

PRODUCT INFORMATION PACKET



Model No: LM14535

Catalog No: LM14535

General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM,
324TC Frame, DP



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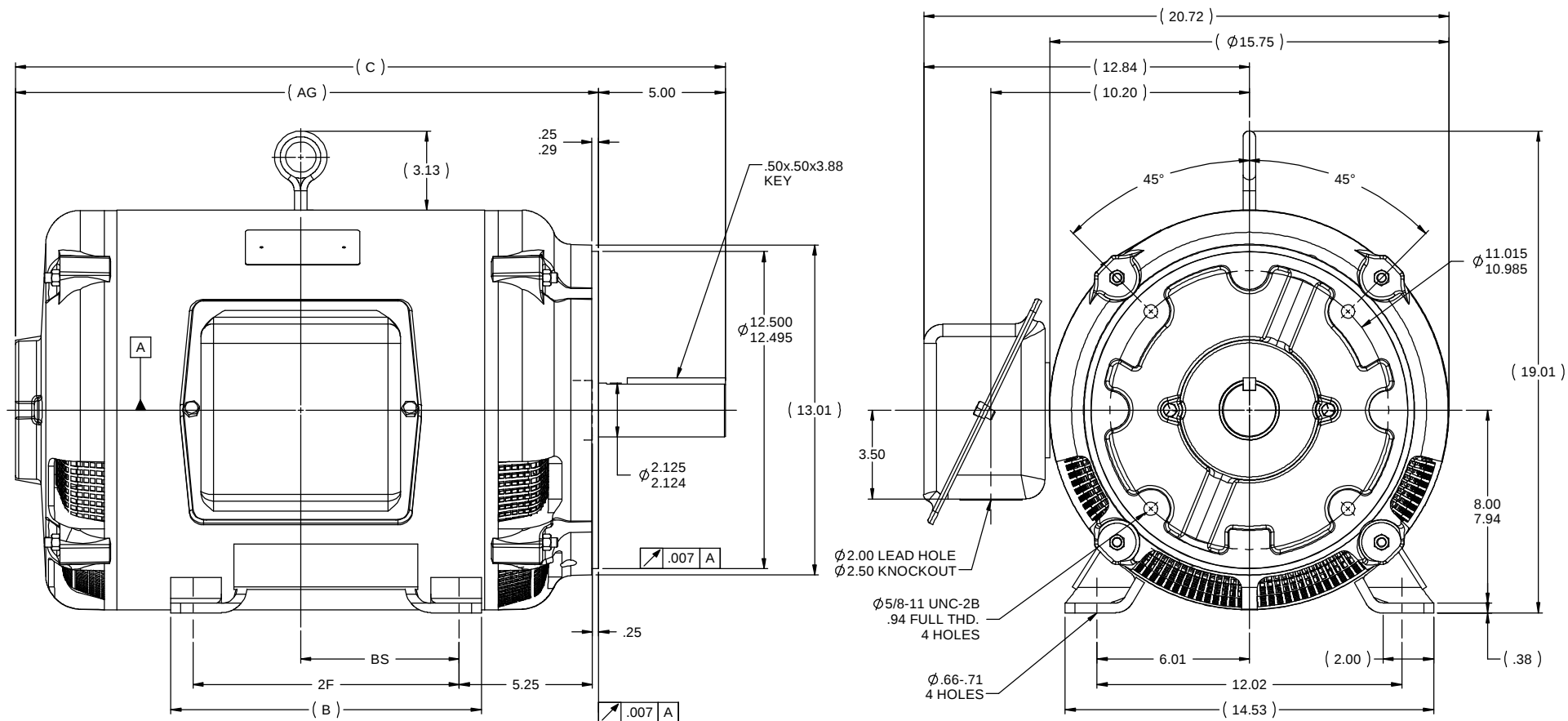


Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	1182 & 982 rpm	Service Factor	1.25 & 1.15
Frame	324TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	65/32.5 & 64/32 A	Power Factor	78
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
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	6	Rotation	Reversible
Resistance Main	.255 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	28.00 in
Frame Length	14.50 in	Shaft Diameter	2.125 in
Shaft Extension	5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7358-LN	Outline Drawing	SS29240LN-1450



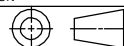
NOTES:

