

PRODUCT INFORMATION PACKET



Model No: LM80120

Catalog No: LM80120

Fire Pump Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 326TS Frame,
DP



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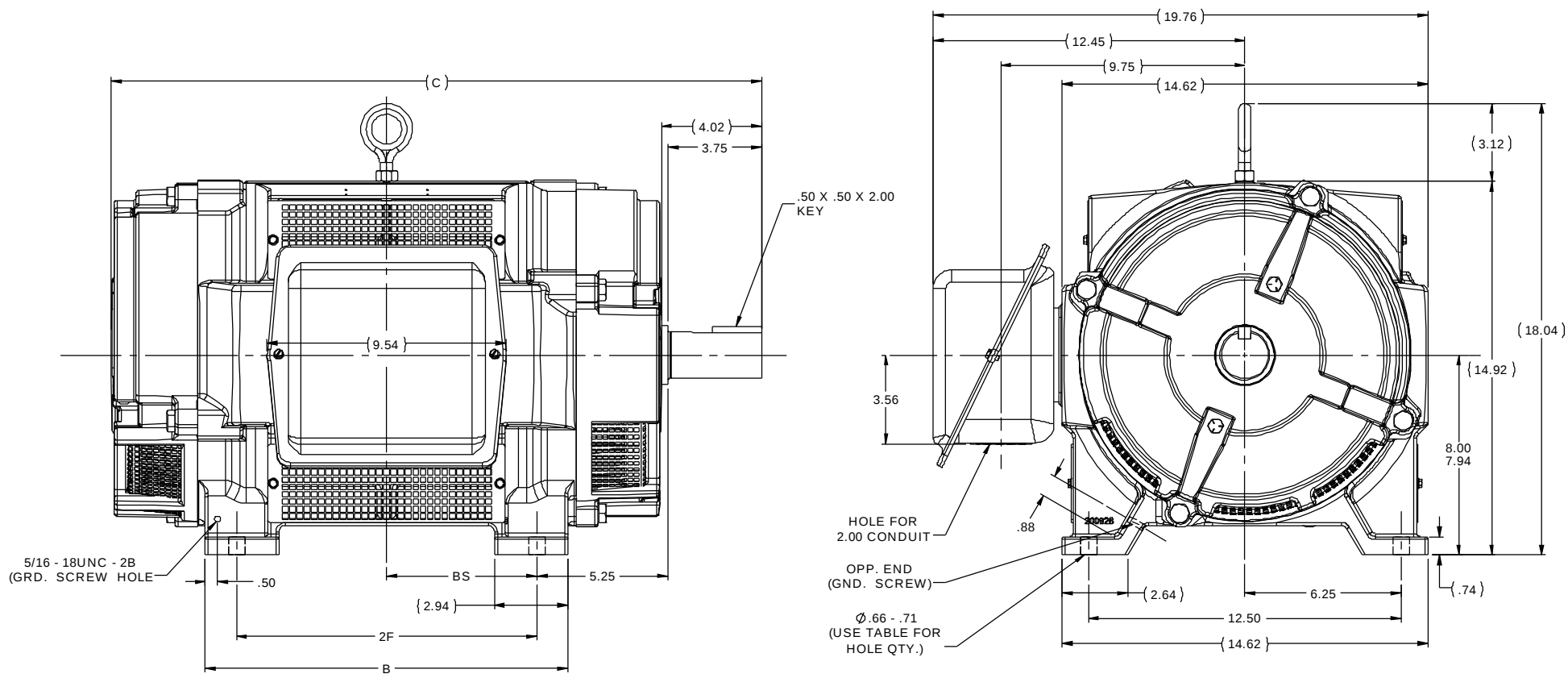


Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 190/380 V
Speed	1770 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	326TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	123/61.5 & 120/60 A	Power Factor	81.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	No	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.125 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	26.00 in
Frame Length	15.12 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS312558LN-1512	Connection Drawing	A-EE7358-LN



NOTES:

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

DASH	FRAME	B	C	AG	2F	2FF	BS	FOOT HOLE QTY.
1362	324TS	13.00	24.50	--	10.50	--	5.25	4
1512	326TS	14.50	26.00	--	12.00	--	6.00	4

