

PRODUCT INFORMATION PACKET



Model No: LM80079
Catalog No: LM80079

Fire Pump Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 286TS Frame,
TEFC



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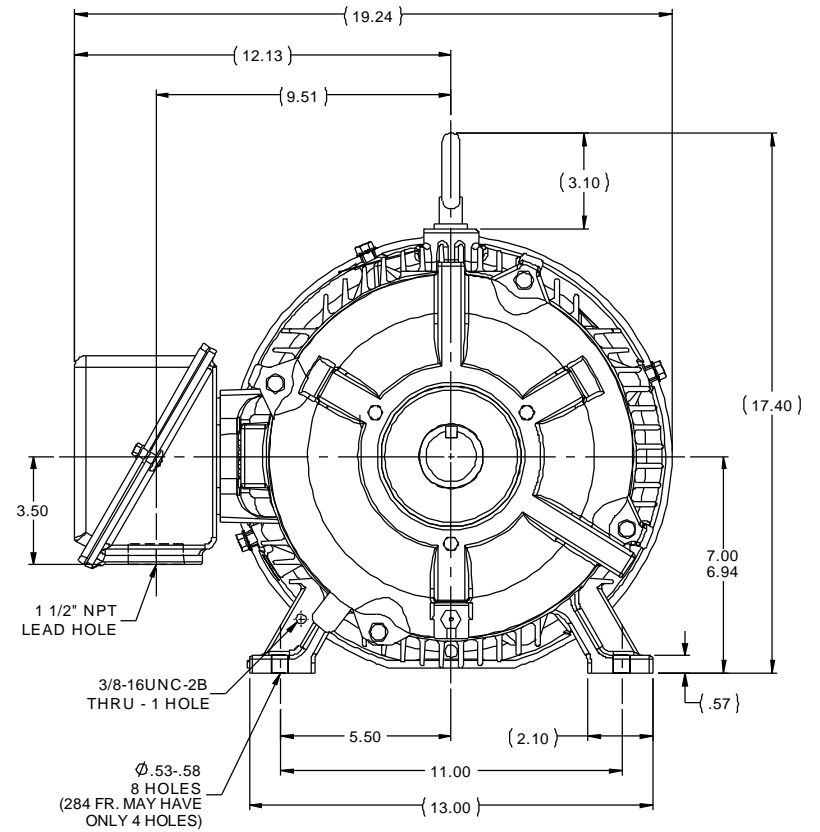
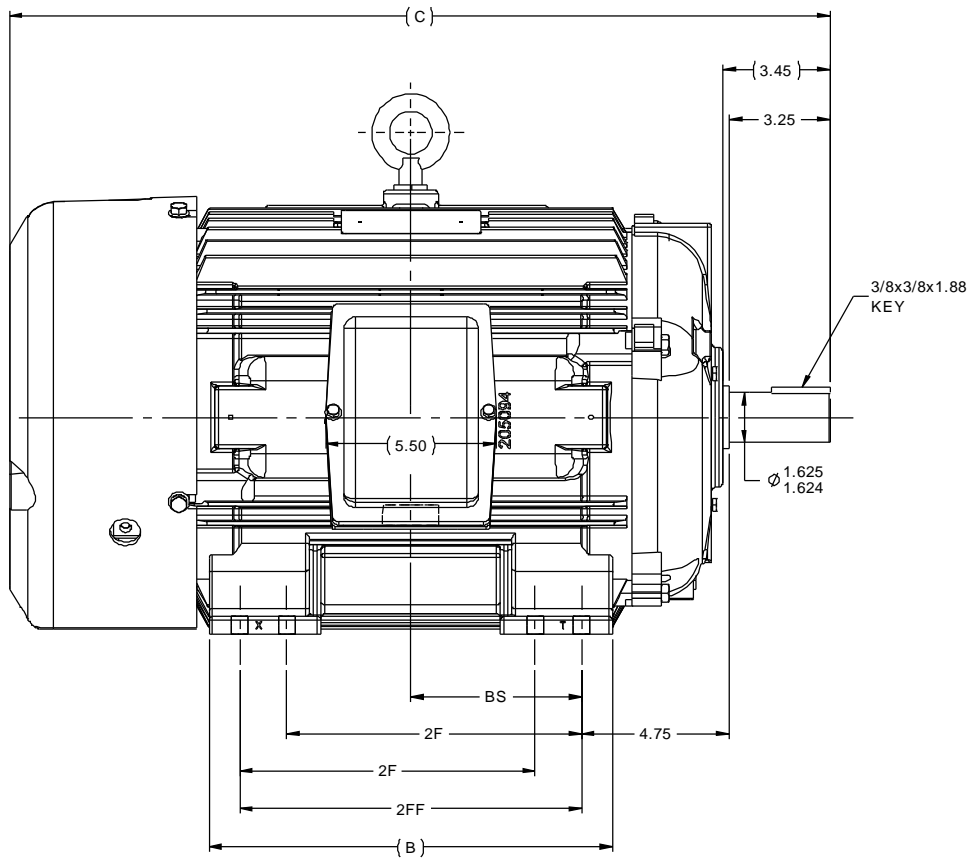


Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3518 & 2915 rpm	Service Factor	1.15 & 1.15
Frame	286TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	70/35 & 71/35.5 A	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	No	CSA	Y
CE	Y	IP Code	43
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	2	Rotation	Reversible
Resistance Main	.28 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	26.43 in
Frame Length	14.26 in	Shaft Diameter	1.625 in
Shaft Extension	3.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS311235LN-1425	Connection Drawing	A-EE7358-LN



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. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

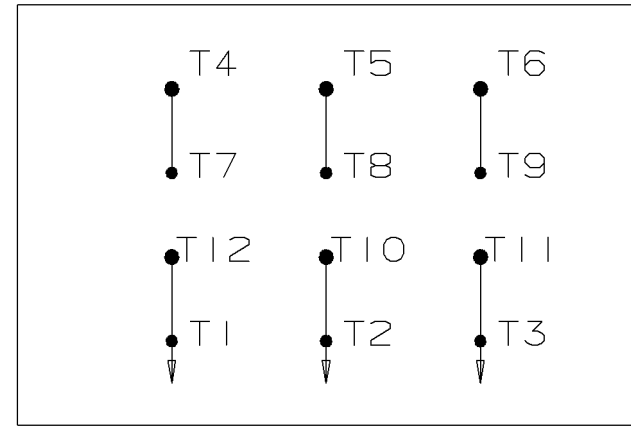
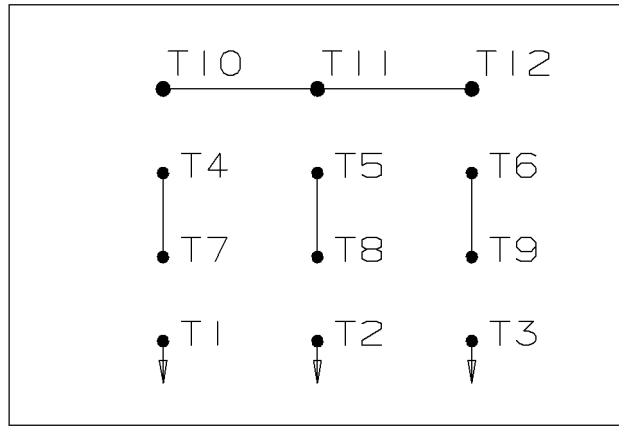
1275	284TS	24.93	11.50	9.50	---	4.75
1425	284/286TS	26.43	13.00	9.50	11.00	5.50
DASH	FRAME	C	B	2F	2FF	BS

		TOLERANCES UNLESS SPECIFIED				DRAWN TJW 07-19-13	
		DEC	INCHES			CHK DR 07-19-13	
		X	±.1			APPR TB 7-19-13	
		XX	±.03	TITLE OUTLINE - TEFC - TFPA		SCALE 1:4	
		XXX	±.005	280TS FR. - STD. - 11.00 LAM		REF	
		XXXX	±.0005	MATL		FMF MU98520	
		CHK	ANG ±7'30"	FINISH		PAGE OF	
NO		REVISION		BY & DATE		RFP	
THIRD ANGLE PROJECTION				NETWORK FILE NAME SS311235LN		SIZE B	DRAWING NO SS311235LN
				REV		REV	

