

PRODUCT INFORMATION PACKET



Model No: LM28873

Catalog No: LM28873

Elevator Duty Motor, 15 & 20 HP, 3 Ph, 60 & 60 Hz, 200 & 200 V, 1800 & 1800 RPM, 254T Frame, DP



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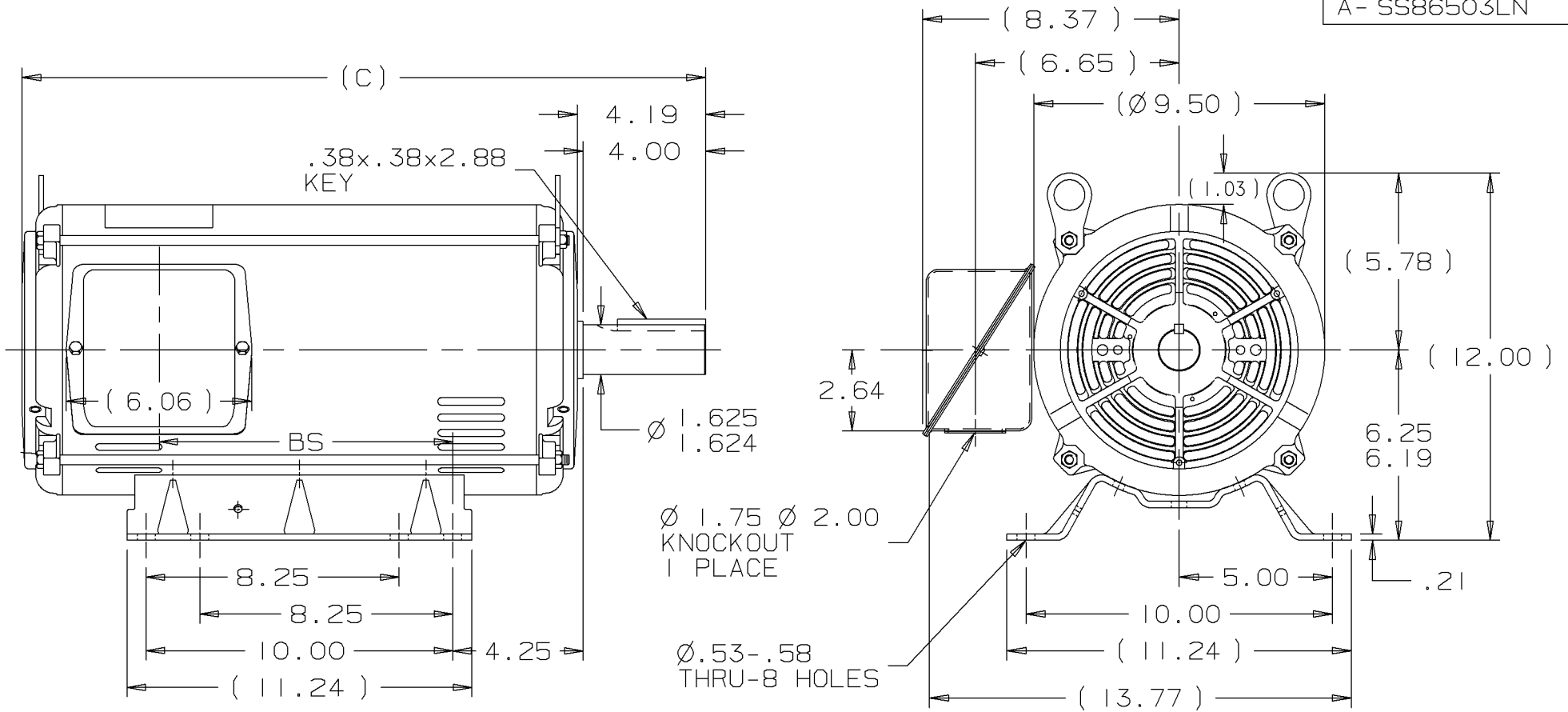


