PRODUCT INFORMATION PACKET

Model No: LM30095
Catalog No: LM30095
Elevator Duty Motor, 20 & 25 HP, 3 Ph, 60 & 60 Hz, 200 & 200 V, 3600 & 3600 RPM, 254T Frame, DP

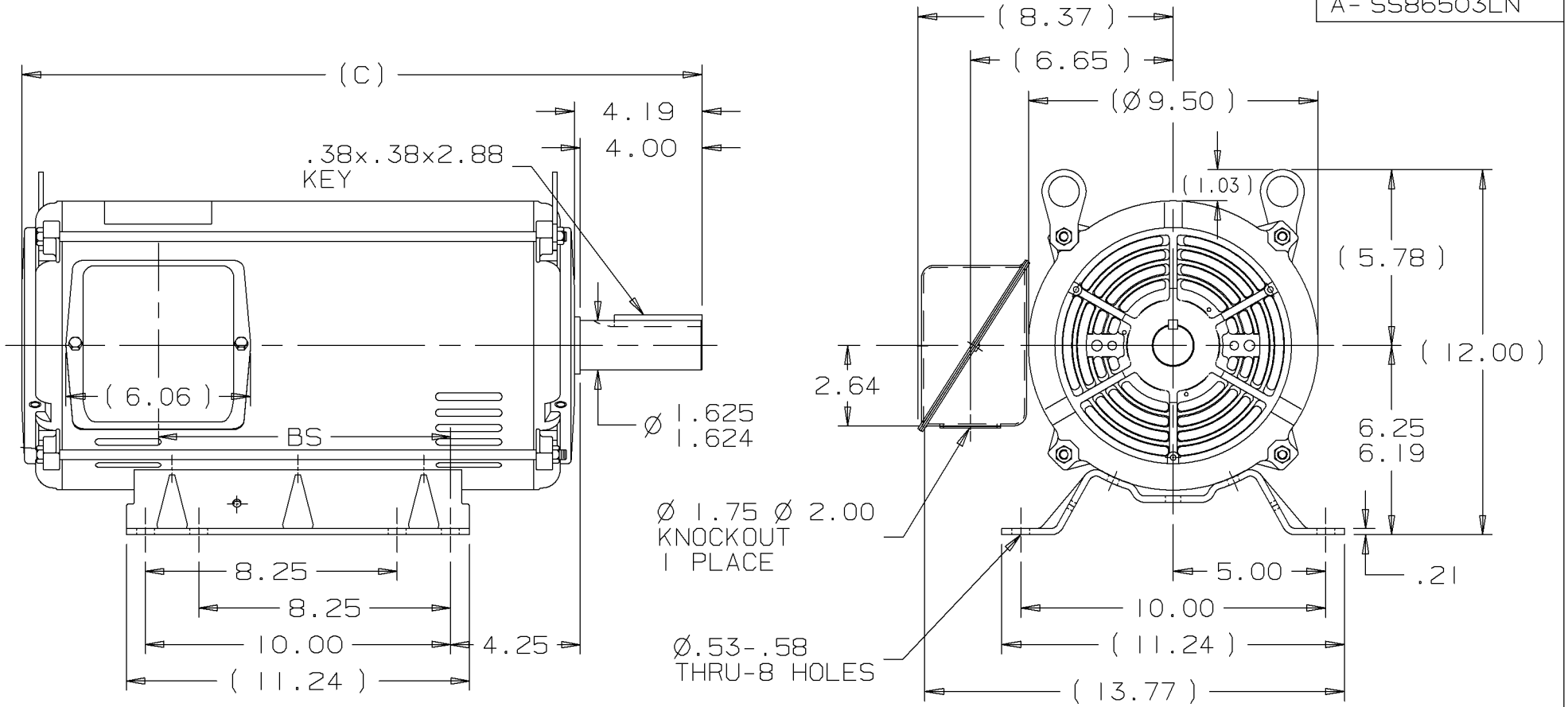
Nameplate Specifications

Phase	3	Output HP	20 & 25 Hp
Output KW	14.9 & 18.7 kW	Voltage	200 & 200 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	53 & 68 A	Power Factor	88.6
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	B	KVA Code	E
Drive End Bearing Size	309	Opp Drive End Bearing Size	208
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 ONLY
Connection Drawing	EE7340-LN	Outline Drawing	SS86503LN-1370

A- SS86503LN



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.