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

DASH	FRAME	B	C	AG	BS	2F	MGT
1250	324TC	12.25	26.00	21.00	5.25	10.50	F1 OR F2
1400	326TC	13.75	27.50	22.50	6.00	12.00	F1 OR F2
1450	324TC	12.25	28.00	23.00	6.25	10.50	F1 ONLY
1500	326TC	13.75	28.50	23.50	6.50	12.00	F1 ONLY

TOLERANCES UNLESS SPECIFIED				Lincoln MOTORS				DRAWN RFH 06/24/2011			
DEC INCHES								CHK BW 06/24/2011			
X ±.1								APPR DR 06/24/2011			
XX ±.03				TITLE OUTLINE - C'FACE				SCALE 1:4			
XXX ±.005				320TS FR. - BB - TS - DR. PR.				REF			
XXXX ±.0005				MATL				FMF MU101396			
±7'30"				FINISH				PAGE OF			
RFP				PREV				SIZE			
NETWORK FILE NAME				SS29240LN				DRAWING NO			
								B			
								SS29240LN			
								REV			
								1			

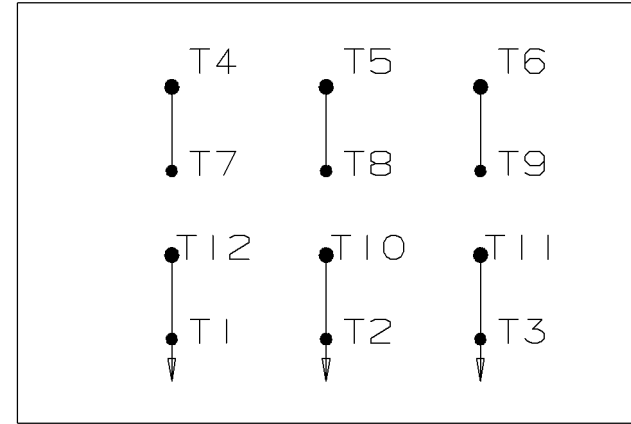
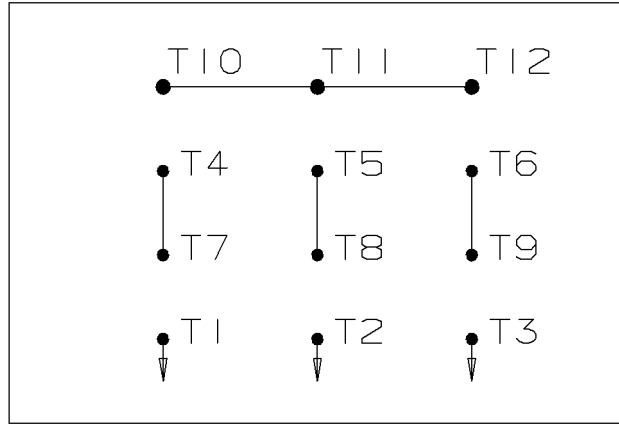
THIRD ANGLE PROJECTION



WYE START

HIGH VOLTAGE

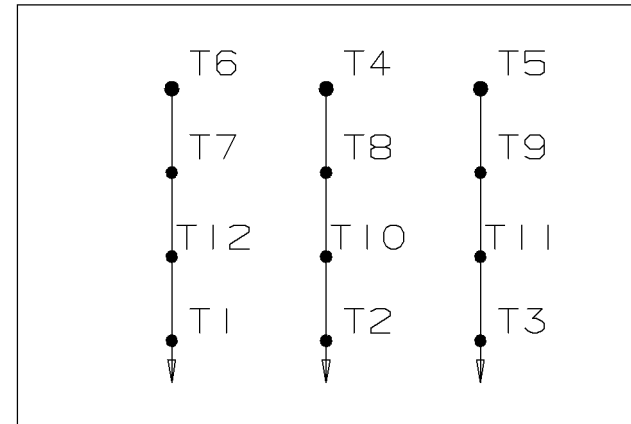
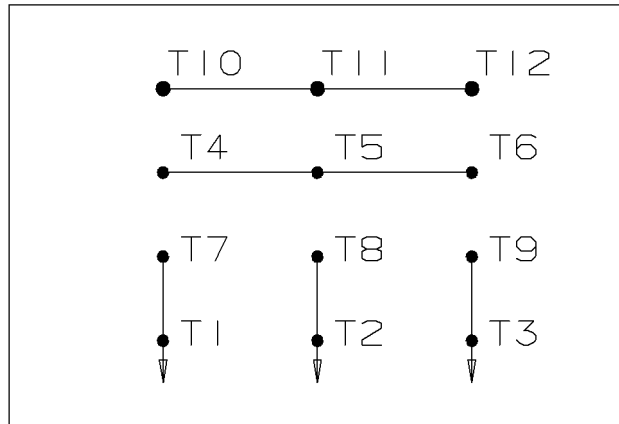
DELTA RUN



