

PRODUCT INFORMATION PACKET



Model No: LM80081

Catalog No: LM80081

Fire Pump Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 286T Frame,
TEFC



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



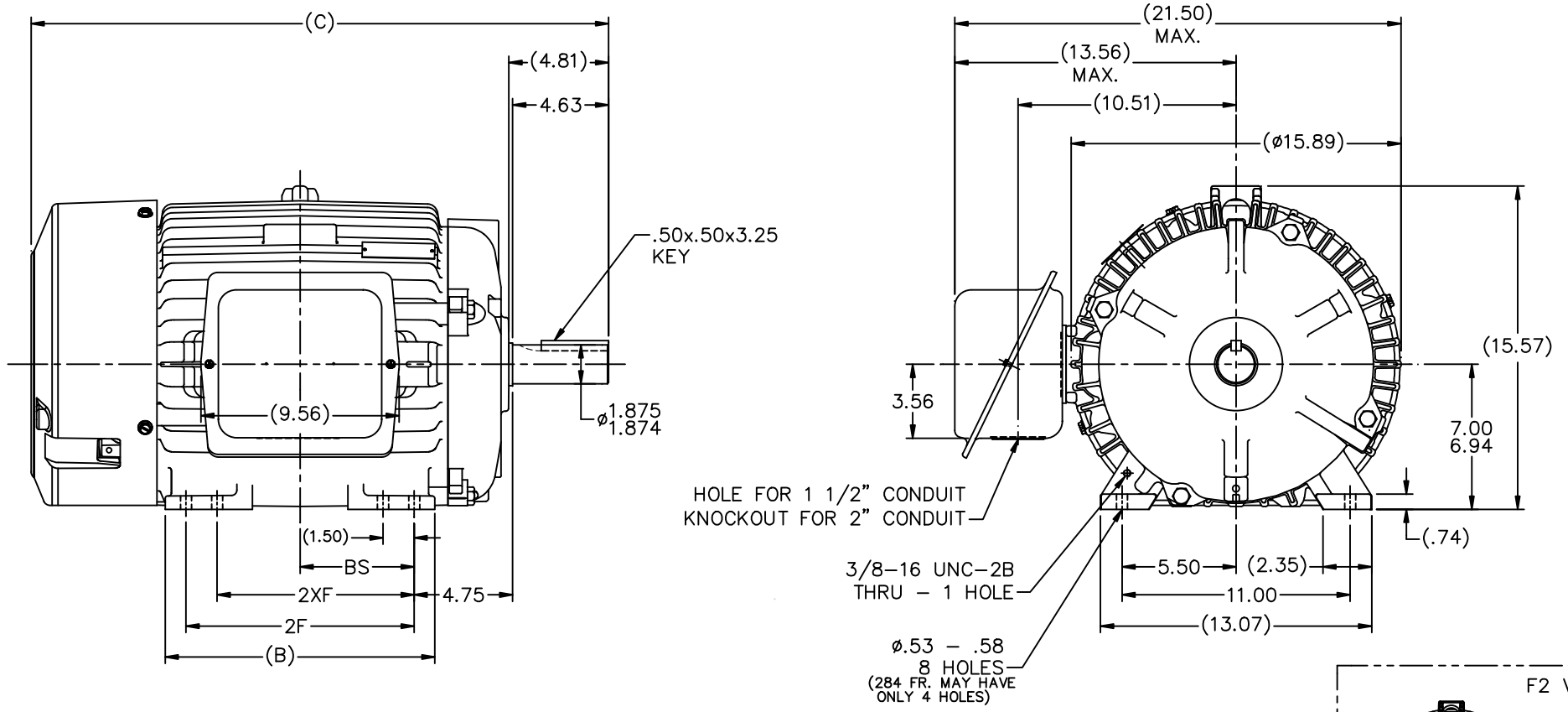


Nameplate Specifications

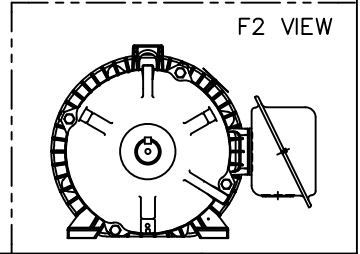
Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	1768 & 1468 rpm	Service Factor	1.15 & 1.15
Frame	286T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.4 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	72/36 & 72/36 A	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	311	Opp Drive End Bearing Size	210
UL	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.205 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	27.84 in
Frame Length	14.26 in	Shaft Diameter	1.875 in
Shaft Extension	4.63 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS311060LN-1425	Connection Drawing	A-EE7358-LN



