



MILLINGTON, TN

LITTLE ROCK, AR

## Job Information

Job #: 141806

Date: February 27,  
2020

Priority: —

Authorized OT: No

Authorized by:

## Customer Information

Name: South Treatment Plant

Motor#:

## Name Plate Information

Manufacturer: Reliance

Enclosure : Totally Enclosed  
Fan Cooled

Horsepower/kW: 5 LB. FT.

Serial#: 141806/1

Model#: 500947-LW

Service Factor:

Frame: K48

Rated RPM: 1725

Rated Voltage: 220/440

Phase: 3

Rated Amps: 2/1

Cycles: 60

Special design: Yes

## AC Electrical Inspection

Megs after rewind: Good

Surge after rewind: Good

Hi-pot after rewind: Good

Core loss: Good

Thermistors: None

Thermostat: None

RTD: None

ohms at

degrees C

Motor Heater(s) Present: No

Qty:

Voltage:

Wattage:

**WEST TENNESSEE**7030 Ryburn Drive  
Millington, TN 38053  
Phone 901-873-5300  
Fax 901-873-5301**CENTRAL ARKANSAS**6812 Lindsey Rd.  
Little Rock, AR 72206  
Phone 501-375-9178  
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## AC Electrical Inspection (Continued)

### Core Test Data

	Flux	Watts	Watts loss per lb	Condition of iron
Before burnout				
After burnout				

## Conclusion

Service Tech name: Kelly Felts

Service Tech signature:

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## Polyphase AC Winding

Polyphase Date: February 27, 2020

Hp/kw: 5 LB. FT. RPM: 1725 Poles: 4 Manufacturer: Reliance

Slots: 36 Type: Volts: 220/440

Coils: 36 Model: 500947-LW Amps: 2/1

12 Of 3

Grouping

Of

Serial#: 141806/1

Phase: 3

Lead marking: 1,2,3,4,5,6,7,8,9, Hertz: 60

Turns/Coil: 62 Lead length: 18 C Rise: Frame: K48

Wire Size 24 Lead size: 20 Duty: C AMB:

Wire Mult. 1 Num. Leads: 9 Eff.: Ins. Cls.:

Pitch 1 to: 9 ☐ DP ☒ TEFC ☐ XPRF ☐ TENV S.F.:

Connection: 1&amp;2Y

Jumper:

Core length: 1.562

Core ID: 3.125

Back iron: 0.375

Slot depth: 0.562

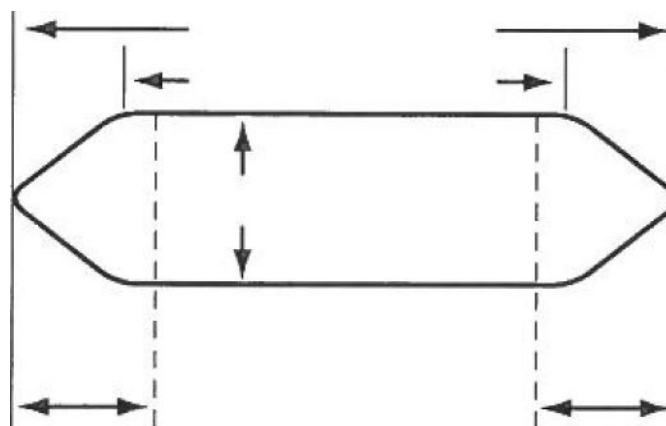
Slot/tooth w: 0.141

Wire weight: 3

Vents: Size

Rotor bars:

COIL

☐ LeftConnection End  
(Facing Terminal Box)☐ Right

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**Single Phase**Split Phase ☐Capacitor: ☐ Start ☐ Start & Run ☐ Perm. Split

Hp/kw: 5 LB. FT.

RPM: 1725

Manufacturer: Reliance

Run

Start

Type:

Volts: 220/440

Model: 500947-LW

Amps: 2/1

Style:

Hertz:

Form:

Frame:

Coils/pole

Dwg No.

C Rise:

Hrs.:

Cap. Mfd.:

Wire Size

Serial#: 141806/1

Wires in par.

Duty: —

☐ BB☐ SB

No. Circuits

Open: —

Coil Ext.

Sta.length:

Sta.b.i.:

Stator Bore

Running ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Slot No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Starting ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Customer: South Treatment Plant

(Please return a copy to EASA Headquarters, 1331 Baur Blvd., St. Louis, MO 63132)

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## AC Stator Form Coil Data

1. Core bore diameter
2. Total core length
3. Back iron
4. No. of vents
5. Width of vents
6. Finger plate width
7. Overall coil length
8. Connection end extension
9. Opposite Conn. End Ext.
10. Straight length bottom side
11. Straight length top side
12. Small knuckle drop. CE
13. Large knuckle drop. CE
14. Conn. Support Ring from core
15. Opp. Conn. Supp. Ring from core
16. Connection support ring ID
17. Opp. Conn. Supp. Ring ID
18. Total slot depth
19. Slot depth under wedge
20. Slot width

OCE

OCE



## AC Stator Form Coil Data (Continued)

21. Lead location ☐ A ☐ B ☐ C ☐ D

22. Coil type ☐ Left hand ☐ Right hand

23. Coil leads Long# LG

Short# LG

☐ Out ☐ Down

24. Jumper —

25. Connection —

26. No. of circuits

27. No. of slots

28. Coil throw 1-

29. Turns per coil

30. Total wires in parallel

31. Bare wire sizes ( ) x

( ) x

32. Strand insulation

☐ Film ☐ Glass ☐ Mica ☐ Bare ☐ Other

33. Coil weight Lbs.

34. Groups of Coils

Groups of Coils

35. Iron skewed ☐ Right ☐ Left in




# AC Stator Form Coil Data (Continued)

## Special Features      Yes      No

Data change      ☐      ☐

Coil support ring steel      ☐      ☐

Terrace wound      ☐      ☐

Corona Protection      ☐      ☐

RTDs      ☐      ☐

Ohms      Qty

Hermetic      ☐      ☐

Slot paper used      ☐      ☐

Insulation class      ☐ B      ☐ F      ☐ H

☐ VPI      ☒ Dip & Bake      ☐ Sealed

☐ Leads taped      ☐ Leads sleeved

## Comments

Old winding data  
1&2Y Connection  
6 of 3 grouping  
1#24 wire size  
8-10-12 Span  
122 Turns per coil  
Lead End 1 1/8"  
Opposite Lead End  
1"

New winding data  
12 of 3 Grouping  
62 Turns per coil

