

PRODUCT INFORMATION PACKET



Model No: LM29853

Catalog No: LM29853

Elevator Duty Motor, 30 & 40 HP, 3 Ph, 60 & 60 Hz, 230/460 & 230/460 V, 1800 & 1800 RPM,
286T Frame, DP



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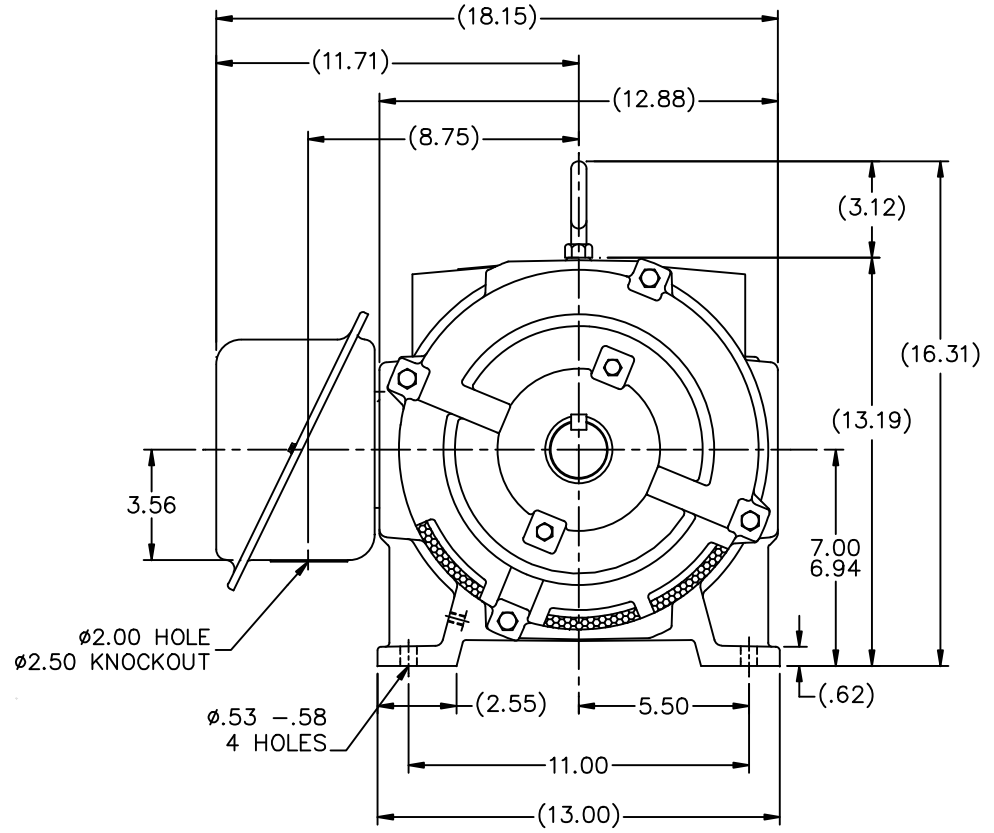
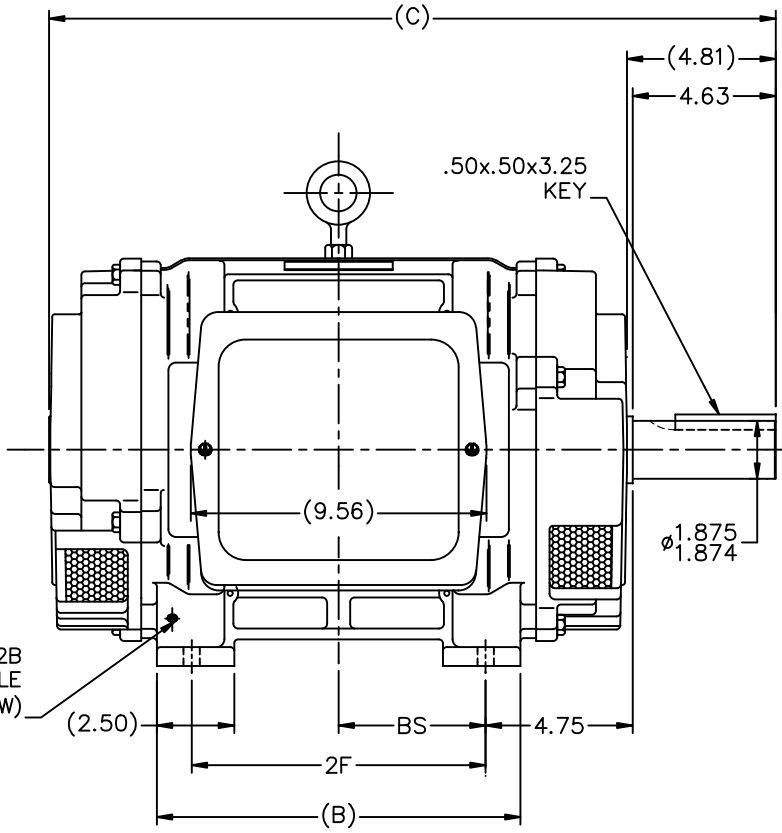


