

PRODUCT INFORMATION PACKET



Model No: LM34120
Catalog No: LM34120
40 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 324T Frame, ODP
Special Voltage Motors



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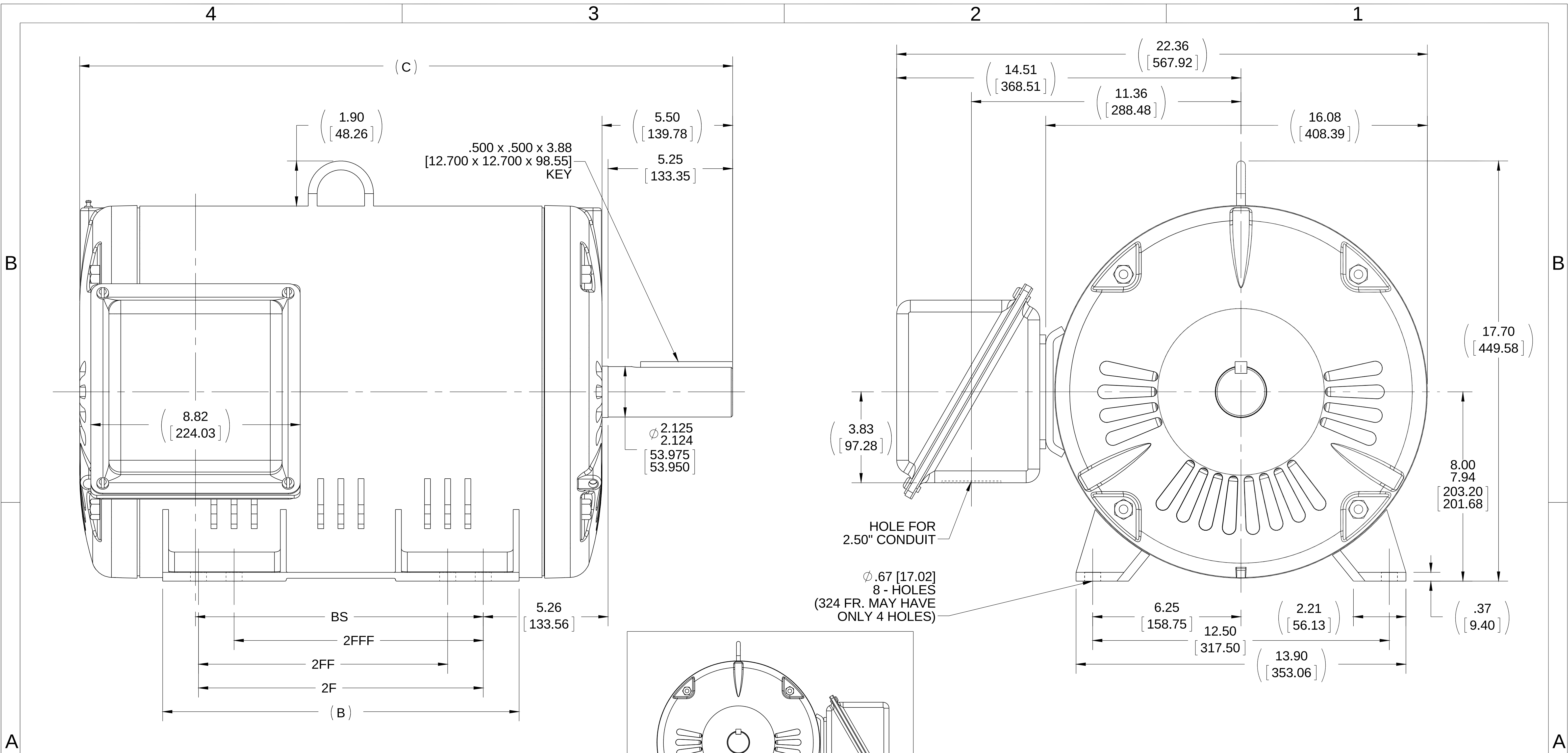
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	575 V
Current	41.5 A	Speed	1785 rpm
Service Factor	1.25	Phase	3
Efficiency	94.1 %	Power Factor	77
Duty	Continuous	Insulation Class	F
Design Code	BC	KVA Code	F
Frame	324T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6309
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

