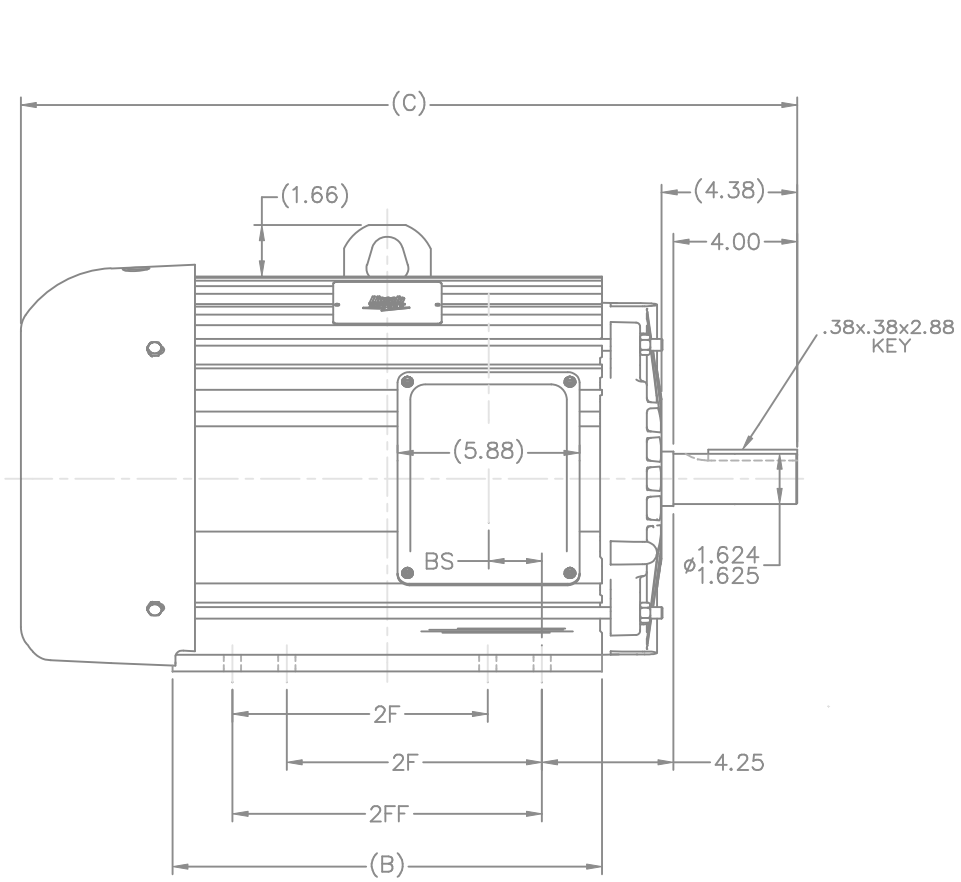


## Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	230/460 V
Current	23.0/11.5 A	Speed	872 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Power Factor	70
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	256T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	309	Opp Drive End Bearing Size	208
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		


## Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	8	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	25.15 in	Frame Length	13.75 in
Shaft Diameter	1.625 in	Shaft Extension	4 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Connection Drawing	EE7308-LN	Outline Drawing	SS321100LN-1375



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

DASH	FR.	C	B	BS	2F	2FF	N
1200	254T	23.40	12.13	1.73	8.25		4
1375	254/6T	25.15	13.88	1.73	8.25	10.00	8

				TOLERANCES UNLESS SPECIFIED				DRAWN MJK 03-29-2004	
				DEC. INCHES				CHK ML 03-29-2004	
3	B DIM 12.13 WAS 12.00, AND 13.88 WAS 13.75 CN 29200-3584	MJK 05/18/2004		.X ±.1				APPD JPL 03-29-2004	
2	25.15 WAS 25.65, 23.40 WAS 23.90 CN 32681	MJK 05/04/2004		.XX ±.03		TITLE OUTLINE 250T FR — ALUM. FR. — TEFC		SCALE 1=4	
1	(4.38) WAS (4.37), Ø1.624/1.625 WAS Ø1.624/1.624 CN 32681	MJK 04/29/2004		.XXX ±.005				REF	
				.XXXX ±.0005		MATL.		FIN	
NO.	REVISION	BY & DATE		CHK	ANG	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 ss321100ln		SIZE B	DRAWING NO. SS321100LN
				DIST LB				PAGE 3	REV. 3

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					



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

**CONN. DIAGRAM:** A-EE7308-LN

**OUTLINE:** B-SS321100LN-1375

**WINDING #:** K256847 R2 2

**CATALOG #:** LM32807

**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.60	900	872	256T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	23/11.5	LINE OR INVERTER	CONTINUOUS	F3	1.15	40

<b>FULL LOAD EFF:</b>	86.5	<b>3/4 LOAD EFF:</b>	85.5	<b>1/2 LOAD EFF:</b>	84	<b>GTD. EFF</b>		<b>ELEC. TYPE</b>
<b>FULL LOAD PF:</b>	70	<b>3/4 LOAD PF:</b>	62.5	<b>1/2 LOAD PF:</b>	50	84		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
45.2 LB-FT	116 / 58	90 LB-FT 199 %	105 LB-FT 232 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	2.8 LB-FT^2	- LB-FT^2	20 SEC.	-	415 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 (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL						
309	208	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM

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:** VARIABLE 10:1

**INV. HP SPEED RANGE:** NONE

**ENCODER:** NONE

NONE NONE

NONE NONE PPR

**BRAKE:** NONE NONE

NONE P/N NONE

NONE NONE

NONE FT-LB NONE V NONE Hz

## Data Sheet

Date: 1/19/2018

LM32807



Data @ 460 V

## Motor Load Data

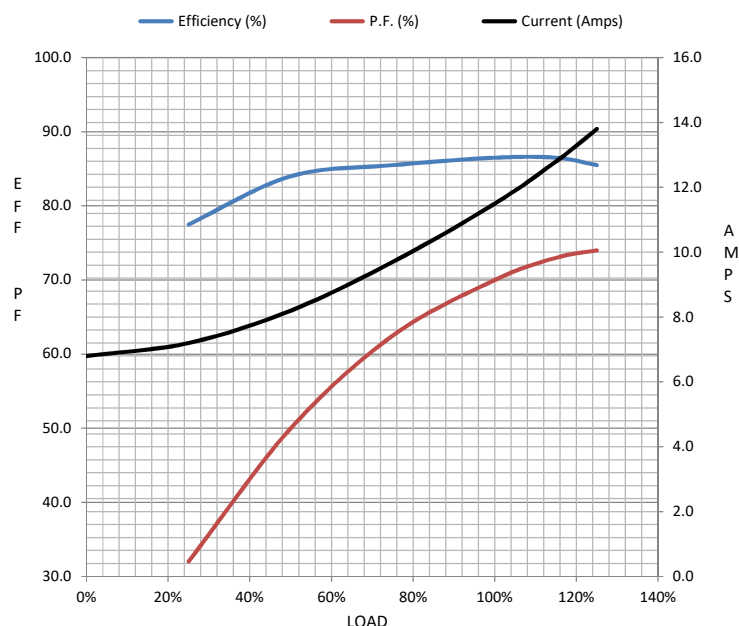
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.8	7.2	8.2	9.7	11.5	12.8	13.8	58.0	
Torque (ft-lb)	0.00	11.0	22.2	33.6	45.2	52.5	57.0	90.0	
RPM	900	892	885	880	872	865	862	0	
Efficiency (%)		77.5	84.0	85.5	86.5	86.5	85.5		
P.F. (%)	6.5	32.0	50.0	62.5	70.0	73.0	74.0	45.0	

## Motor Speed Data

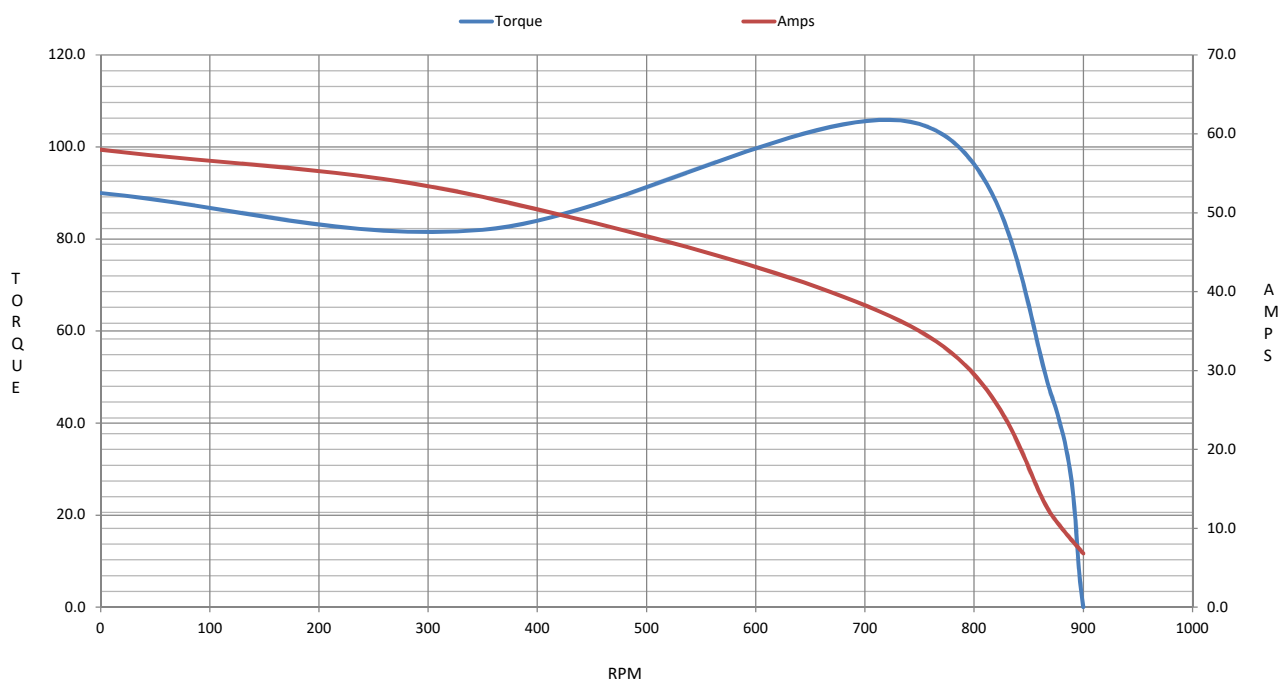
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	350	750	872	900
Current (Amps)	58.0	52.0	35.0	11.5	6.8
Torque (ft-lb)	90.0	82.0	105	45.2	0.00

## Information Block

HP	7.5			
Sync. RPM	900			
Frame	256			
Enclosure	TEFC			
Construction	TFY			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	2.80 Lb-Ft²			
Ref Wdg	K256847 R2			
Sound Pressure @ 1M	55 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS321100LN-1375			
Conn. Diag	A-EE7308-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



## Speed - Torque Curve



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : LM32807

(Model No. may contain prefix and/or suffix characters)

Catalog No : LM32807

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**