Nameplate Specifications

Phase	3	Output HP	30 & 40 Hp
Output KW	22.4 & 30.0 kW	Voltage	230/460 & 230/460 V
Speed	1770 & 1770 rpm	Service Factor	1.0 & 1.0
Frame	286T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	92.4 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	72/36 & 97/48.5 A	Power Factor	84
Duty	120/80 Starts/Hour	Insulation Class	F
Design Code	INV	KVA Code	D
Drive End Bearing Size	311	Opp Drive End Bearing Size	210
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	.295 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	24.99 in
Frame Length	14.25 in	Shaft Diameter	1.875 in
Shaft Extension	4.63 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS200030LN-1425	Connection Drawing	EE7358-LN



- NOTES
1. BOX CAN BE ROTATED IN 90° STEPS
 2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

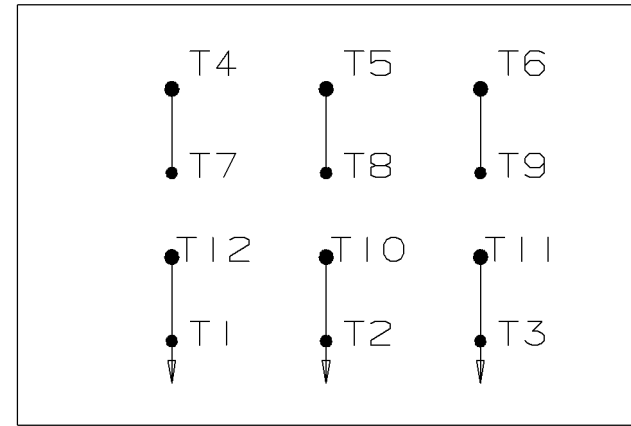
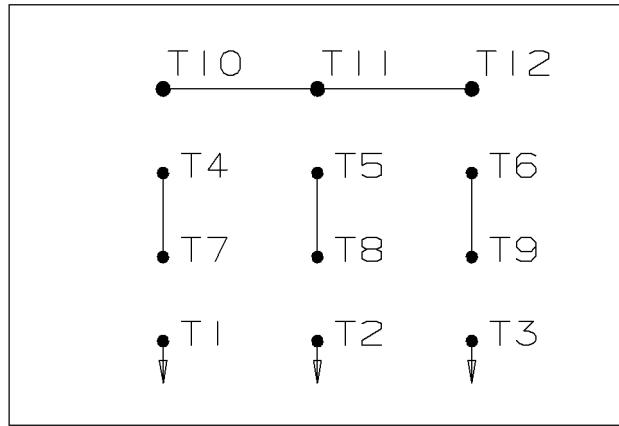
DASH	FRAME	B	C	2F	BS
1275	284T	11.75	23.49	9.50	4.75
1425	286T	13.25	24.99	11.00	5.50

		TOLERANCES UNLESS SPECIFIED		Lincoln MOTOR		DRAWN CTO 12-12-2003						
		DEC.	INCHES			CHK	ML 12-12-2003					
		.X	±.1			APPD	BW 12-12-2003					
		.XX	±.03	TITLE OUTLINE - DR.PR. - CAST IRON		SCALE	1=4					
2	ADDED SCREENS MU98659	EDK	12/3/2010	BW	.XXX ±.005	REF						
1	REV'D C'BOX HOLE 2.00/2.50 WAS JUST 2.00 MU 50269	ERH	07-14-2004	ML	.XXXX ±.0005	FMF	MU49135					
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	12-12-2003	CAD FILE	ss200030ln	SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	LB	B	SS200030LN	B	SS200030LN	2		2