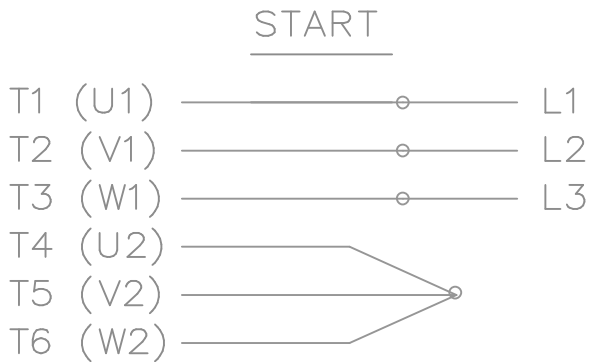
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.14 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	25.82 in
Frame Length	15.07 in	Shaft Diameter	2.125 in
Shaft Extension	5.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XG2D1SS1-1507	Connection Drawing	A-EE7340-LN

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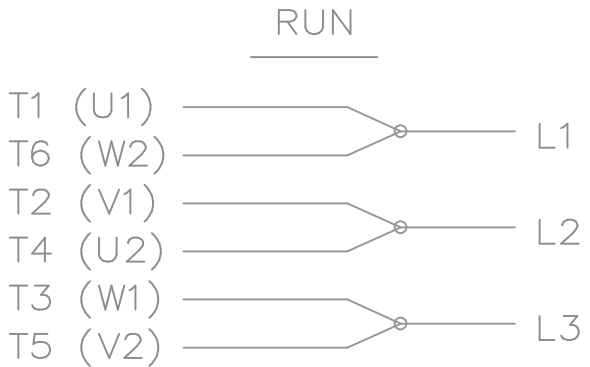
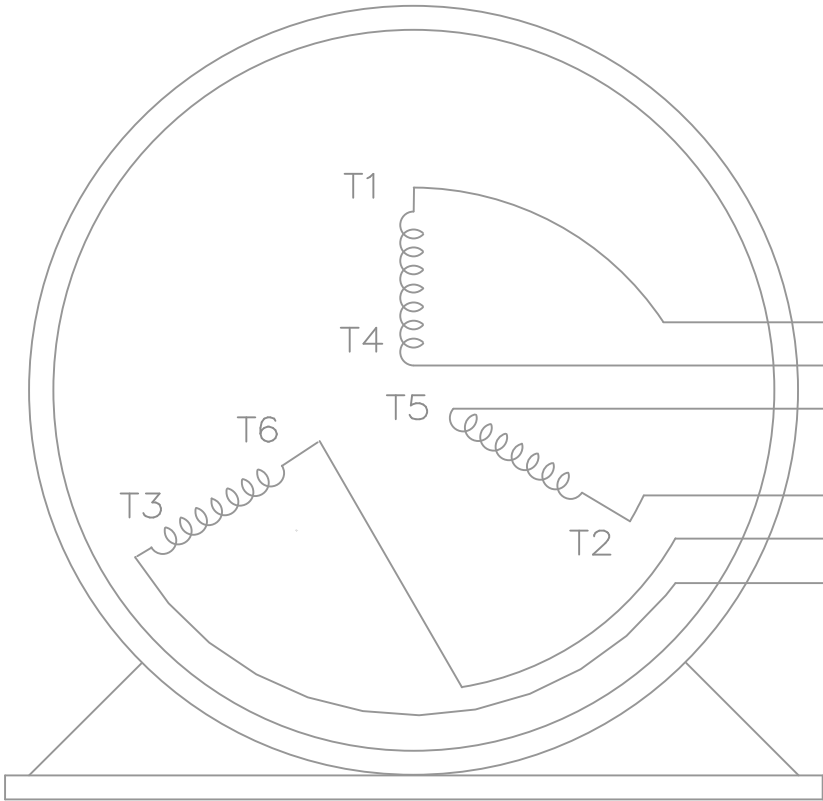


DASH	FRAME	B	C	2F	2FF	2FFF	BS
1507	324T	13.52 [343.41]	26.01 [660.65]	10.50 [266.70]	---	---	10.63 [270.00]
1657	326T	15.02 [381.51]	27.51 [698.75]	12.00 [304.80]	10.50 [266.70]	10.50 [266.70]	12.13 [308.10]

DRAWING REVISION E	REVISION BY T. VUE	DATE 09-22-2016	TOLERANCES UNLESS OTHERWISE SPECIFIED:			DRAWN BY TJB	 Regal Beloit America, Inc.		
ECO ECO-0109505	APPROVED BY T. BROWN	DATE 09-22-2016	DEC. .X .XX XXX XXXX	INCH ±0.1 ±0.03 ±0.005 ±0.0005	mm [±2.5] [±0.76] [±0.127] [±0.0127]	DATE 08-09-2001 APPROVED BY HNH DATE 08-29-2001 REFERENCE			
ECO DESCRIPTION MU124402 / NMR-0106907			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 200 INCH / 5.1 mm			THIRD ANGLE PROJECTION	DESCRIPTION OUTLINE 320T FR. - ODP - UE		
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THREE PHASE — Y START
 Δ RUN MOTOR



