

PRODUCT INFORMATION PACKET



Model No: LM80108

Catalog No: LM80108

Fire Pump Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 284TS Frame,
DP



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

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



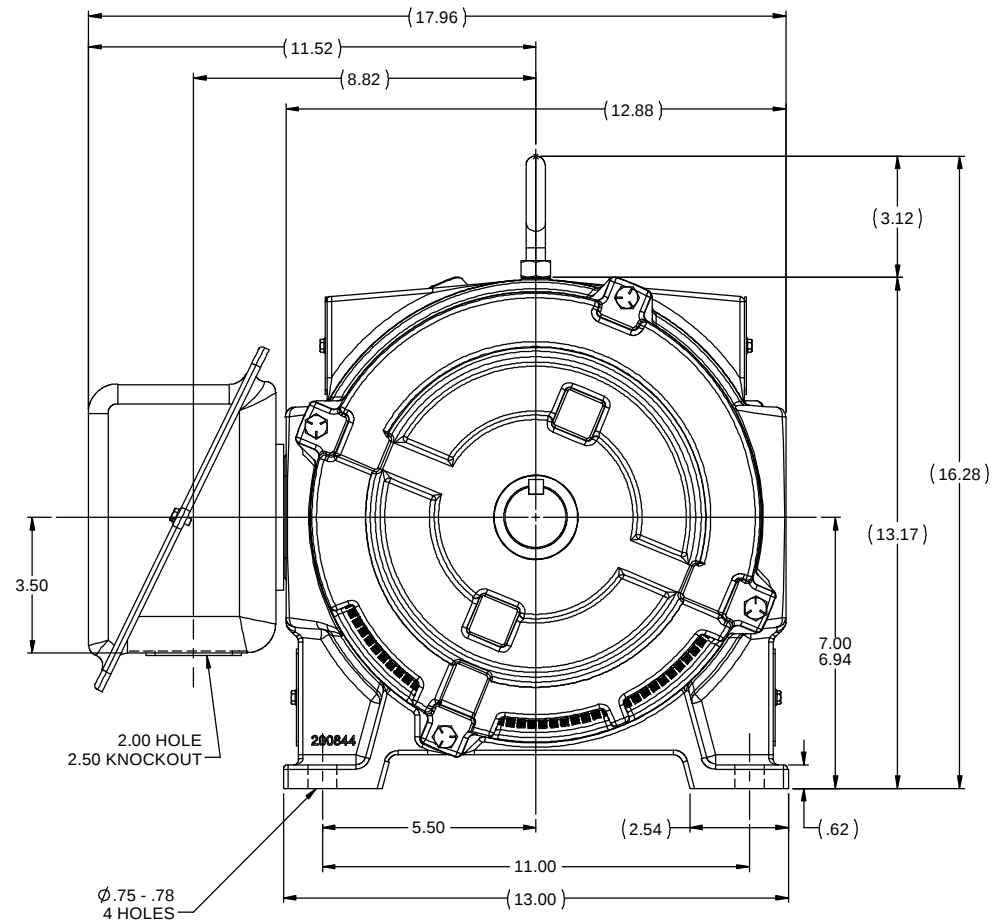


Nameplate Specifications

Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3530 & 2935 rpm	Service Factor	1.15 & 1.15
Frame	284TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 & 91.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	72/36 & 71/35.5 A	Power Factor	85.5
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	12
Number of Speeds	1		

Technical Specifications

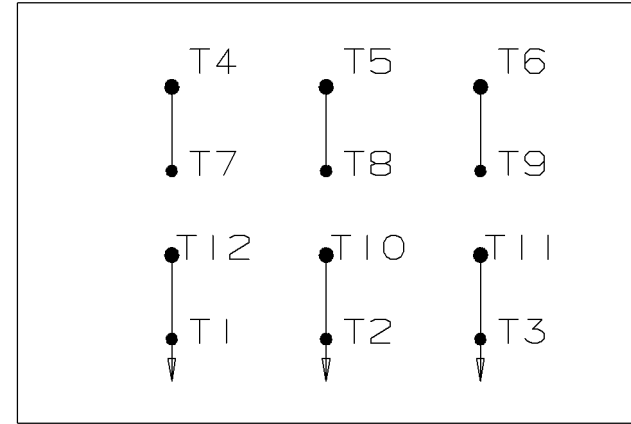
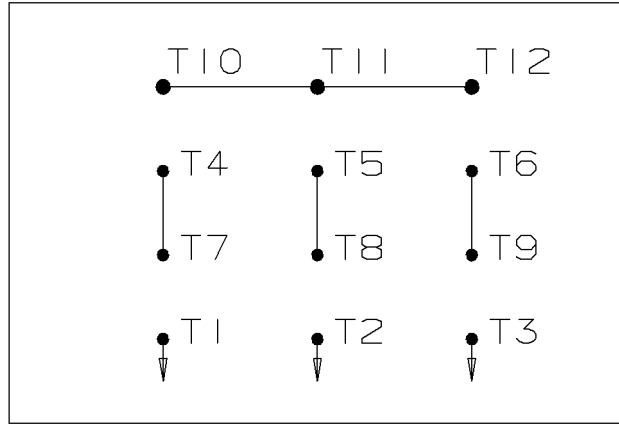
Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.364 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	22.06 in
Frame Length	12.75 in	Shaft Diameter	1.625 in
Shaft Extension	3.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS301315LN-1275	Connection Drawing	A-EE7358-LN



