

# Product Information Packet

November 7, 2016

Data shown is for the current revision model #. Ensure your nameplate model # matches.

|                            |                        |
|----------------------------|------------------------|
| <b>Model Number:</b>       | <b>5CD193PA094A244</b> |
| <b>Catalog Number:</b>     | <b>D657</b>            |
| <b>Instruction Manual:</b> | GEH-3967N              |
| <b>Connection Diagram:</b> | 36A167900CB501         |
| <b>Outline Drawing:</b>    | 36A167936AA001         |

| <b>Accessory Connection Diagrams</b> |      |                              |      |
|--------------------------------------|------|------------------------------|------|
| <b>Bearing Thermocouple:</b>         | None | <b>Heater:</b>               | None |
| <b>RTD:</b>                          | None | <b>Thermistor:</b>           | None |
| <b>Thermostat:</b>                   | None | <b>Winding Thermocouple:</b> | None |
| <b>Bearing RTD:</b>                  | None |                              |      |

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Marks:

|                            |                            |                             |                |
|----------------------------|----------------------------|-----------------------------|----------------|
| <b>MODEL NUMBER:</b>       | <b>5CD193PA094A244</b>     | <b>Enclosure Mtg Assem:</b> | 36A167775BC001 |
| <b>Outline Drawing:</b>    | 36A167936AA001             | <b>Instruction Book:</b>    | GEH-3967N      |
| <b>Connection Diagram:</b> | 36A167900CB501             | <b>RPM:</b>                 | 1750/2100      |
| <b>Horsepower:</b>         | 75                         | <b>Armature Amps:</b>       | 122            |
| <b>Armature Volts:</b>     | 500                        | <b>Type:</b>                | CD366AT        |
| <b>Wound:</b>              | SHUNT                      | <b>Power Supply Code:</b>   | C              |
| <b>Enclosure:</b>          | DPFG-BV                    | <b>Insulation Class:</b>    | F              |
| <b>Duty:</b>               | CONT                       | <b>Ambient Max (°C):</b>    | 40 C           |
| <b>Rating Code:</b>        | 193P1240-00                | <b>Field Volts:</b>         | 300/150        |
| <b>K(V):</b>               | 2.57 Cemf volts/Radian/Sec | <b>WK2:</b>                 | 18.30Lb Ft2    |
| <b>K(T):</b>               | 1.84 Ft/Amp                | <b>Year of Manufacture:</b> | 2016           |
| <b>Minimum Ambient:</b>    | 0 C                        | <b>Max Altitude:</b>        | 3300 Ft        |

Resistances at 25 Degrees C :

|                          |            |
|--------------------------|------------|
| <b>Shunt Field:</b>      | 91.7 OHMS  |
| <b>Armature:</b>         | .1333 OHMS |
| <b>Commutator Field:</b> | .0340 OHMS |

Inductances:

|                                |                          |
|--------------------------------|--------------------------|
| <b>Armature Circuit Total:</b> | 3.520 mH Saturated       |
| <b>Shunt Field:</b>            | 55.0 Henries Unsaturated |

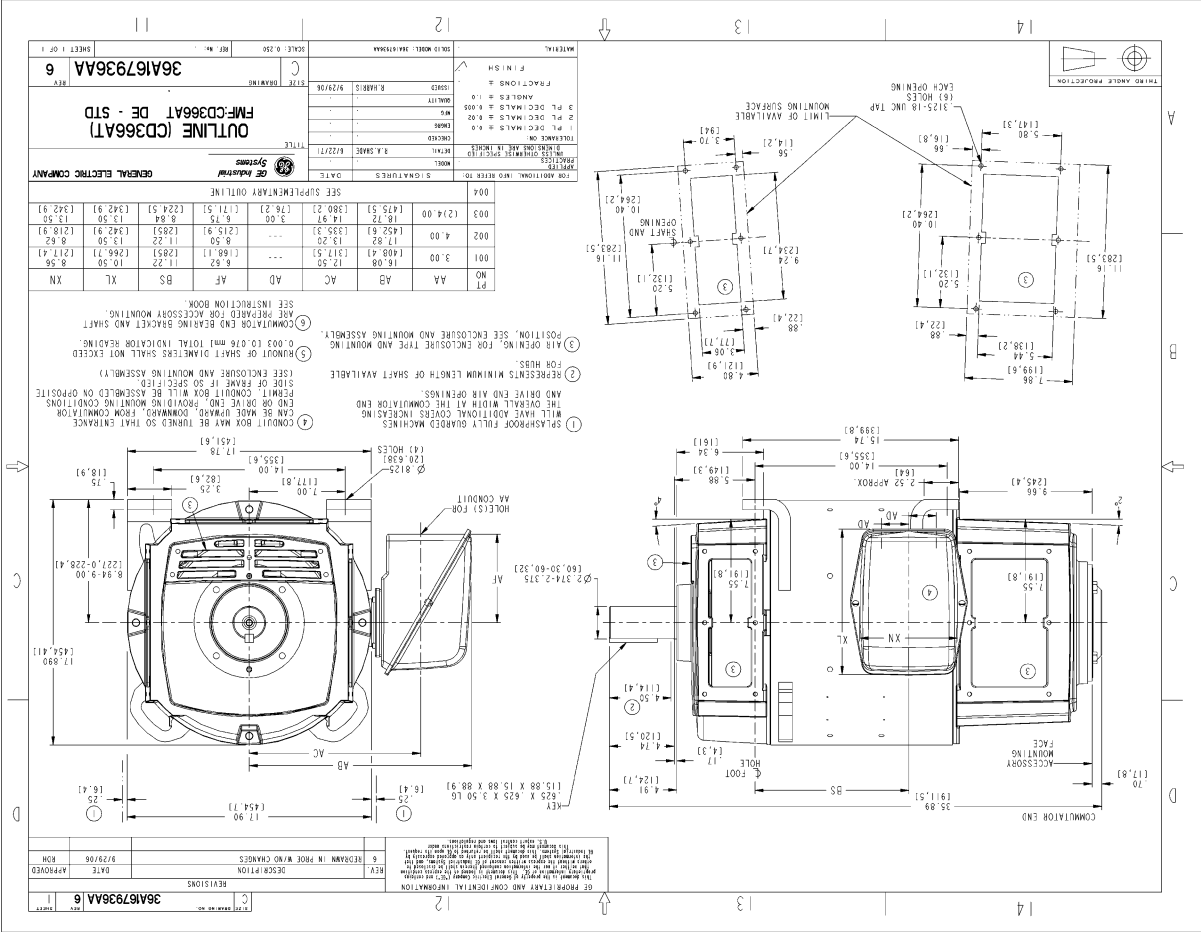
Shunt Field Data:

Shunt Field Current(1): 2.4 AMPS at Rated Load and 1750 RPM  
 Shunt Field Current(2): 2.18 AMPS at Rated Load and 1867 RPM  
 Shunt Field Current(3): 1.85 AMPS at Rated Load and 2100 RPM

Additional Machine Notes:

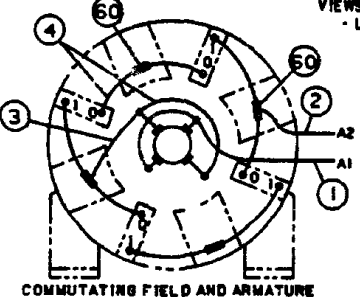
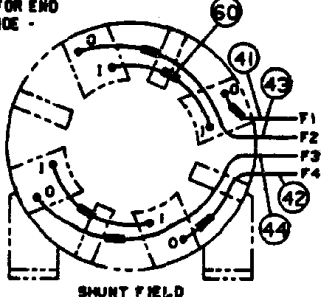
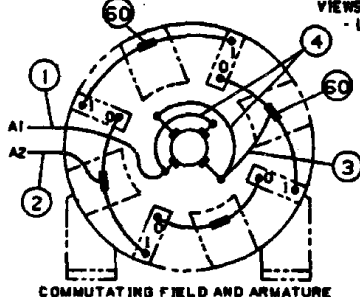
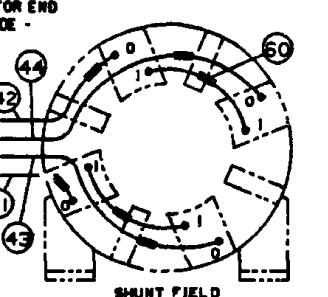
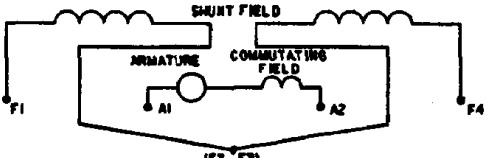
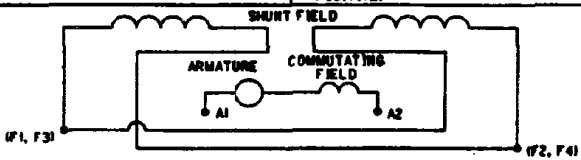
DRIPPROOF FULLY GUARDED, BLOWER VENTILATED - BALL BEARINGS  
 CONDUIT BOX ON LEFT HAND SIDE FACING COMMUTATOR END  
 STANDARD SHAFT DRIVE END ONLY - WITH FEET  
 WITH:  
 CSA STAMP  
 THERMOSTAT- NORMALLY CLOSED, AC RATING- 600V MAX-  
 .5A, 250V-1.5A, OR 125V-3A- DC RATING- 30V MAX-  
 1.5A. MAXIMUM CURRENT BASED ON INDUCTIVE LOADS UP  
 TO AND INCLUDING NEMA NO. 5 CONTACTOR.