WYE START

HIGH VOLTAGE

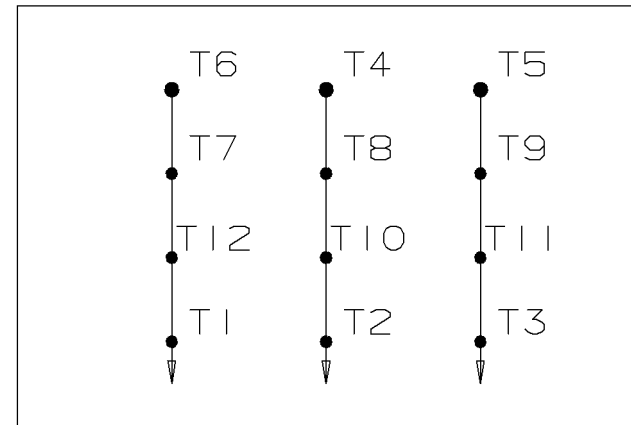
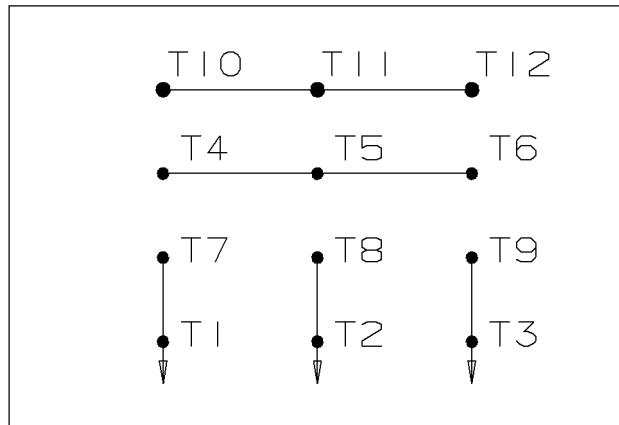
DELTA RUN



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	DRAWN BY DRS
					FINISH	CHKD BY ML	12-07-1999
					MATERIAL	APPD BY TB	12-07-1999
REV	DATE	CHANGE	NAME	PART NAME CONNECTION DIAGRAM			DRWG NO A- EE7358-LN
					PURCHASED	CADD FILE NO.	EE7358-LN



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7358-LN

CATALOG #: LM29853

OUTLINE: B-SS200030LN-1425

WINDING #: K2564229 R5 2

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&40	22.4&30.0	1800	1770&1770	286T	DP	D	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/60	230/460&230/460	72/36&97/48.5	WYE START DELTA RUN	120/80 STARTS/HOUR	F3	1.0/1.0	40

FULL LOAD EFF:	92.4&91.7	3/4 LOAD EFF:	93	1/2 LOAD EFF:	92.4	GTD. EFF	91	ELEC. TYPE	SQ CAGE IND RUN
FULL LOAD PF:	84&85	3/4 LOAD PF:	81	1/2 LOAD PF:	73.5				

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
89 LB-FT	430 / 215	160 LB-FT 180 %	225 LB-FT 253 %	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	3.3 LB-FT^2	- LB-FT^2	20 SEC.	-	400 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)	CAST IRON
311	210						

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: 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: 1/24/2018

LM29853



Data @ 460 V

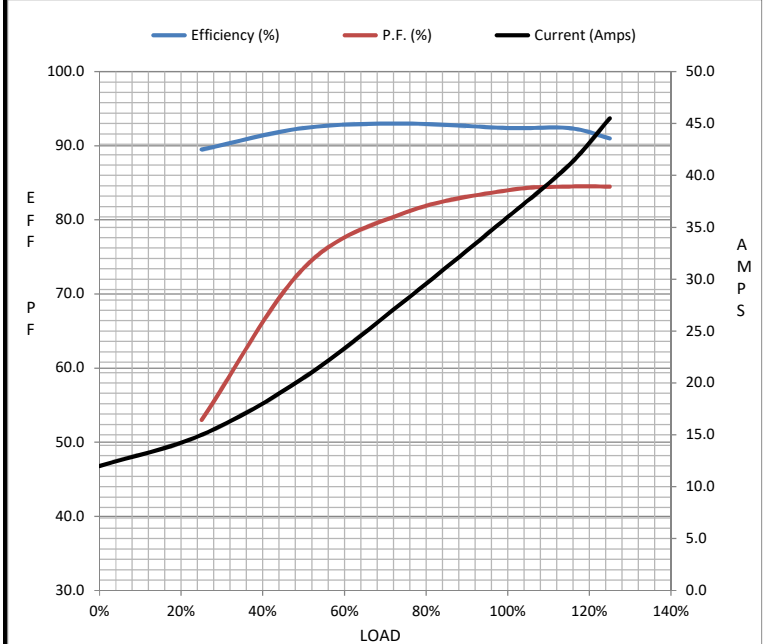
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	12.0	15.0	20.5	28.0	36.0	41.0	45.5	215
Torque (ft-lb)	0.00	22.0	44.5	66.5	89.0	102	112	160
RPM	1800	1795	1785	1780	1770	1.765	1760	0
Efficiency (%)		89.5	92.4	93.0	92.4	92.4	91.0	
P.F. (%)	6.0	53.0	73.5	81.0	84.0	84.5	84.5	39.0