WYE START

LOW VOLTAGE

DELTA RUN



4/2 CKTY Δ

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



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7358-LN

CAT #: LM14535

OUTLINE: B-SS29240LN-1450

WINDING: 324680

NONE 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
25	18.7	1200	1182	324TC	DP	TDR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	65/32.5&64/32	HYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	93.0	3/4 LD EFF	93.0	1/2 LD EFF	91.7	GTD EFF	ELECT. TYPE
F.L. PF	78.0	3/4 LD PF	73.0	1/2 LD PF	62.0	92.4	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
112 LB-FT	182	165 LB-FT 147%	270 LB-FT 241%	45

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
69 dBA	78 dBA		8.5 LB-FT²	425 LB-FT²	20 SEC.	2	540 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL						
6312 6311	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	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
0.176	0.136	1.046	1.305	18.115	0.150	ODE

* N O T E S *			INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE NONE PPR
DATE: 9/10/2018			BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ:
			UL: V-INS, CONST UL REC

Data Sheet

Date: 9/10/2018

LM14535



Data @ 460 V

Motor Load Data

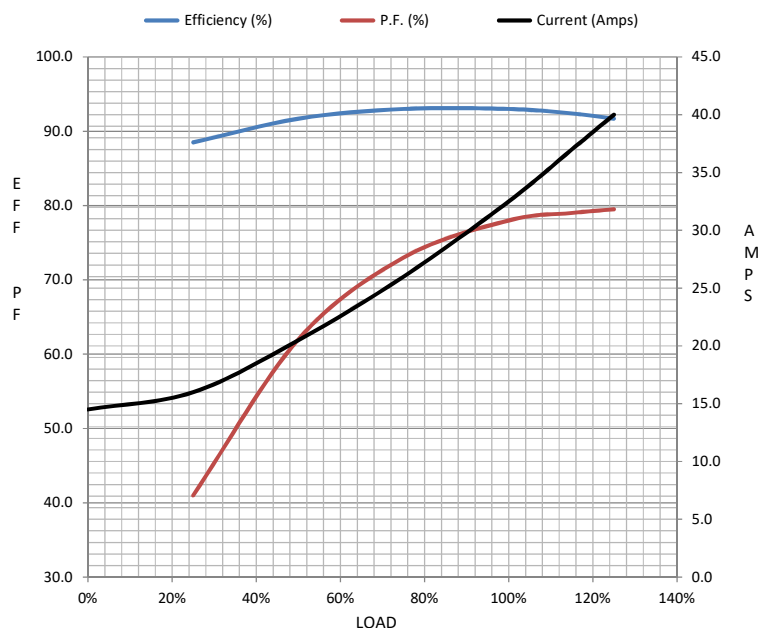
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	14.5	16.0	20.5	26.0	32.5	37.0	40.0	182	
Torque (ft-lb)	0.00	27.5	55.0	83.5	112	128	140	165	
RPM	1200	1195	1190	1188	1182	1,178	1175	0	
Efficiency (%)		88.5	91.7	93.0	93.0	92.4	91.7		
P.F. (%)	4.5	41.0	62.0	73.0	78.0	79.0	79.5	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1100	1182	1200
Current (Amps)	182	168	110	32.5	14.5
Torque (ft-lb)	165	190	270	112	0.00

Information Block

HP	25.0			
Sync. RPM	1200			
Frame	324			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	45	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	8.5	Lb-Ft²		
Ref Wdg	324680	NONE		
Sound Pressure @ 1M	69	dBA		
VFD Rating	NONE			
Outline Dwg	B-SS29240LN-1450			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1760	0.1360	1.0460	1.3050	18.1150



Speed - Torque Curve