Marks:



NAME: 28089544 OBJECT: 36A167936AA DATE: 09-04-06 11:28:37

Marks:

|   |   |  |  |                                     |   |  |  |  |
|---|---|--|--|-------------------------------------|---|--|--|--|
| NO S.O.   | <b>GENERAL ELECTRIC</b>   | 36A167900CB501<br>CONT ON SHEET      SN NO.                      |  |                                     |   |  |  |  |
| 36A167900CB501<br>CONT ON SHEET      SN NO.   | <b>CONNECTION DIAGRAM</b>   |  |  |                                     |   |  |  |  |
| FIRST MADE FOR 4 POLE - 360AT (WP)  |   |  |  |                                     |   |  |  |  |
| DIRECT CURRENT MOTOR AND GENERATOR - SHUNT WOUND<br>1 OR 2 CIRCUIT SHUNT FIELD - 2 CIRCUIT COMMUTATING FIELD  |   |  |  |                                     |   |  |  |  |
| VIEWS FACING COMMUTATOR END<br>- LEADS OUT RIGHT SIDE -   |   |  |  |                                     |   |  |  |  |
|  <p>COMMUTATING FIELD AND ARMATURE</p>   |  <p>SHUNT FIELD</p>   |  |  |                                     |   |  |  |  |
| VIEWS FACING COMMUTATOR END<br>- LEADS OUT LEFT SIDE -  |   |  |  |                                     |   |  |  |  |
|  <p>COMMUTATING FIELD AND ARMATURE</p>  |  <p>SHUNT FIELD</p>  |  |  |                                     |   |  |  |  |
| <p>ALL EXTERNAL LEADS ARE MARKED. ALL CONNECTIONS AND TERMINATIONS EXTERNAL TO MAGNET FRAME MUST BE INSULATED PER NATIONAL ELECTRICAL CODE AND SOUND LOCAL PRACTICES.</p> <p>SPACE HEATERS, WHEN SPECIFIED, WILL HAVE LEADS WITH TERMINAL MARKINGS H1 AND H2.</p> <p>THERMOSTAT, WHEN SPECIFIED, WILL HAVE LEADS WITH TERMINAL MARKINGS T1 AND T2.</p> <p>ENCIRCLED NUMBERS MAY BE USED FOR PART IDENTIFICATION.</p>  |   |  |  |                                     |   |  |  |  |
| <p>FOR HIGH NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p>   |    |  |  |                                     |   |  |  |  |
| <p><b>MOTOR CONNECTIONS:</b><br/>FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A1 THE SAME POLARITY.<br/>FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A2 THE SAME POLARITY.</p>   | <p><b>GENERATOR CONNECTIONS:</b><br/>FOR CW ROTATION FACING COMMUTATOR END, F1 POSITIVE WILL MAKE A2 POSITIVE.<br/>FOR CCW ROTATION FACING COMMUTATOR END, F1 POSITIVE WILL MAKE A1 POSITIVE.</p>           |  |  |                                     |   |  |  |  |
| <p>FOR LOW NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p>  |    |  |  |                                     |   |  |  |  |
| <p><b>MOTOR CONNECTIONS:</b><br/>FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1,F3) &amp; A1 THE SAME POLARITY.<br/>FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1,F3) &amp; A2 THE SAME POLARITY.</p>   | <p><b>GENERATOR CONNECTIONS:</b><br/>FOR CW ROTATION FACING COMMUTATOR END, (F1,F3) POSITIVE WILL MAKE A2 POSITIVE.<br/>FOR CCW ROTATION FACING COMMUTATOR END, (F1,F3) POSITIVE WILL MAKE A1 POSITIVE.</p> |  |  |                                     |   |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">I 10-7-94<br/>R.D.BOLLA</td> <td style="width:50%;">NO S.O.<br/>RETR</td> </tr> </table>  | I 10-7-94<br>R.D.BOLLA  | NO S.O.<br>RETR  | QC (1) CAD   |                                     |   |  |  |  |
| I 10-7-94<br>R.D.BOLLA  | NO S.O.<br>RETR   |  |  |                                     |   |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">MADE BY<br/>W.C.HOVIS FEB.15.1972</td> <td style="width:33%;">FILE<br/>KC13-1</td> <td style="width:33%;">GE MOTORS      DIV OR DEPT<br/>ERIE                      LOCATION</td> </tr> <tr> <td style="width:33%;">RE-ISSUED<br/>CAD/ R.D.BOLLA 10-7-94</td> <td colspan="2" style="text-align: right; vertical-align: top;">36A167900CB501<br/>CONT ON SHEET      SN NO.</td> </tr> </table> | MADE BY<br>W.C.HOVIS FEB.15.1972  | FILE<br>KC13-1   | GE MOTORS      DIV OR DEPT<br>ERIE                      LOCATION | RE-ISSUED<br>CAD/ R.D.BOLLA 10-7-94 | 36A167900CB501<br>CONT ON SHEET      SN NO. |  |  |  |
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| RE-ISSUED<br>CAD/ R.D.BOLLA 10-7-94   | 36A167900CB501<br>CONT ON SHEET      SN NO.   |  |  |                                     |   |  |  |  |

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