WYE START

HIGH VOLTAGE

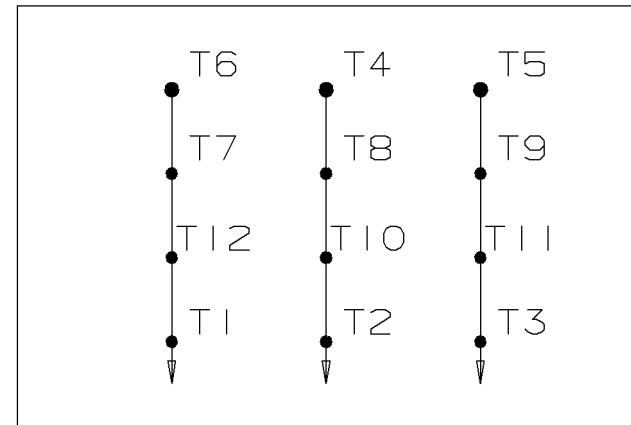
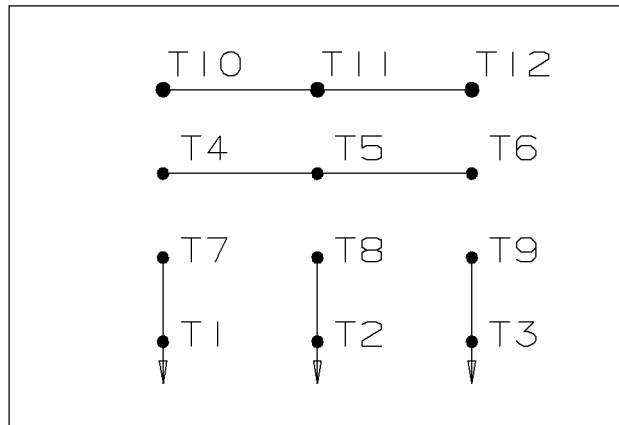
DELTA RUN



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
1	12-07-1999	NEW DRAWING	DRS	PART NAME CONNECTION DIAGRAM			DRWG NO A-EE7358-LN
REV	DATE	CHANGE	NAME	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
OUTLINE: B-SS311235LN-1425
WINDING: K2562198

CAT #: LM80079

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	3600	3518	286TS	TEFC	TFP	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	70/35&71/35.5	PWS(LV ONLY) & YDRU	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.7	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE
F.L. PF	88.5	3/4 LD PF	86.0	1/2 LD PF	80.0	89.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
44.8 LB-FT	205	80.0 LB-FT 179%	110 LB-FT 246%	75

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA		1.65 LB-FT²	0 LB-FT²	20 SEC.	0	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	WATTSAVER

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6311	6210						

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
0.199	0.18	0.766	0.776	27.198	0.150	ODE

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

DATE: 8/31/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: NONE		

Data Sheet

Date: 8/31/2018

LM80079



Data @ **460 V**

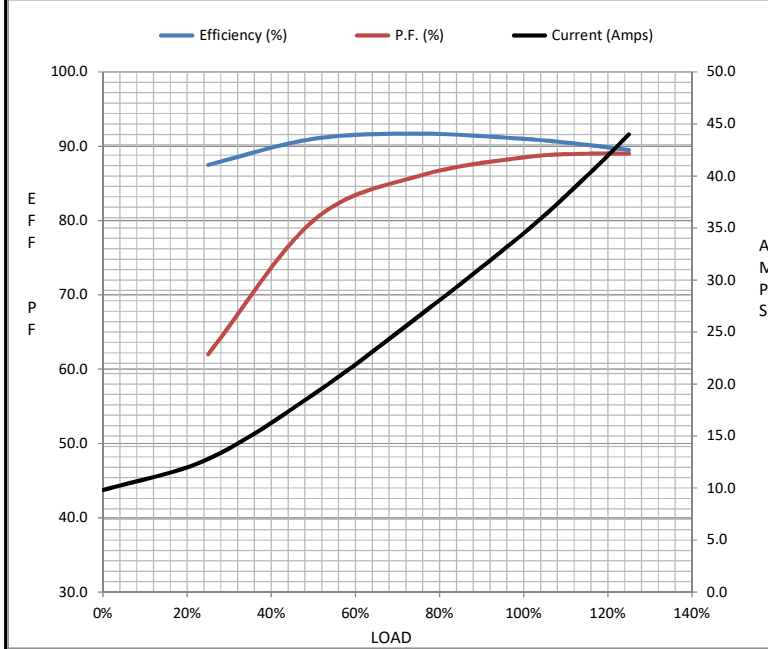
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	9.8	12.8	19.0	26.5	34.5	40.0	44.0	205
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.8	51.8	56.5	80.0
RPM	3600	3580	3560	3540	3518	3,505	3490	0
Efficiency (%)		87.5	91.0	91.7	91.0	90.2	89.5	
P.F. (%)	9.0	62.0	80.0	86.0	88.5	89.0	89.0	36.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1200	3150	3518	3600
Current (Amps)	205	190	125	34.5	9.8
Torque (ft-lb)	80.0	70.0	110	44.8	0.00

Information Block				
HP	30.0			
Sync. RPM	3600			
Frame	286			
Enclosure	TEFC			
Construction	TFP			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.65 Lb-Ft ²			
Ref Wdg	K2562198 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS311235LN-1425			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1990	0.1800	0.7660	0.7760	27.1980



Speed - Torque Curve

