

# PRODUCT INFORMATION PACKET



Model No: LM30096

Catalog No: LM30096

Elevator Duty Motor, 20 & 25 HP, 3 Ph, 60 & 60 Hz, 230/460 & 230/460 V, 3600 & 3600 RPM,  
254T Frame, DP



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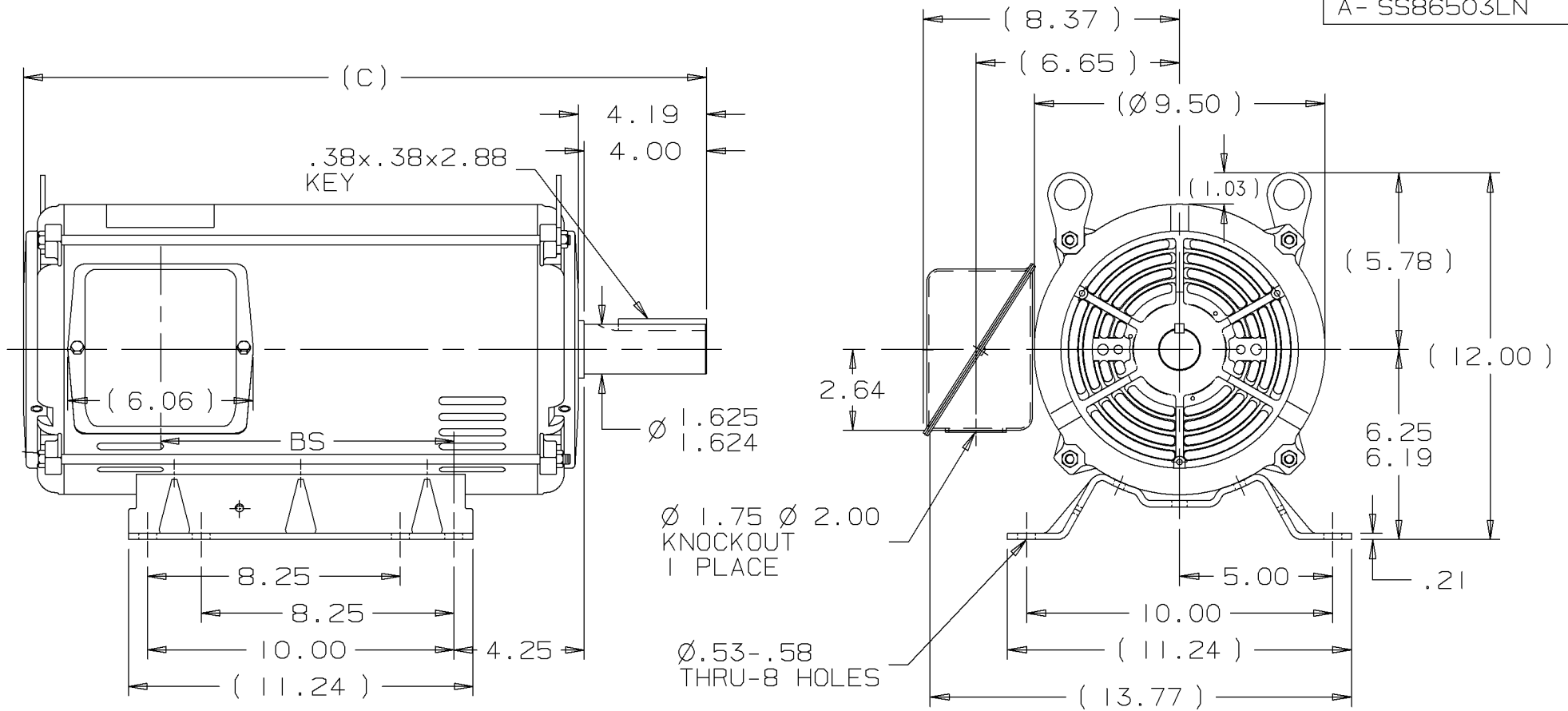


