

PRODUCT INFORMATION PACKET



Model No: LM80118

Catalog No: LM80118

Fire Pump Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 324TS Frame,
DP



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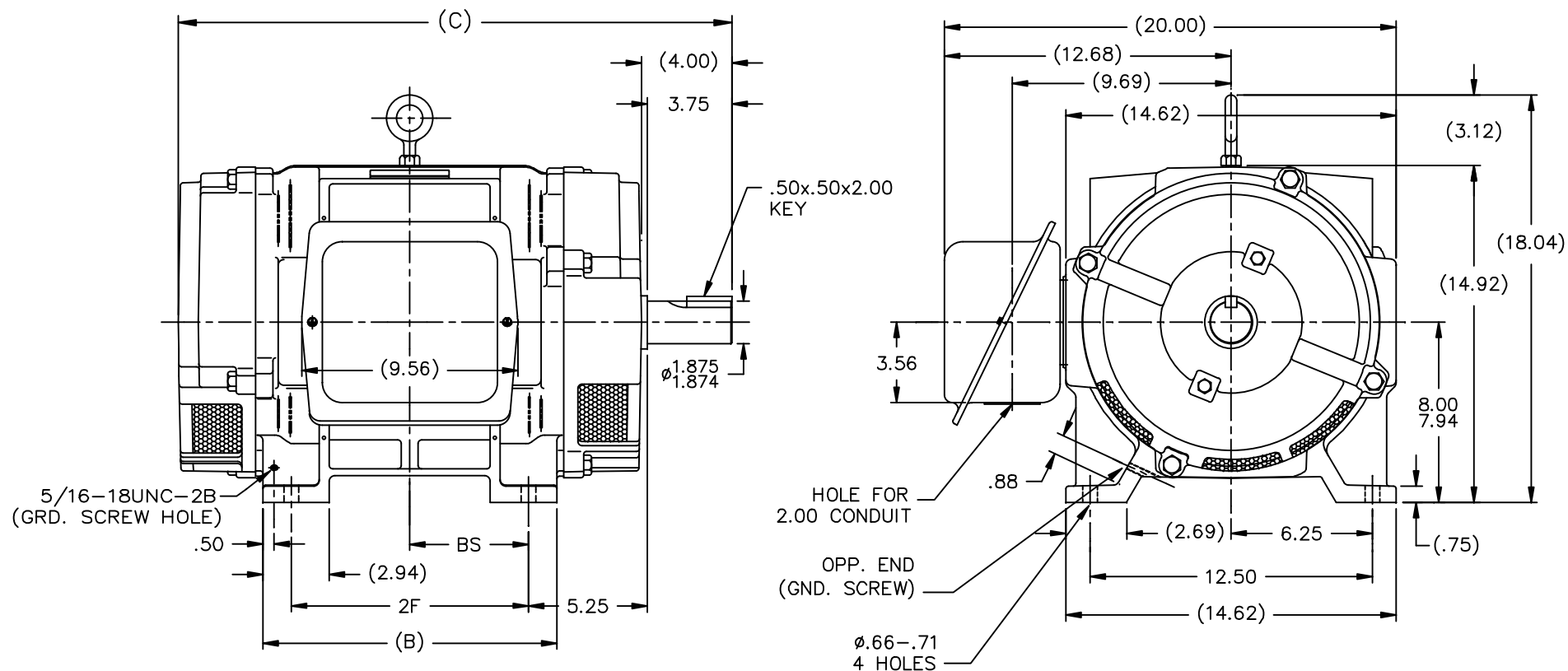


Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 190/380 V
Speed	3555 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	324TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	92.4 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	117/58.5 & 113/56.5 A	Power Factor	86.5
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	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.19 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	24.50 in
Frame Length	13.62 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS200079LN-1362	Connection Drawing	A-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

