

# Product Information Packet

November 7, 2016

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

<b>Model Number:</b>	<b>5CD203NA039A054</b>
<b>Catalog Number:</b>	<b>D659</b>
<b>Instruction Manual:</b>	GEH-3967N
<b>Connection Diagram:</b>	36A167910CA502
<b>Outline Drawing:</b>	36A167937AA002

Accessory Connection Diagrams			
<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>5CD203NA039A054</b>	<b>Enclosure Mtg Assem:</b>	36A167775AC001
<b>Outline Drawing:</b>	36A167937AA002	<b>Instruction Book:</b>	GEH-3967N
<b>Connection Diagram:</b>	36A167910CA502	<b>RPM:</b>	1150/2000
<b>Horsepower:</b>	100	<b>Armature Amps:</b>	162
<b>Armature Volts:</b>	500	<b>Type:</b>	CD407AT
<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>	203N1360-10	<b>Field Volts:</b>	300/150
<b>K(V):</b>	3.94 Cemf volts/Radian/Sec	<b>WK2:</b>	35.00Lb Ft2
<b>K(T):</b>	2.82 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>	28.5 OHMS
<b>Armature:</b>	.0831 OHMS
<b>Commutator Field:</b>	.0320 OHMS

**Inductances:**

<b>Armature Circuit Total:</b>	3.290 mH Saturated
<b>Shunt Field:</b>	24.0 Henries Unsaturated

**Shunt Field Data:**

Shunt Field Current(1): 7.1 AMPS at Rated Load and 1150 RPM  
 Shunt Field Current(2): 4.84 AMPS at Rated Load and 1433 RPM  
 Shunt Field Current(3): 2.96 AMPS at Rated Load and 2000 RPM

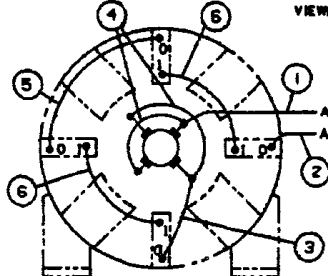
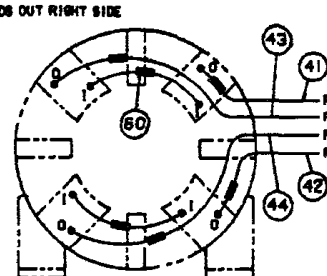
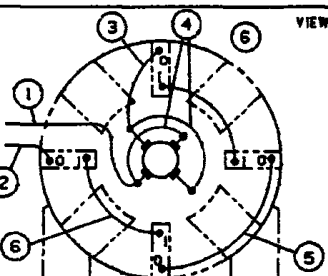
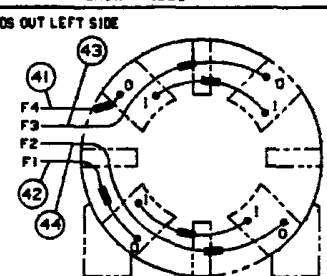
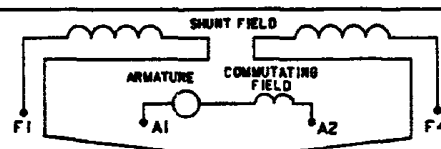
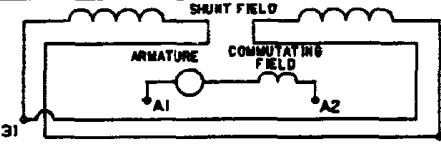
**Additional Machine Notes:**

DRIPPROOF FULLY GUARDED, BLOWER VENTILATED - BALL BEARINGS  
 CONDUIT BOX ON RIGHT 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:

NO S.O.	<b>GENERAL ELECTRIC</b>	36A167910CA502 CONT ON SHEET SH NO.
36A167910CA502 CONT ON SHEET SH NO.	<b>DIAGRAM, CONNECTION</b>	
FIRST MADE FOR 4 POLE (EW)		
DIRECT CURRENT MOTOR AND GENERATOR - SHUNT WOUND 1 OR 2 CIRCUIT SHUNT FIELD - 1 CIRCUIT COMMUTATING FIELD		
VIEWS FACING COMMUTATOR END - LEADS OUT RIGHT SIDE		
 <p>COMMUTATING FIELD AND ARMATURE</p>	 <p>SHUNT FIELD</p>	
VIEWS FACING COMMUTATOR END - 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 P1 AND P2</p> <p>ENCIRCLED NUMBERS MAY BE USED FOR PART IDENTIFICATION.</p>		
<p>FOR HIGH NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>		
<p><b>MOTOR CONNECTIONS:</b> FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A1 THE SAME POLARITY. FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A2 THE SAME POLARITY.</p> <p><b>GENERATOR CONNECTIONS:</b> FOR CW ROTATION FACING COMMUTATOR END, F1 POSITIVE WILL MAKE A2 POSITIVE. 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> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>		
<p><b>MOTOR CONNECTIONS:</b> FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1, F3) &amp; A1 THE SAME POLARITY. FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1, F3) &amp; A2 THE SAME POLARITY.</p> <p><b>GENERATOR CONNECTIONS:</b> FOR CW ROTATION FACING COMMUTATOR END, (F1, F3) POSITIVE WILL MAKE A2 POSITIVE. FOR CCW ROTATION FACING COMMUTATOR END, (F1, F3) POSITIVE WILL MAKE A1 POSITIVE.</p>		
08-30-94 DC HILL	NO S.O. RETRACTED	CAD
MADE BY WC HOVIS FEB. 16, 1972 RE-ISSUED CAD/ DC Hill 8-30-94	FILE KC13-1	GE MOTORS DIV OR DEPT ERIE LOCATION
36A167910CA502 CONT ON SHEET SH NO.		36A167910CA502 CONT ON SHEET SH NO.

DC-28112-16-671

C5X.A.36A167910CA502R01