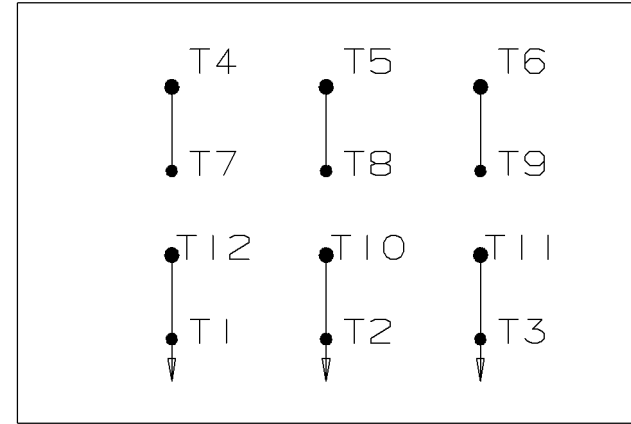
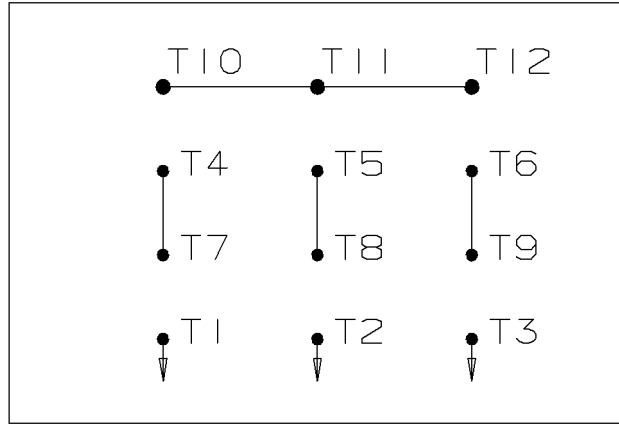
				TOLERANCES UNLESS SPECIFIED				Lincoln Motors				DRAWN TV 10-02-2013
				DEC INCHES								CHK TXW 10-02-2013
				X ±.1								APPR TB 10-02-2013
				XX ±.03				TITLE OUTLINE - DR.PR. - CAST IRON				SCALE 1:4
				XXX ±.005				320TS FR. - BB - TS - D.E.V.				REF SS200079LN
				XXXX ±.0005				MAT'L				FMF MU98668
				CHK ANG ±7°30'				FINISH				PAGE OF
				RFP 10-02-2013				PREV				SIZE B
				NETWORK FILE NAME SS312558LN				DRAWING NO SS312558LN				REV



WYE START

HIGH VOLTAGE

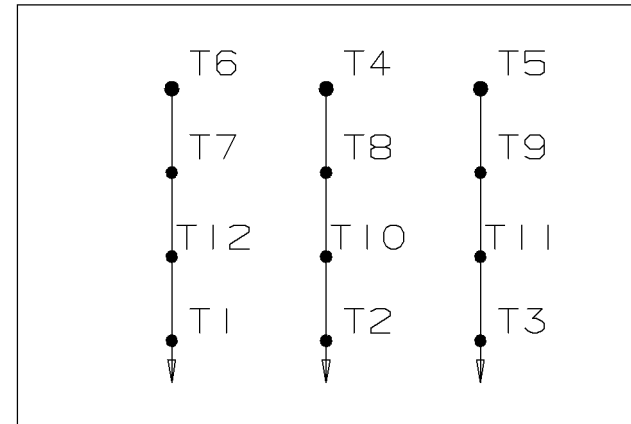
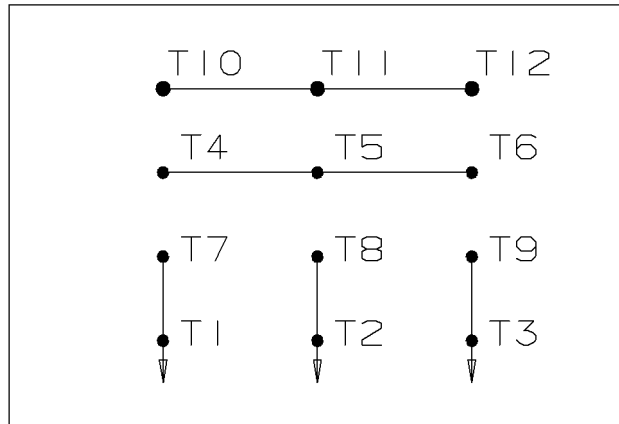
DELTA RUN