### Nameplate Specifications

Phase	3	Output HP	20 & 25 Hp
Output KW	14.9 & 18.7 kW	Voltage	230/460 & 230/460 V
Speed	3520 & 3520 rpm	Service Factor	1.0 & 1.0
Frame	254T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	46/23.1 & 59/29.5 A	Power Factor	88.6
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	B	KVA Code	E
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

### Technical Specifications


Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.485 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	20.57 in
Frame Length	13.70 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS86503LN-1370	Connection Drawing	EE7358-LN



DASH	FR.	C	BS	MOUNTING
1370	254T	20.57	7.68	F1 OR F2
1545	254T/256T	22.32	9.43	F1 OR F2

NOTES:

1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.
3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. (EXCEPT AS NOTED.)
4. F2 MOUNT -USES 2ND HOLE ON 1370 FRAME.

						UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30"	
2	01-31-2000	UPDATED CONDUIT BOX PER	CN 28427	TJB			MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED
					FINISH		DRAWN BY TRB 07-20-1999
1	07-20-1999	NEW DRAWING		TRB	MATERIAL		CHKD BY ML 07-20-1999
							APPD BY GK 07-20-1999
REV	DATE	CHANGE		NAME	PART NAME OUTLINE 250 FR. - BB - DR.PR.		DRWG NO A-SS86503LN

L | PURCHASED

CADD FILE NO.

SS86503LN

ERROR: syntaxerror  
OFFENDING COMMAND: --nostringval--

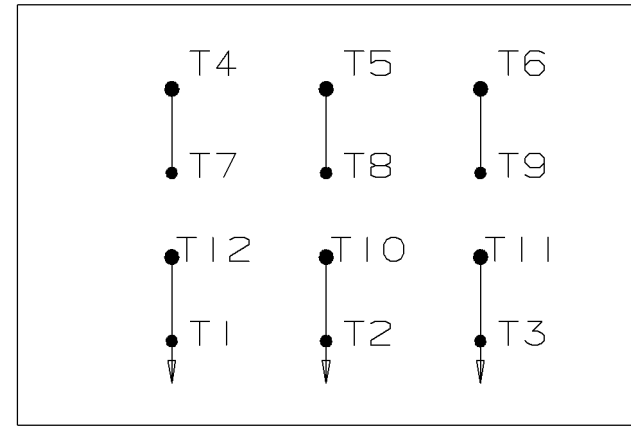
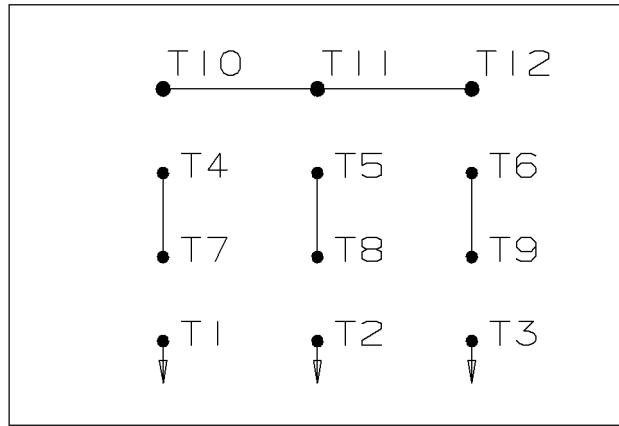
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WYE START