Nameplate Specifications

Phase	3	Output HP	15 & 20 Hp
Output KW	11.2 & 14.9 kW	Voltage	200 & 200 V
Speed	1760 & 1760 rpm	Service Factor	1.0 & 1.0
Frame	254T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	44 & 59 A	Power Factor	80.2
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	INV	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	4	Rotation	Reversible
Resistance Main	.62 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	22.32 in
Frame Length	15.53 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7340-LN	Outline Drawing	SS86503LN-1545



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			CHKD BY ML 07-20-1999
		CHANGE			PART NAME OUTLINE 250 FR. - BB - DR.PR.		APPD BY GK 07-20-1999
REV	DATE			NAME	DRWG NO A-SS86503LN		

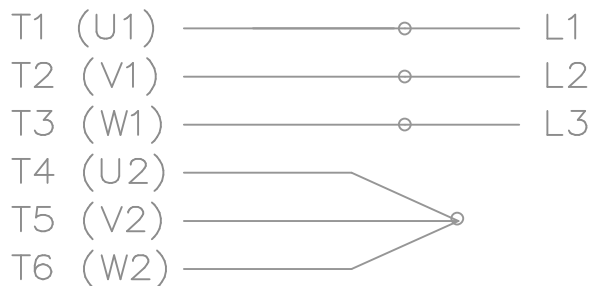
ERROR: syntaxerror
OFFENDING COMMAND: --nostringval--

STACK:

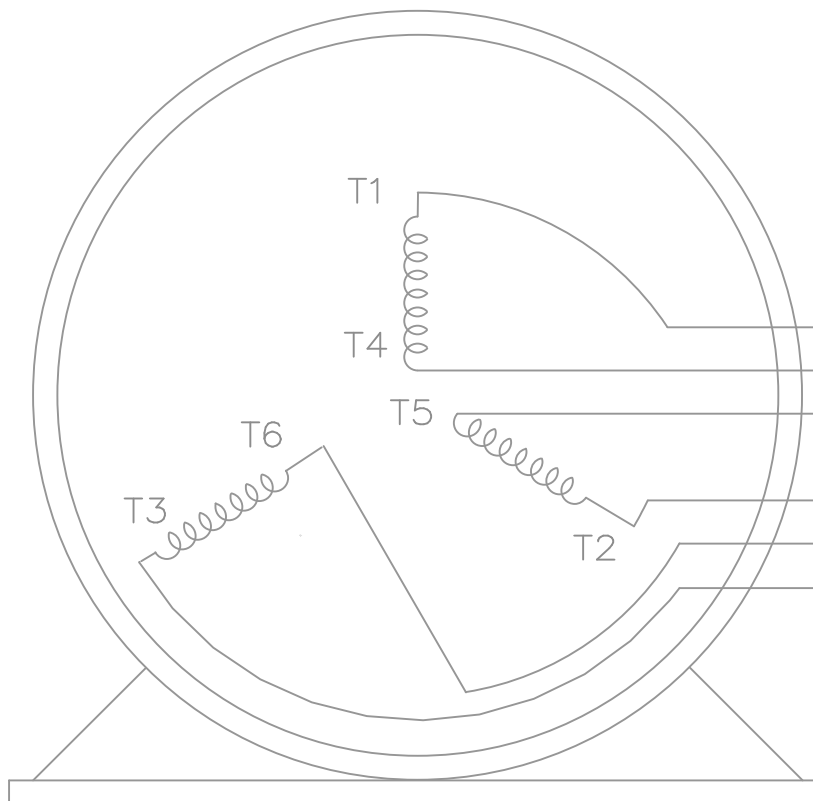
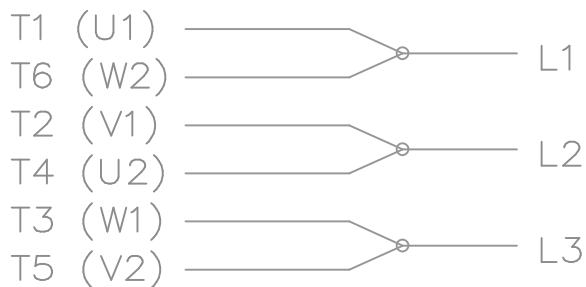
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THREE PHASE – Y START
Δ RUN MOTOR