T1 (U1)
 T4 (U2)
 T5 (V2)
 T2 (V1)
 T6 (W2)
 T3 (W1)

T6CK
 T6BM
 T4CC
 T2DL
 T4C

NOTE:
 IEC LEAD MARKINGS ARE NOTED
 IN PARENTHESES

VIEW OF TERMINAL END

				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 3ø – WYE START DELTA RUN	SCALE 1=1			
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005		REF			
1	NEW DRAWING	BLR 10-09-1999		.XXXX	±.0005		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	DRAWING NO.	PAGE OF	REV.
			DIST WA-LB-SB				A	EE7340-LN		3



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XG2D1SS1-1507
WINDING: L3244044

CAT #: LM34120

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
40	30	1800	1785	324T	DP	TDR	F	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	41.5	VYE START DELTA RU	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.0	GTD EFF	ELECT. TYPE
F.L. PF	77.0	3/4 LD PF	71.0	1/2 LD PF	59.5	93.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
118 LB-FT	230	245 LB-FT 208%	265 LB-FT 225%	30

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA	0.00 LB-FT²	0 LB-FT²	0 SEC.	0	0 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	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)	ROLLED STEEL
6311 6309						

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
0.144	0.078	0.831	1.385	17.282	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE
		NONE PPR

DATE: 1/24/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
	UL: V-INS, CONST UL REC	

Data Sheet

Date: 1/24/2018

LM34120



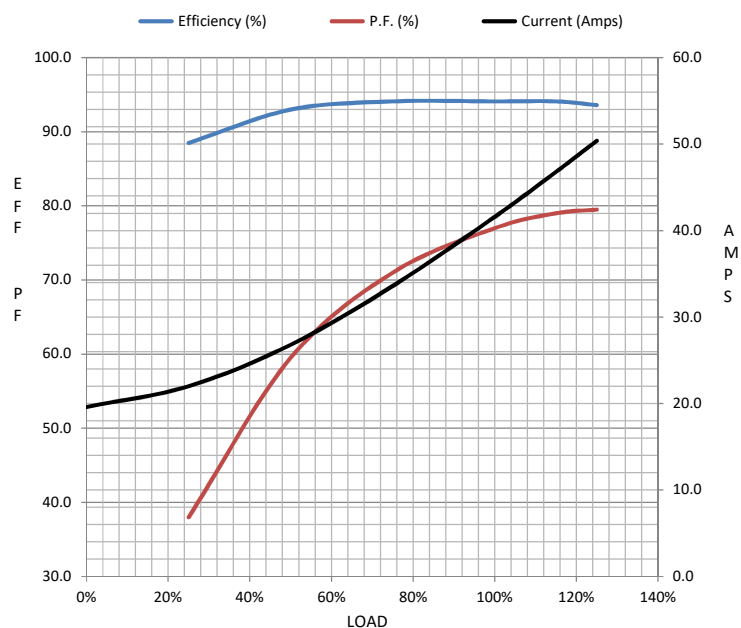
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	19.6	22.0	26.8	33.6	41.6	46.8	50.4	230	
Torque (ft-lb)	0.00	29.5	58.5	88.0	118	136	148	245	
RPM	1800	1795	1792	1788	1785	1780	1780	0	
Efficiency (%)		88.5	93.0	94.1	94.1	94.1	93.6		
P.F. (%)	3.0	38.0	59.5	71.0	77.0	79.0	79.5	38.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block			
Speed (RPM)	0	900	17	1785	1800	HP	40.0		
Current (Amps)	230	207	126	41.6	19.6	Sync. RPM	1800		
Torque (ft-lb)	245	208	265	118	0.00	Frame	324		



Frame	324			
Enclosure	DP			
Construction	TDR			
Voltage	575		V	
Frequency	60		Hz	
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	30		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	0.00		Lb-Ft²	
Ref Wdg	L3244044	NONE		
Sound Pressure @ 1M	75		dBA	
VFD Rating	NONE			
Outline Dwg	XG2D1SS1-1507			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1440	0.0780	0.8310	1.3850	17.2820

Speed - Torque Curve