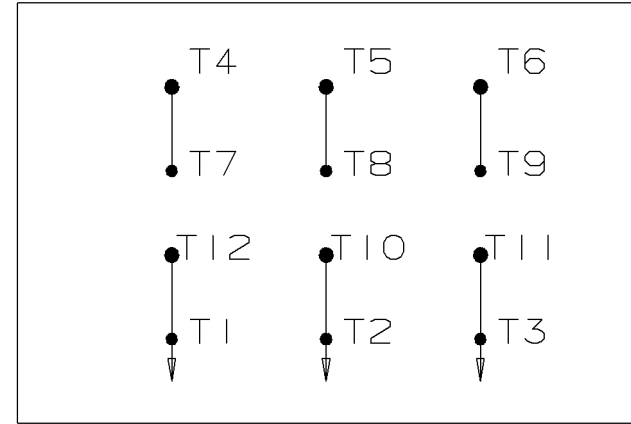
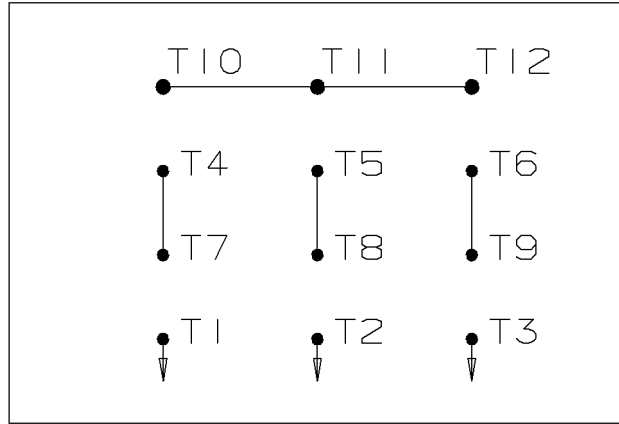
DASH	FRAME	B	C	2F	BS
1362	324TS	13.00	24.50	10.50	5.25
1512	326TS	14.50	26.00	12.00	6.00

		TOLERANCES UNLESS SPECIFIED		Lincoln Motors		DRAWN CTO 10-17-2000	
		DEC.	INCHES			CHK	
		.X	±.1			APPD	
		.XX	±.03			SCALE	1=4.5
2	ADDED SCREENS (MU106892)	DR	.XXX	±.005	TITLE OUTLINE -DR.PR. -CAST IRON		REF
1	NEW DRAWING	CHK	.XXXX	±.0005	320TS FR. -BB -TS -D.E.V.		FMF
NO.		REVISION		BY & DATE		FINISH	
		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 ss200079	
				DIST LB		SIZE B	
						DRAWING NO. PAGE 1 OF 1	
						SS200079LN	
						REV. 2	

WYE START

HIGH VOLTAGE

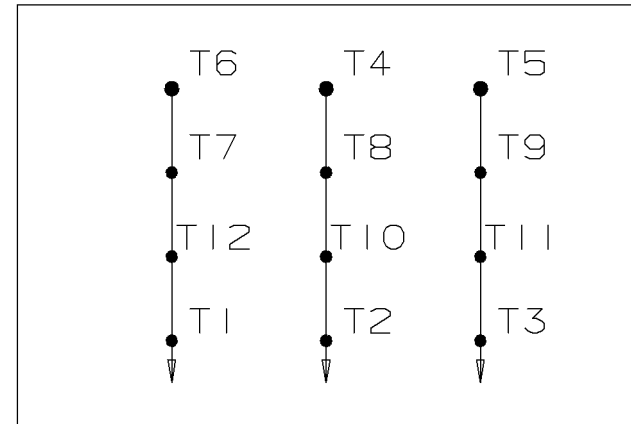
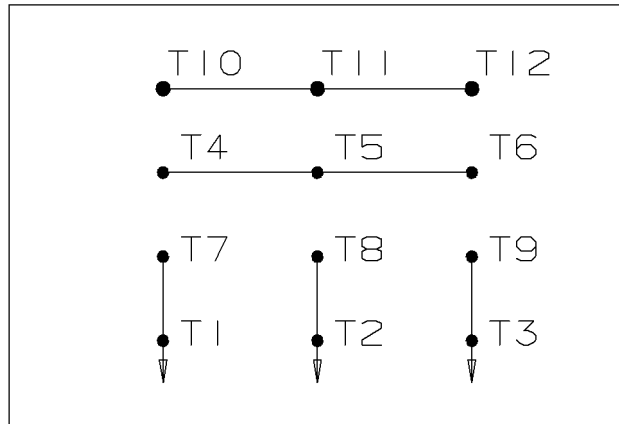
DELTA RUN