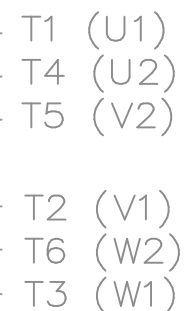
START



RUN




VIEW OF TERMINAL END



T6CK
T6BM
T4CC
T2DL
T4C

NOTE:
IEC LEAD MARKINGS ARE NOTED
IN PARENTHESES

			TOLERANCES UNLESS SPECIFIED			DRAWN BLR 10-04-1999			
			DEC.	INCHES		CHK DRS 10-04-1999			
			.X	±.1		APPD TB 10-04-1999			
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML	.XX	±.02	TITLE CONNECTION DIAGRAM	SCALE 1=1		
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005	3Ø – WYE START DELTA RUN	REF		
1	NEW DRAWING	BLR 10-09-1999		.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 ee7340_In		SIZE A	DRAWING NO. EE7340-LN	PAGE OF 3	REV. 3
			DIST	WA-LB-SB					



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: A-SS86503LN-1545
WINDING: K2154279

CAT #: LM28873

R1 12

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
15	11.2	1800	1760	254T	DP	TDX	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/60	200#200	44&59	VVE START DELTA RUN	60 MIN	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.7	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE
F.L. PF	80.2	3/4 LD PF	75.5	1/2 LD PF	65.5	89.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
44.5 LB-FT	267	100 LB-FT 225%	120 LB-FT 270%	0

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
70 dBA	79 dBA		1.40 LB-FT²	0 LB-FT²	0 SEC.	0	155 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	WATTSAVER

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

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
0.076	0.063	0.28	0.429	6.074	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE					
	ENCODER: NONE NONE NONE PPR					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE HZ:					
	UL: V-INS, CONST UL REC					

DATE: 8/21/2018

Data Sheet

Date: 3/4/2024
 Customer: _____
 Attention: _____
 Submitted by: RAMYA



LM28873

Submittal

Data @ 200 V

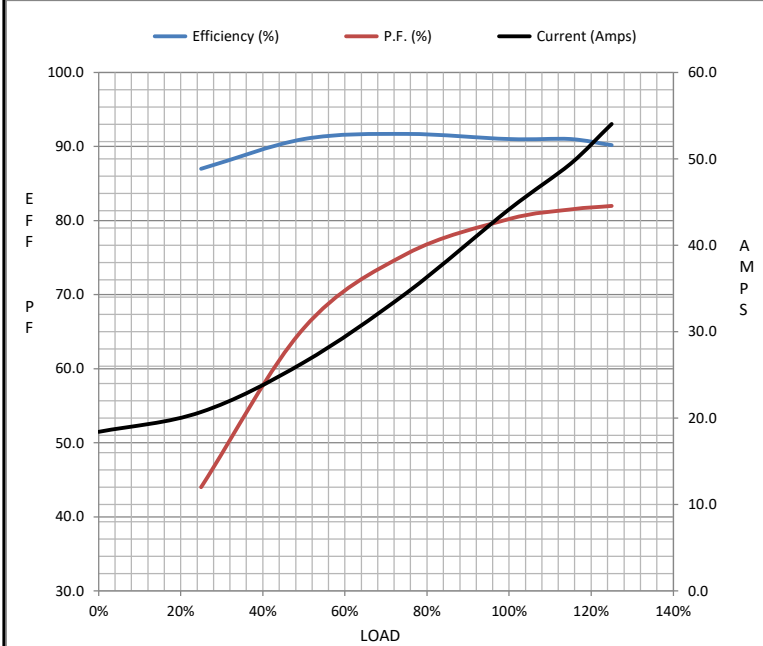
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	18.4	20.7	26.5	34.5	44.2	49.5	54.1	267
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.5	51.5	56.0	100
RPM	1800	1790	1785	1775	1760	1,755	1750	0
Efficiency (%)		87.0	91.0	91.7	91.0	91.0	90.2	
P.F. (%)	6.0	44.0	65.5	75.5	80.2	81.5	82.0	43.0