WYE START

HIGH VOLTAGE

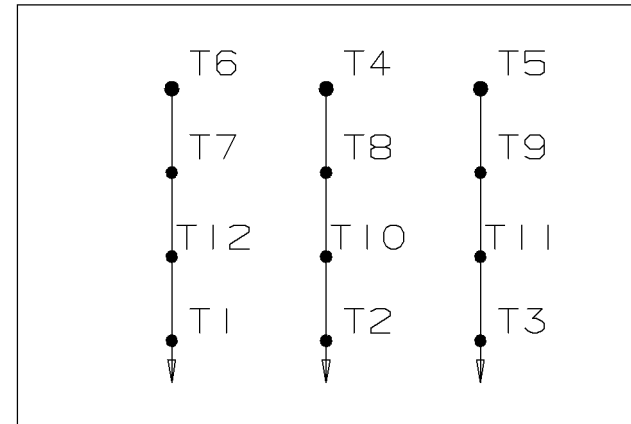
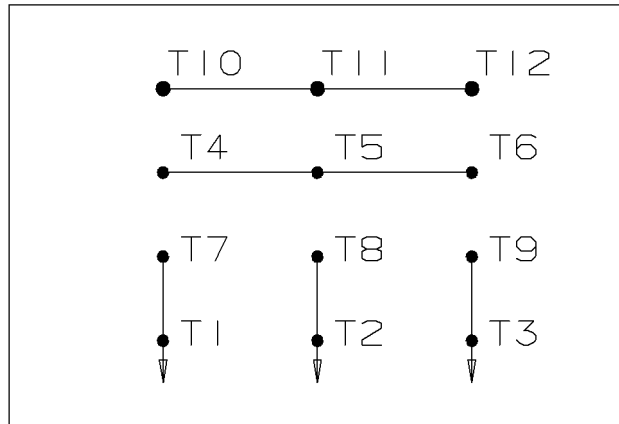
DELTA RUN



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	
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-SS301315LN-1275
WINDING: K256294

CAT #: LM80108

NONE 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	3600	3530	284TS	DP	TDP	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	72/36&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	91.7	GTD EFF	ELECT. TYPE
F.L. PF	85.5	3/4 LD PF	84.0	1/2 LD PF	76.5	89.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
44.5 LB-FT	200	67.0 LB-FT 151%	110 LB-FT 247%	40

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
80 dBA	89 dBA		1.25 LB-FT²	20 LB-FT²	15 SEC.	2	325 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
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
0.214	0.151	0.814	0.772	24.407	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

LM80108



Data @ 460 V

Motor Load Data

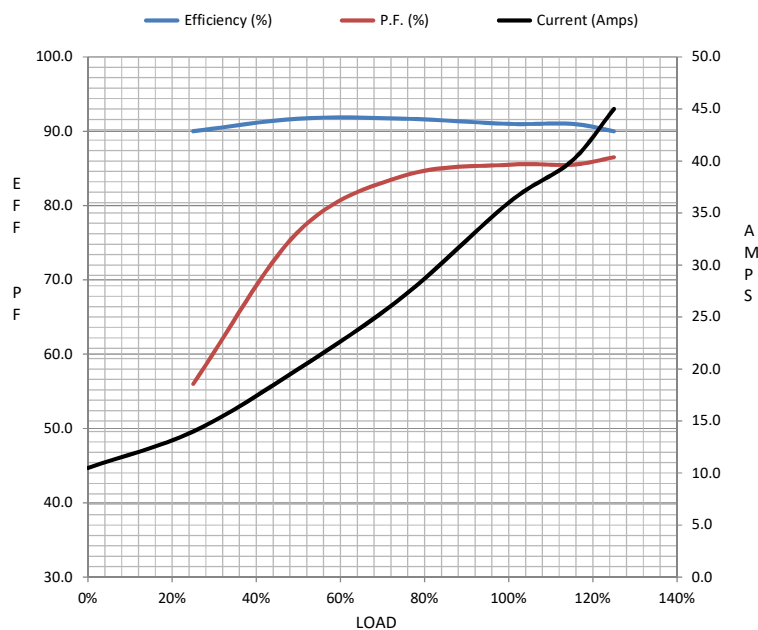
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	10.5	14.0	20.0	27.0	36.0	40.0	45.0	200	
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.5	50.0	56.0	67.0	
RPM	3600	3585	3570	3550	3530	3,520	3505	0	
Efficiency (%)		90.0	91.7	91.7	91.0	91.0	90.0		
P.F. (%)	11.0	56.0	76.5	84.0	85.5	85.5	86.5	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1930	3200	3530	3600
Current (Amps)	200	182	126	36.0	10.5
Torque (ft-lb)	67.0	72.0	110	44.5	0.00

Information Block

HP	30.0			
Sync. RPM	3600			
Frame	284			
Enclosure	DP			
Construction	TDP			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	40	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	1.25	Lb-Ft²		
Ref Wdg	K256294	NONE		
Sound Pressure @ 1M	80	dBA		
VFD Rating	NONE			
Outline Dwg	B-SS301315LN-1275			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2140	0.1510	0.8140	0.7720	24.4070



Speed - Torque Curve