REV	DATE	CHANGE	NAME
2	01-31-2000	UPDATED CONDUIT BOX PER CN 28427	TJB
1	07-20-1999	NEW DRAWING	TRB

Lincoln MOTORS

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 TRB	07-20-1999
CHKD BY ML	07-20-1999
APPD BY GK	07-20-1999

PART NAME OUTLINE
250 FR. - BB - DR.PR.

DRWG NO
A- SS86503LN

L	PURCHASED	CADD FILE NO.	SS86503LN

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```
ERROR: syntaxerror
OFFENDING COMMAND: --nostringval--

STACK:

/RS
-dictionary-
/Pscript_WinNT_Compat
-dictionary-
```

START

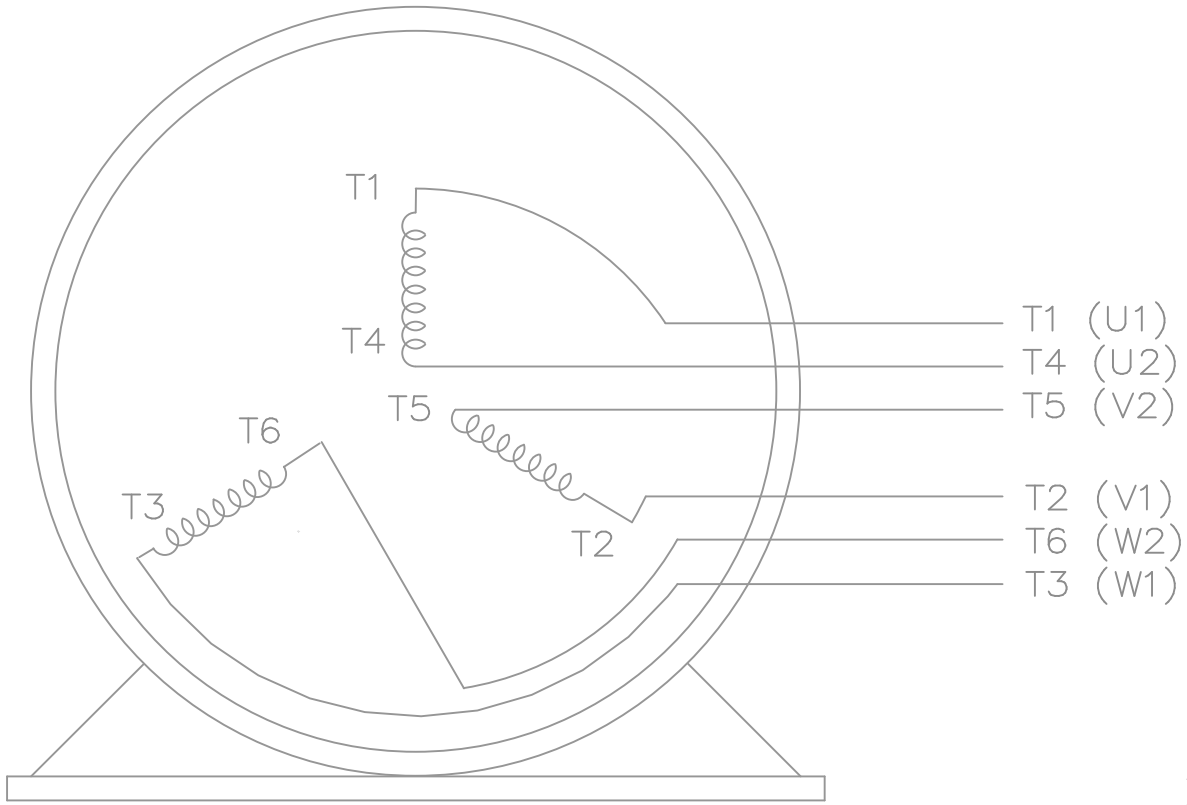
T1 (U1) — L1
T2 (V1) — L2
T3 (W1) — L3
T4 (U2)
T5 (V2)
T6 (W2)

RUN

T1 (U1), T6 (W2) — L1
T2 (V1), T4 (U2) — L2
T3 (W1), T5 (V2) — L3

NOTE:
IEC LEAD MARKINGS ARE NOTED IN PARENTHESES

THREE PHASE – Y START
△ RUN MOTOR



VIEW OF TERMINAL END

T6CK
T6BM
T4CC
T2DL
T4C

NO.	REVISION	BY & DATE	CHK
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML
1	NEW DRAWING	BLR 10-09-1999	

TOLERANCES UNLESS SPECIFIED

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

Lincoln MOTORS

TITLE CONNECTION DIAGRAM
3ø – WYE START DELTA RUN

