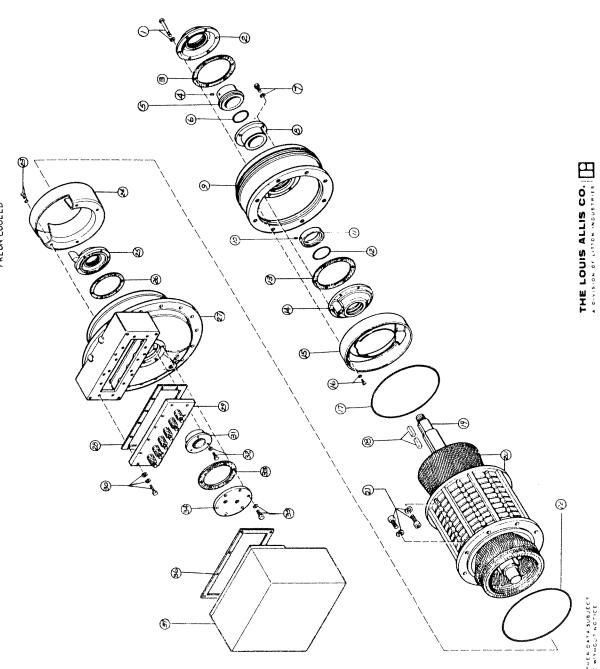
HERMETIC MOTOR INSTRUCTION MANUAL

HERMETIC TYPE SQUIRREL CAGE MOTORS

SLEEVE BEARING OIL LUBRICATED FREON COOLED



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JN 15, Pege 403
April, 1971
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New

Hermetic Freen Cooled Frame 1500-1900

R1108A

- 1. Back Outside Cap Bolts and Washers
- 2. Back Outside Cap
- Back Outside Cap Gasket
 Back Lab Seal Set Screws
 Back Lab Seal
- 6. Back Lab Seal "O" Ring
- 7. Back Bearing Screws and Washers
- 9. Back Bearing Bracket. 10. Back Oil Thrower Set Screws

8. Back Sleeve Bearing

- 11. Back Oil Thrower
- 12. Back Oil Thrower "O" Ring
 - 13. Back Inside Cap Gasket
- 14. Back Inside Cap15. Back Air Deflector16. Back Air Deflector Screws
- 17. Stator "O" Ring
- 18. Shaft Keys 19. Shaft and Rotor

- 20. Stator Core and Winding 21. Stator Core and Bracket Bolts and Wasbers
 - 22. Stator "O" Ring

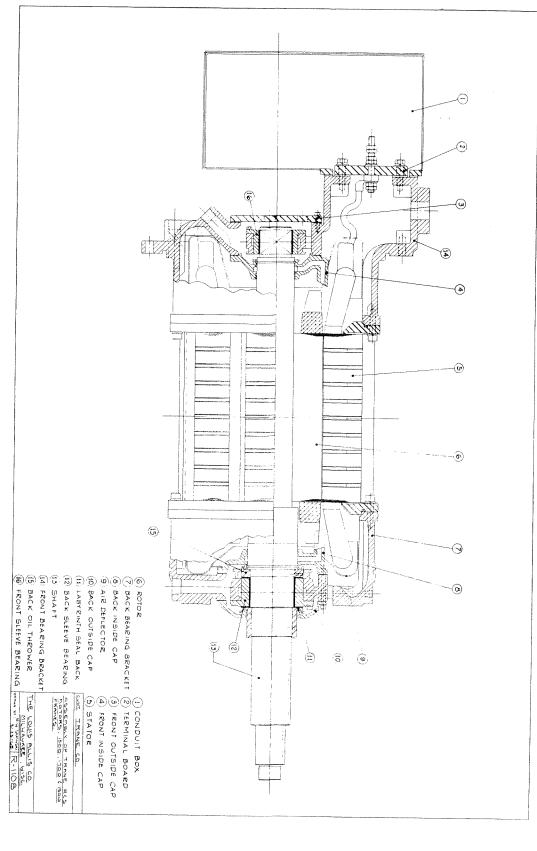
- 23. Front Air Deflector Screws 24. Front Air Deflector
- 25. Front Inside Cap (Bolts and Washers not shown) 26. Front Inside Cap Gasket

 - 27. Front Bearing Bracket
- 28. Terminal Board Gasket 29. Terminal Board Assembly
- 30. Terminal Board Bolts and Washers 31. Front Sleeve Bearing
- 32. Front Bearing Screws and Washers
 - 33. Front Outside Cap Gasket
 - 34. Front Outside Cap
- 35. Front Outside Cap Bolts and Washers
- 36. Conduit Box Gasket (Supplied by the Trane Co.) 37. Conduit Box (Supplied by the Trane Co.)
- REQUIRED ORDER INFORMATION
- 1. Motor Serial Number 2. Part Name

