

PRODUCT INFORMATION PACKET



Model No: LM80184

Catalog No: LM80184

Fire Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 324TS Frame,
TEFC



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Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V
Speed	1762 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	324TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	100/50 & 91/45.5 A	Power Factor	81
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	43
Number of Speeds	1		

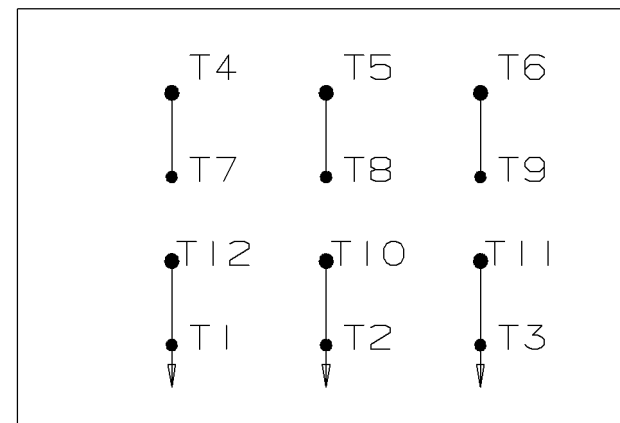
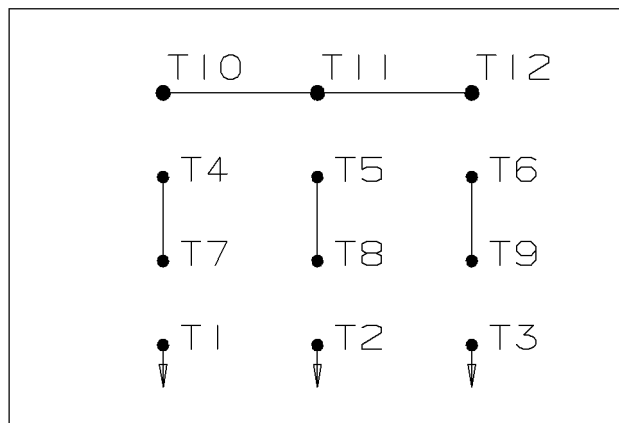
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.165 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	27.47 in
Frame Length	14.76 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS311064LN-1475	Connection Drawing	A-EE7358-LN

WYE START

HIGH VOLTAGE

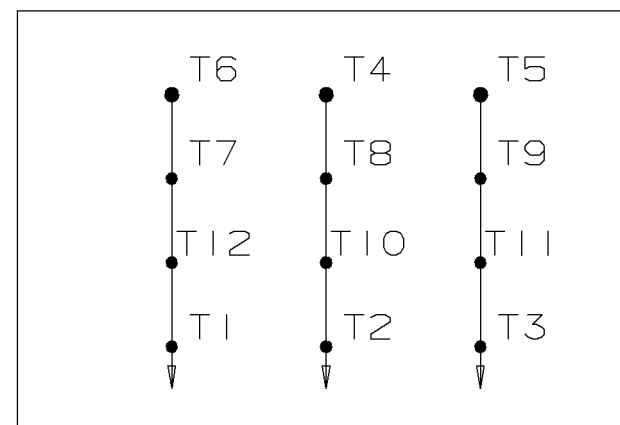
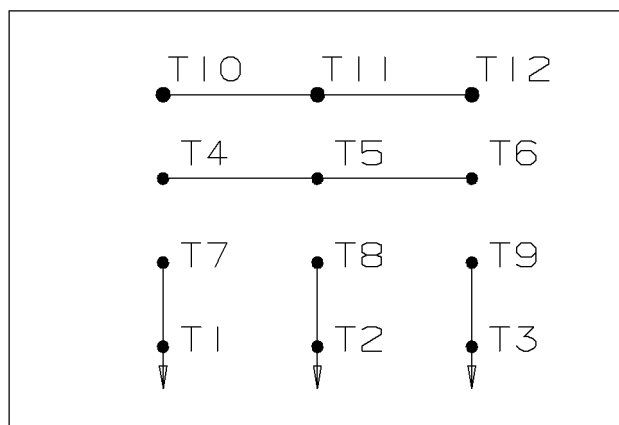
DELTA RUN



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	
I	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-SS311064LN-1475
WINDING: K2864234

CAT #: LM80184

NONE 11

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
40	30	1800	1762	324TS	TEFC	TFP	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	100/50&91/45.5	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	81.0	3/4 LD PF	76.5	1/2 LD PF	66.5	91.7	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
119 LB-FT	282	220 LB-FT 185%	315 LB-FT 265%	75

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA		4.7 LB-FT²	250 LB-FT²	25 SEC.	2	590 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						
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
0.104	0.106	0.557	0.674	11.628	0.150	ODE

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

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

UL: NONE

Data Sheet

Date: 9/3/2018

LM80184



Data @ 460 V

Motor Load Data

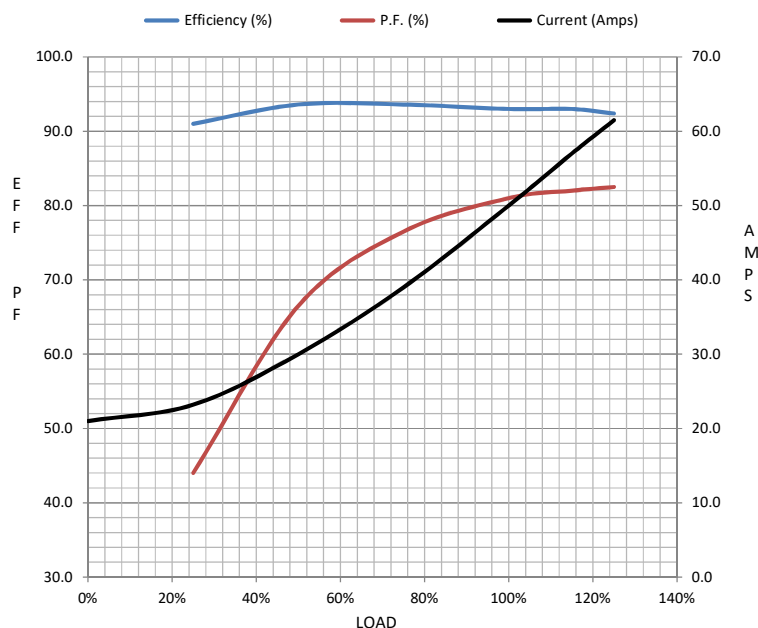
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	21.0	23.2	30.0	39.0	50.0	57.0	61.5	282	
Torque (ft-lb)	0.00	29.5	59.0	89.0	119	137	150	220	
RPM	1800	1792	1782	1775	1762	1,758	1750	0	
Efficiency (%)		91.0	93.6	93.6	93.0	93.0	92.4		
P.F. (%)	4.0	44.0	66.5	76.5	81.0	82.0	82.5	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1650	1762	1800
Current (Amps)	282	250	170	50.0	21.0
Torque (ft-lb)	220	210	315	119	0.00

Information Block

HP	40.0			
Sync. RPM	1800			
Frame	324			
Enclosure	TEFC			
Construction	TFP			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	4.7	Lb-Ft²		
Ref Wdg	K2864234	NONE		
Sound Pressure @ 1M	68	dBA		
VFD Rating	NONE			
Outline Dwg	B-SS311064LN-1475			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1040	0.1060	0.5570	0.6740	11.6280



Speed - Torque Curve