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

REV	DATE	CHANGE	NAME
1	12-07-1999	NEW DRAWING	DRS



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7358-LN
OUTLINE: B-SS312558LN-1512
WINDING: K2864249

CAT #: LM80120

NONE 10

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
50	37	1800	1770	326TS	DP	TDP	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	123/61.5&120/60	PWS(LV ONLY) & YDRU	CONT	F	1.15	40	3300

F.L. EFF	93.0	3/4 LD EFF	93.6	1/2 LD EFF	93.6	GTD EFF		ELECT. TYPE	
F.L. PF	81.5	3/4 LD PF	77.0	1/2 LD PF	67.0	92.4		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
148 LB-FT	350	265 LB-FT 179%	375 LB-FT 253%	45	

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA		5.4 LB-FT²	250 LB-FT²	20 SEC.	2	525 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	WATTS AVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312 6311						

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
0.079	0.074	0.425	0.641	10.886	0.150	ODE

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

DATE: 8/30/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
	UL: NONE	

Data Sheet

Date: 8/30/2018

LM80120



Data @ 460 V

Motor Load Data

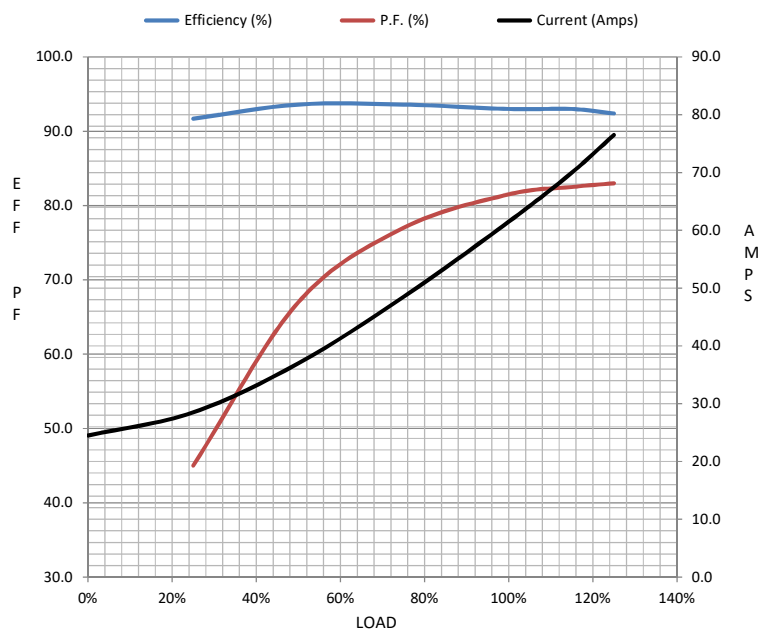
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.5	28.5	37.0	48.5	61.5	70.0	76.5	350	
Torque (ft-lb)	0.00	36.5	73.5	112	148	171	186	265	
RPM	1800	1792	1785	1778	1770	1,765	1760	0	
Efficiency (%)		91.7	93.6	93.6	93.0	93.0	92.4		
P.F. (%)	3.5	45.0	67.0	77.0	81.5	82.5	83.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1630	1770	1800
Current (Amps)	350	300	225	61.5	24.5
Torque (ft-lb)	265	240	375	148	0.00

Information Block

HP	50.0			
Sync. RPM	1800			
Frame	326			
Enclosure	DP			
Construction	TDP			
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	5.4	Lb-Ft²		
Ref Wdg	K2864249	NONE		
Sound Pressure @ 1M	75	dBA		
VFD Rating	NONE			
Outline Dwg	B-SS312558LN-1512			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0790	0.0740	0.4250	0.6410	10.8860



Speed - Torque Curve