PRICES AND CTUER DATA SUBJECT TO CHANGE WITHOUT NOTICE

HERMETIC TYPE SQUIRREL CAGE MOTORS

SLEEVE BEARING OIL LUBRICATED FREON COOLED



PRICES AND OTHER DATA SUBJECT TO CHANGE WITHOUT NOTICE NEW PAGE

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1. Conduit Box

Terminal Board
 Front Outside Cap

4. Front Inside Cap

5. Stator
6. Rotor
7. Back Bearing Bracket
8. Back Inside Cap

9. Air Deflector
10. Back Outside Cap
11. Labyrinth Seal Back
12. Back Sleeve Bearing
13. Shaft
14. Front Bearing Bracket
15. Back Oil Thrower
16. Front Sleeve Bearing

REQUIRED ORDER INFORMATION

Motor Serial Number
 Part Name

_RVICE MANUAL SECTION 15, Page 401 December, 1965

Hermetic Freon Cooled Frame 1500-1900

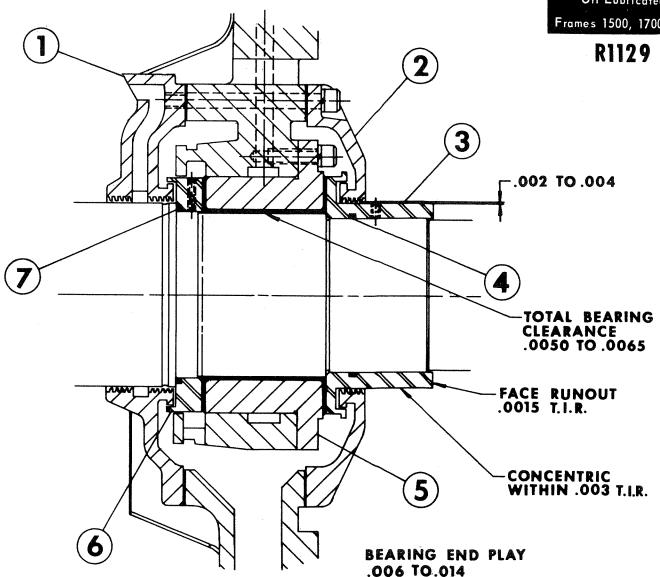
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HERMETIC TYPE SQUIRREL CAGE MOTORS

BEARING CONSTRUCTION

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- 1. Back Inside Cap
- 2. Back Outside Cap
- 3. Shaft Labyrinth Seal
- 4. "O" Ring for Shaft Labyrinth Seal
- 5. Sleeve Bearing
- 6. Back Inside Oil Thrower
- 7. "O" Ring for Inside Oil Thrower

SERVICE MANUAL SECTION 16, Page 360 April, 1969 Supersedes New

DESIGN FEATURES

CONSTRUCTION

Back Sleeve bearings used in RCS, Hermetic type motors frame 1500, 1700, and 1900 are of one piece construction. The bearing is a push fit in the bearing bracket and held in position by three bearing retaining bolts.

The inside thrower is a push fit on the shaft and is held in position by set screws. The inside thrower is equipped with an "O" ring, note that the inside cap must be placed in position on the shaft before inside thrower is placed in position.

The shaft labyrinth seal is a push fit on the shaft and is also equipped with an "O" ring.

LUBRICATION

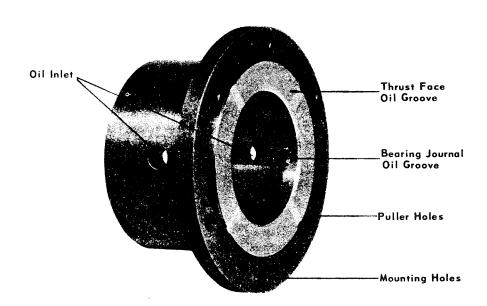
The bearing is pressure lubricated. A pressure of approximately 15 psi is desired for best operating conditions. The oil enters at the top of the bearing (oil inlet) and flows to the shaft bearing journal through two holes 180 degrees apart on the horizontal centerline. The oil

flows along the grooves on each side of the bearing. The shaft journal acting as a pump builds up an oil film in the bearings. The shaft rides on this oil film resulting in what is termed thick film hydrodynamic lubrication. The oil leaves the bearing at each end and goes to the drain and sump system.

PROCEDURE FOR DISASSEMBLY

- 1. Bearing Cap Nuts
- 2. Outside Bearing Cap
- 3. Shaft Labyrinth Seal
- 4. Bearing Retaining Bolts
- 5. Insert Bearing Retaining Bolts in tapped holes in bearing. Turn bolts and bearing will be pulled from bearing bracket.
- 6. Bearing Bracket Bolts (not shown)
- 7. Bearing Bracket
- 8. Inside Slinger Set Screws
- 9. Inside Slinger
- 10. Inside Bearing Cap.

To reassemble, the bearing is pressed into the bearing bracket and the parts assembled in reverse of the above procedure.



Sleeve Bearing