HIGH VOLTAGE

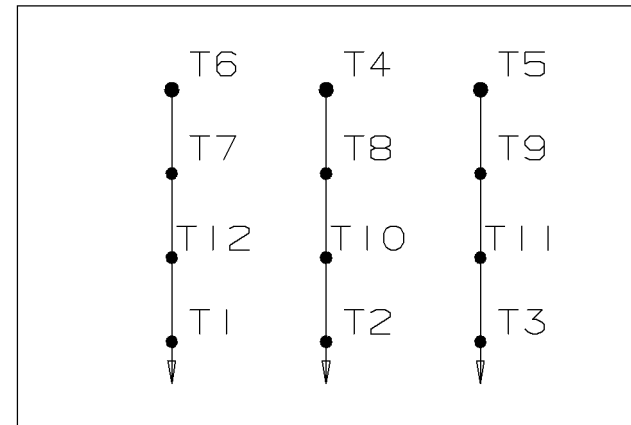
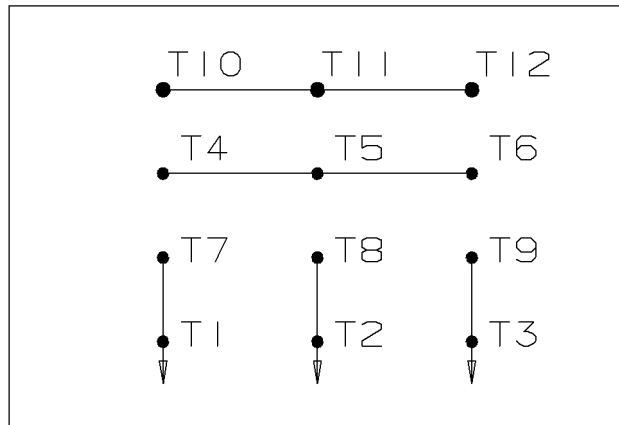
DELTA RUN



WYE START

LOW VOLTAGE

DELTA RUN



4/2 CKTY Δ

					<input checked="" type="checkbox"/> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX± .02    XXX± .005    XXXX± .0005    ANGLES± 7'30"		
						MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED FINISH MATERIAL	DRAWN BY DRS CHKD BY ML APPD BY TB
1	12-07-1999	NEW DRAWING	DRS	PART NAME CONNECTION DIAGRAM			DRWG NO A-EE7358-LN
REV	DATE	CHANGE	NAME				

PURCHASED | CADD FILE NO. | EE7358-LN

Data Sheet

Date: 1/30/2018

LM30096



Data @ **460 V**

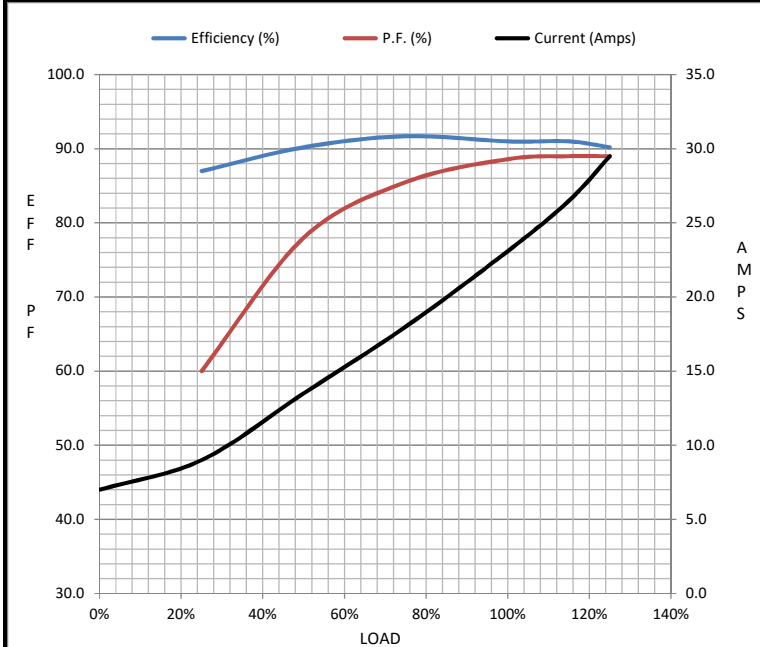
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	7.0	9.0	13.5	18.0	23.1	26.5	29.5	144
Torque (ft-lb)	0.00	7.5	15.0	22.2	30.0	34.5	37.5	52.5
RPM	3600	3580	3565	3545	3520	3,515	3490	0
Efficiency (%)		87.0	90.2	91.7	91.0	91.0	90.2	
P.F. (%)	9.0	60.0	78.0	85.5	88.6	89.0	89.0	40.0