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 12-07-1999
				FINISH		CHKD BY ML 12-07-1999		
1		12-07-1999	NEW DRAWING	DRS		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 #: LM80118

OUTLINE: B-SS200079LN-1362

WINDING #: K286294 11

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37.0&30.0	3600	3555&2960	324TS	DP	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	117/58,5&113/56,5	WYE START DELTA RUN	CONTINUOUS	F3	1.15/1.15	40

FULL LOAD EFF:	92.4&91.7	3/4 LOAD EFF:	92.4	1/2 LOAD EFF:	91.7	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	86.5&87	3/4 LOAD PF:	84	1/2 LOAD PF:	77	91		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	700 / 350	100 LB-FT 135 %	190 LB-FT 257 %	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
82 dB	92 dB	2.7 LB-FT^2	34 LB-FT^2	15 SEC.	2	375 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	RED (ENAMEL)

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

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

LM80118



Data @ 460 V

Motor Load Data

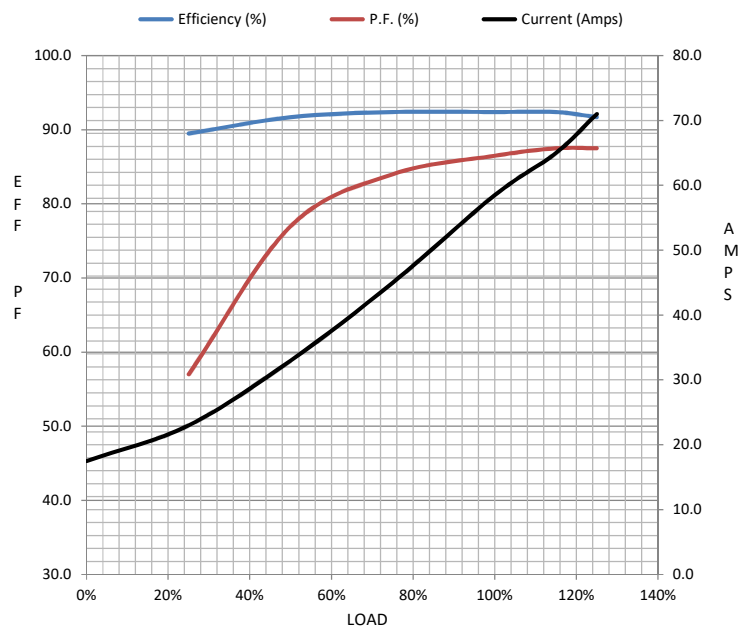
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	17.5	23.0	33.0	45.0	58.5	65.0	71.0	350	
Torque (ft-lb)	0.00	18.5	36.5	55.5	74.0	85.5	93.0	100	
RPM	3600	3590	3575	3565	3555	3,540	3535	0	
Efficiency (%)		89.5	91.7	92.4	92.4	92.4	91.7		
P.F. (%)	6.5	57.0	77.0	84.0	86.5	87.5	87.5	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3330	3555	3600
Current (Amps)	350	300	225	58.5	17.5
Torque (ft-lb)	100	88.0	190	74.0	0.00

Information Block

HP	50.0			
Sync. RPM	3600			
Frame	324			
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	35	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	2.70	Lb-Ft²		
Ref Wdg	K286294	NONE		
Sound Pressure @ 1M	82	dBa		
VFD Rating	NONE			
Outline Dwg	B-SS200079LN-1362			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1080	0.0660	0.5150	0.3840	15.7900



Speed - Torque Curve