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



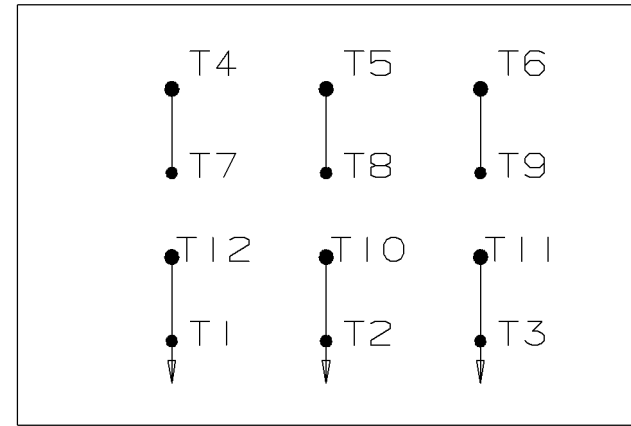
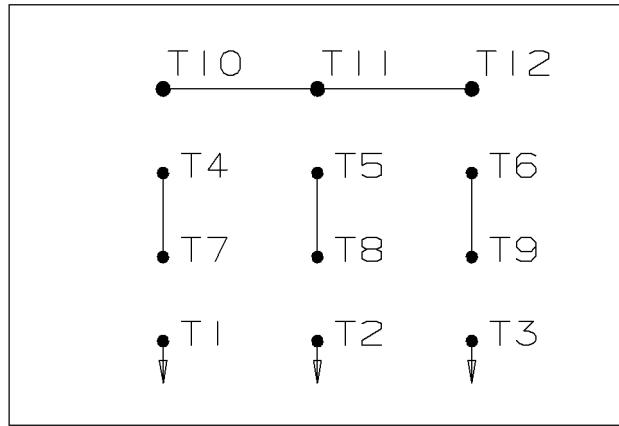
DASH	FRAME	B	C	2F	2XF	BS
1275	284T	12.50	26.34	9.50		4.75
1425	284/6T	13.00	27.84	11.00	9.50	5.50

		TOLERANCES UNLESS SPECIFIED		Lincoln MOTOR		DRAWN DRS 10-18-2000	
		DEC.	INCHES			CHK	ML 10-24-2000
4	ADDED F2 VIEW	RWR 06-06-2007	ML .X	±.1		APPD	SW 10-24-2000
3	ADDED NOTE #3	RJW 05-22-2007	ML .XX	±.03	TITLE OUTLINE - TFNA - STEEL C'BOX	SCALE	1=5
2	UPDATED C'BOX GEOMETRY CN28428	DRS 11-29-2000	.XXX	±.005	280T FR. - TEFC - STD. 12.50 LAM.	REF	
1	NEW DRAWING	DRS 10-24-2000	.XXXX	±.0005	MAT'L	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 SS311060LN
						DIST LB	SIZE B DRAWING NO. SS311060LN PAGE OF 4 REV. 4

WYE START

HIGH VOLTAGE

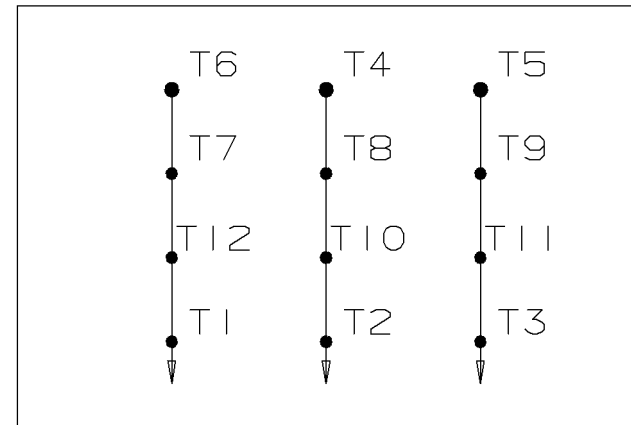
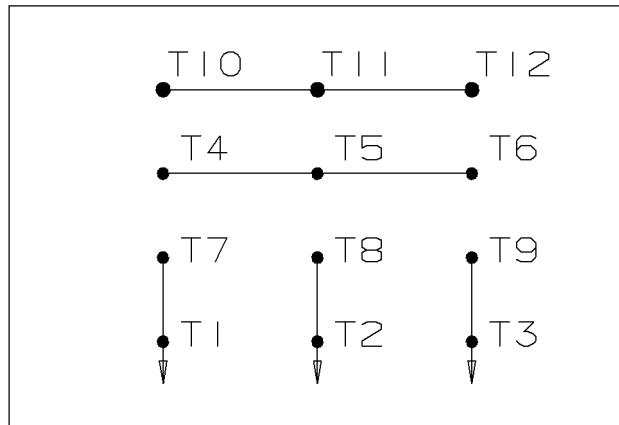
DELTA RUN