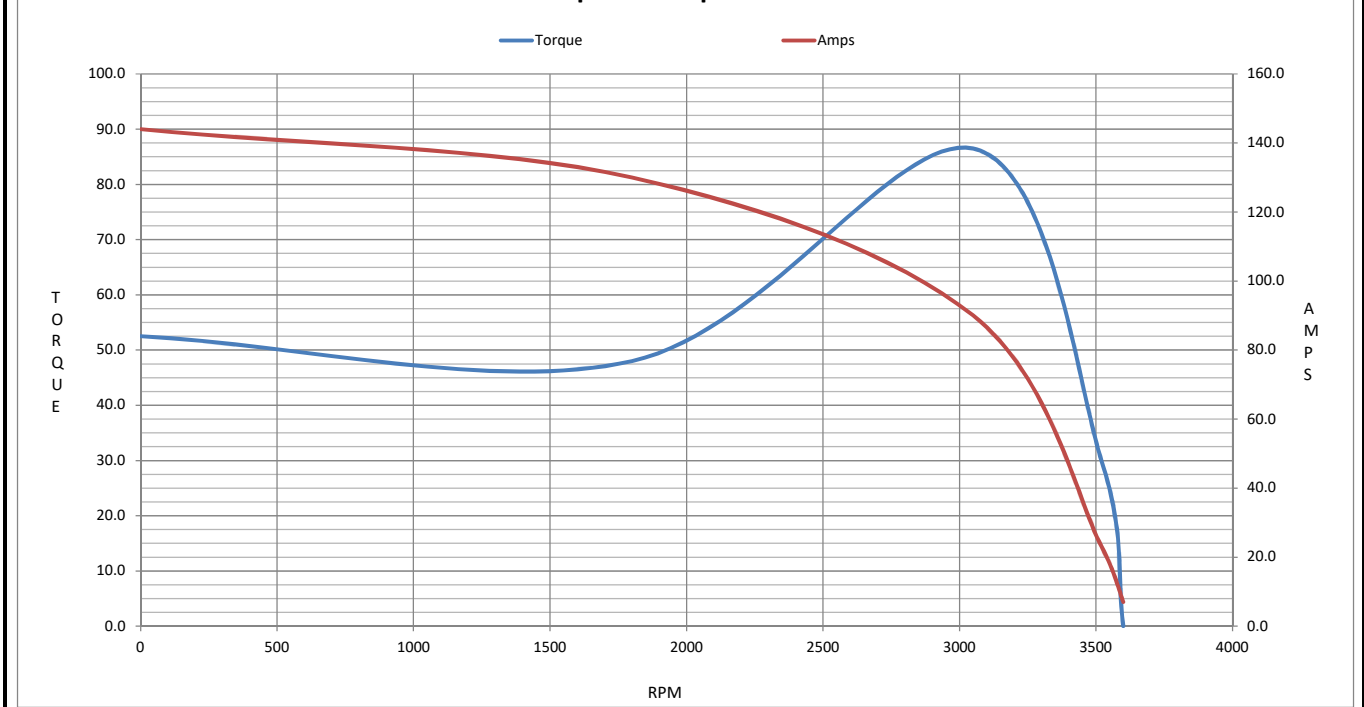
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3050	3520	3600
Current (Amps)	144	130	90.0	23.1	7.0
Torque (ft-lb)	52.5	48.0	86.5	30.0	0.00

Information Block				
HP	20.0			
Sync. RPM	3600			
Frame	254			
Enclosure	DP			
Construction	TDX			
Voltage	230/460#230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	60 MIN			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.65 Lb-Ft <sup>2</sup>			
Ref Wdg	K2152191 R3			
Sound Pressure @ 1M	78 dBA			
VFD Rating	NONE			
Outline Dwg	A-SS86503LN-1370			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2880	0.2300	1.0850	1.1460	35.0740



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 : LM30096

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

Catalog No : LM30096

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**