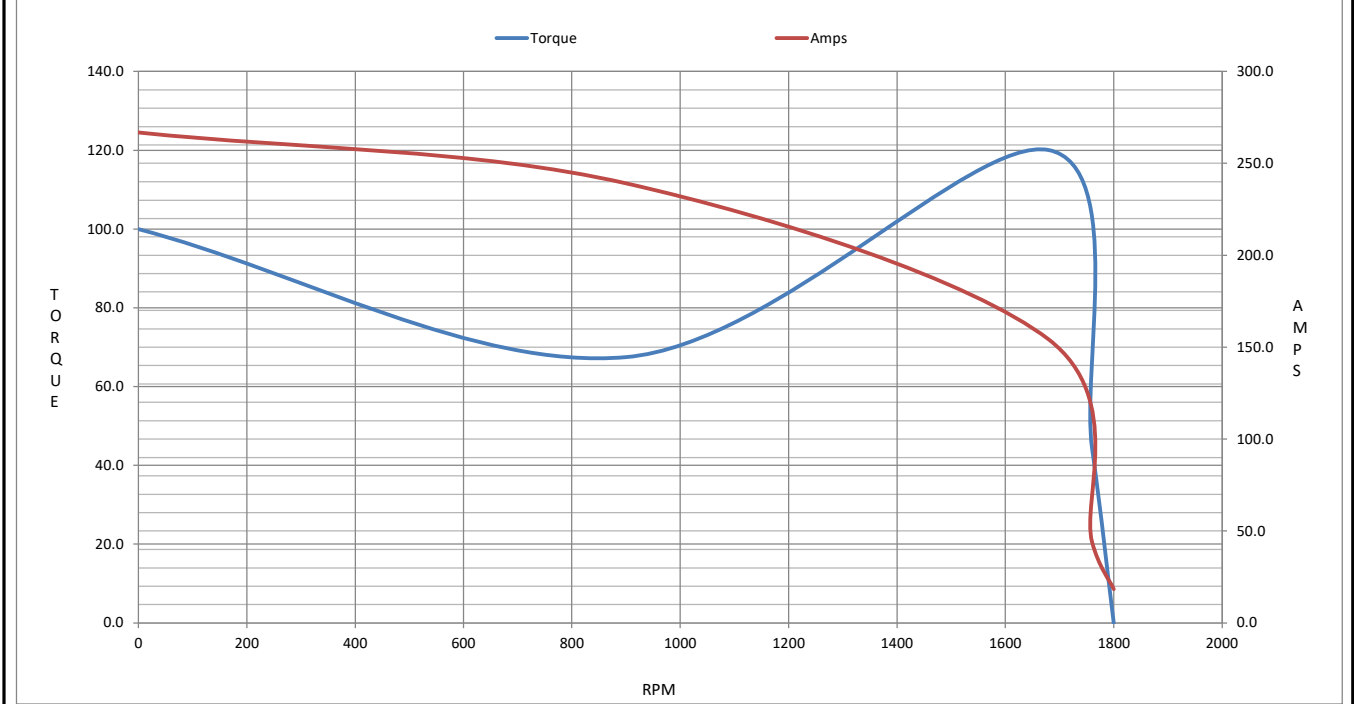
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1680	1760	1800
Current (Amps)	267	239	154	44.2	18.4
Torque (ft-lb)	100	67.5	120	44.5	0.00

Information Block				
HP	15.0			
Sync. RPM	1800			
Frame	254			
Enclosure	DP			
Construction	TDX			
Voltage	200#200 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1			
Temp Rise @ FL	0 °C			
Duty	120/80 STARTS/HOUR			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	1.40 Lb-Ft ²			
Ref Wdg	K2154279 R1			
Sound Pressure @ 1M	70 dBA			
VFD Rating	NONE			
Outline Dwg	SS86503LN-1545			
Conn. Diag	EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0760	0.0630	0.2800	0.4290	6.0740



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 : LM28873

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

Catalog No : LM28873

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