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
REV	DATE	CHANGE	NAME	PART NAME CONNECTION DIAGRAM			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
OUTLINE: B-SS311060LN-1425
WINDING: K2864292

CAT #: LM80081

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1800	1768	286T	TEFC	TFN	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	72/36&72/36	VVE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	92.4	3/4 LD EFF	92.4	1/2 LD EFF	91.7	GTD EFF	ELECT. TYPE
F.L. PF	85.0	3/4 LD PF	82.0	1/2 LD PF	74.0	91.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
89.0 LB-FT	214	175 LB-FT 197%	220 LB-FT 247%	75

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA		4.6 LB-FT²	0 LB-FT²	20 SEC.	0	540 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	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
311	210						

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
0.147	0.137	0.757	1.097	22.468	0.150	ODE

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

DATE: 9/3/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: NONE		

Data Sheet

Date: 9/3/2018

LM80081



Data @ **460 V**

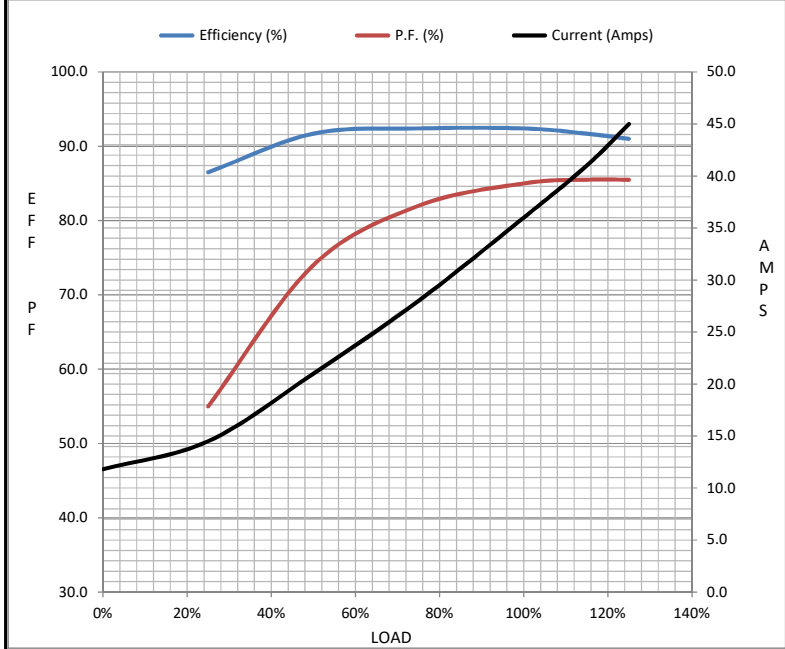
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	11.8	14.5	21.0	28.0	36.0	41.0	45.0	214
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	103	112	175
RPM	1800	1792	1785	1778	1768	1,762	1758	0
Efficiency (%)		86.5	91.7	92.4	92.4	91.7	91.0	
P.F. (%)	7.5	55.0	74.0	82.0	85.0	85.5	85.5	35.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1625	1768	1800
Current (Amps)	214	200	125	36.0	11.8
Torque (ft-lb)	175	160	220	89.0	0.00

Information Block				
HP	30.0			
Sync. RPM	1800			
Frame	286			
Enclosure	TEFC			
Construction	TFN			
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	4.6 Lb-Ft ²			
Ref Wdg	K2864292 NONE			
Sound Pressure @ 1M	68 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS311060LN-1425			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1470	0.1370	0.7570	1.0970	22.4680



Speed - Torque Curve