MAT'L.
FINISH
CAD FILE ee7340_ln
RFP
DIST WA-LB-SB

DRAWN BLR 10-04-1999
CHK DRS 10-04-1999
APPD TB 10-04-1999
SCALE 1=1
REF
FMF
PREV

SIZE A
DRAWING NO. EE7340-LN
PAGE OF
REV. 3

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P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN **CAT #:** LM30095
OUTLINE: A-SS86503LN-1370
WINDING: K2152191 R3 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
20	14.9	3600	3520	254T	DP	TDX	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/60	200#200	53&68	VYE START DELTA RU	60 MIN	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.7	1/2 LD EFF	90.2	GTD EFF	ELECT. TYPE
F.L. PF	88.6	3/4 LD PF	85.5	1/2 LD PF	78.0	89.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
30.0 LB-FT	331	52.5 LB-FT 175%	86.5 LB-FT 288%	45

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
78 dBA	87 dBA	0.65 LB-FT²	0 LB-FT²	15 SEC.	2	160 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	GRAY - LINCOLN

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 309	BALL 208	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

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
0.054	0.043	0.205	0.217	6.63	0.150	ODE

NOTES
*
*
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: V-INS, CONST UL REC

DATE: 1/30/2018

Data Sheet

Date: 1/30/2018

LEESON

LM30095

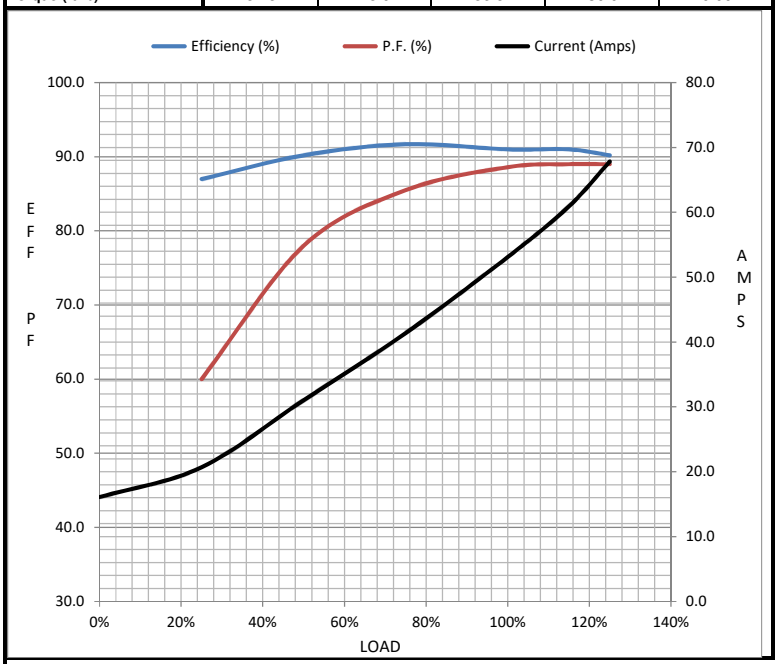
Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	16.1	20.7	31.1	41.4	53.1	61.0	67.9	331	
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)	331	299	207	53.1	16.1
Torque (ft-lb)	52.5	48.0	86.5	30.0	0.00



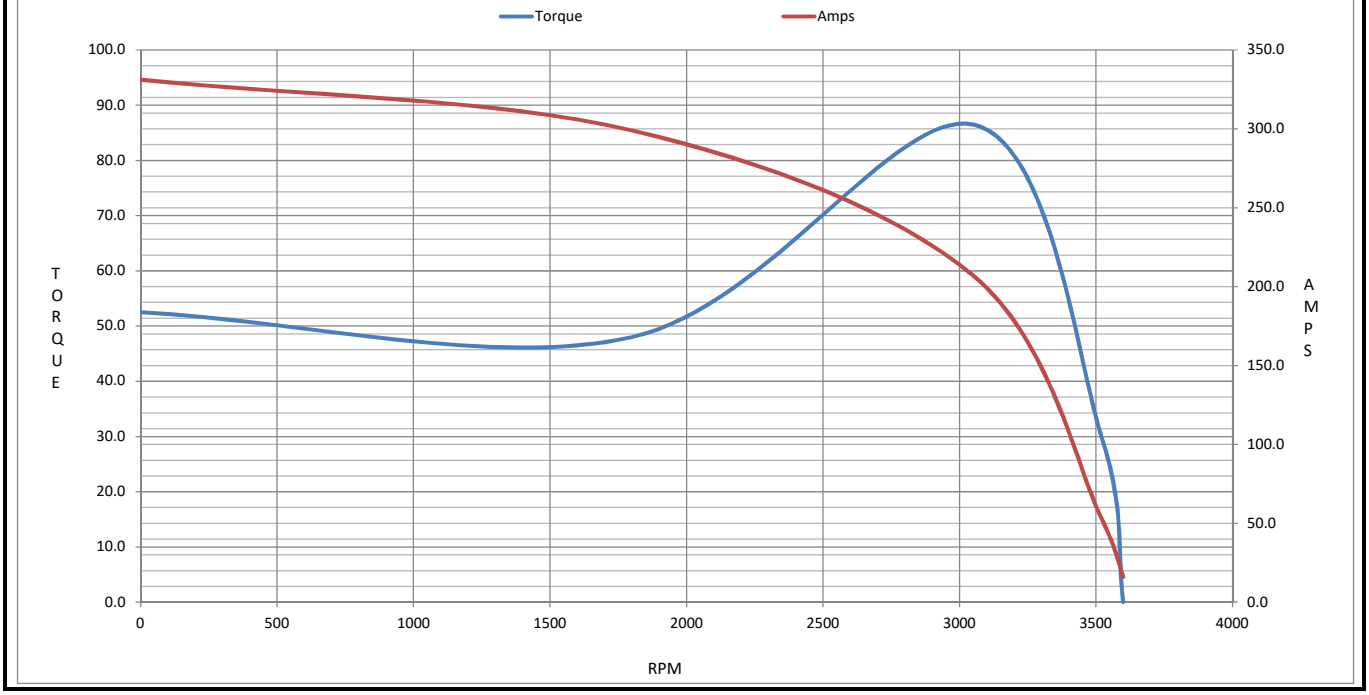
Information Block

HP	20.0	
Sync. RPM	3600	
Frame	254	
Enclosure	DP	
Construction	TDX	
Voltage	200#200	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 wk²	0.65	Lb-Ft²
Ref Wdg	K2152191 R3	
Sound Pressure @ 1M	78	dBA
VFD Rating	NONE	
Outline Dwg	A-SS86503LN-1370	
Conn. Diag	A-EE7340-LN	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0540	0.0430	0.2050	0.2170	6.6300

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 : LM30095

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

Catalog No : LM30095

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