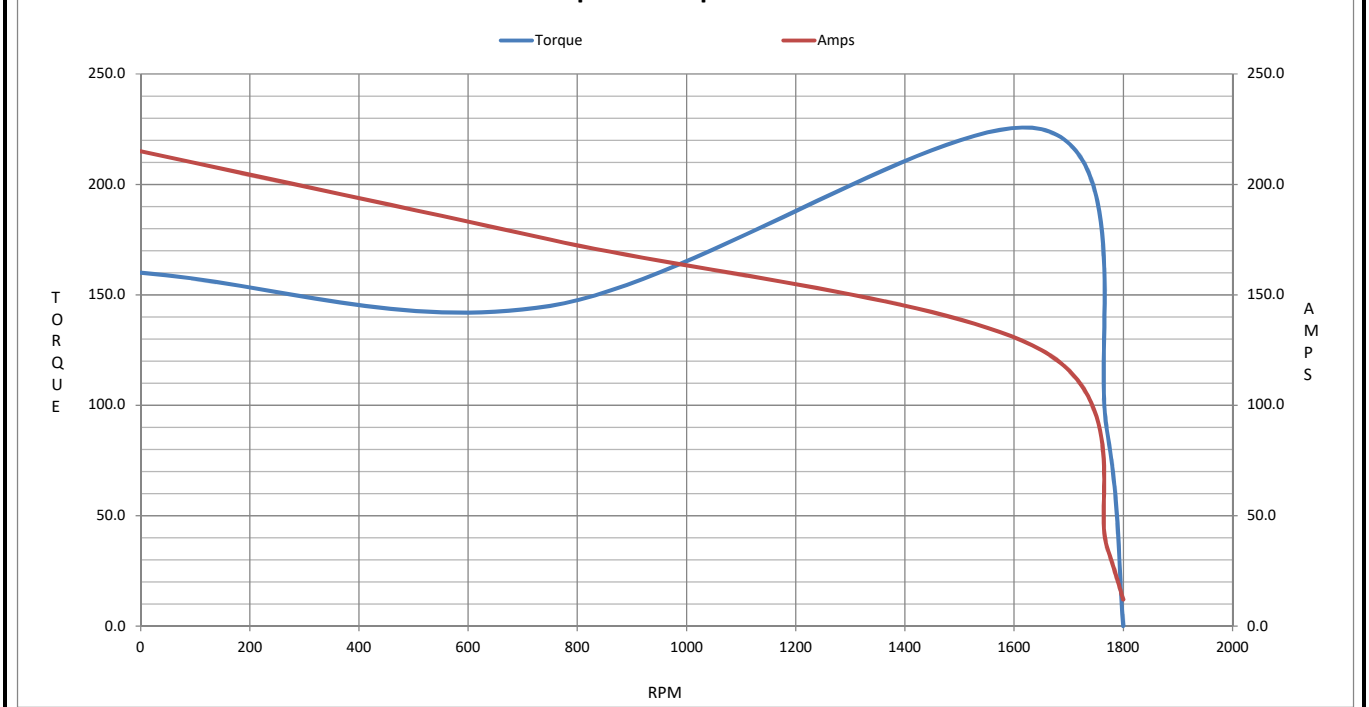
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1650	1770	1800
Current (Amps)	215	175	125	36.0	12.0
Torque (ft-lb)	160	145	225	89.0	0.00

Information Block				
HP	30.0			
Sync. RPM	1800			
Frame	286			
Enclosure	DP			
Construction	TDP			
Voltage	230/460#230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	60 MIN			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	3.3 Lb-Ft ²			
Ref Wdg	K2564229 R5			
Sound Pressure @ 1M	72 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS200030LN-1425			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1700	0.1400	0.7600	1.2390	21.2850



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 : LM29853

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

Catalog No : LM29853

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