

# Product Information Packet

November 7, 2016

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

<b>Model Number:</b>	<b>5CD144EC002B052</b>
<b>Catalog Number:</b>	<b>D682</b>
<b>Instruction Manual:</b>	GEH-3967
<b>Connection Diagram:</b>	36A167960CA501
<b>Outline Drawing:</b>	36B467421AA003

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>	5CD144EC002B052	<b>Enclosure Mtg Assem:</b>	36A167772GD201
<b>Outline Drawing:</b>	36B467421AA003	<b>Instruction Book:</b>	GEH-3967
<b>Connection Diagram:</b>	36A167960CA501	<b>RPM:</b>	1750/2300
<b>Horsepower:</b>	3	<b>Armature Amps:</b>	5.1
<b>Armature Volts:</b>	500	<b>Type:</b>	CDL186ATC
<b>Wound:</b>	SHUNT	<b>Power Supply Code:</b>	D
<b>Enclosure:</b>	TENV	<b>Insulation Class:</b>	F
<b>Duty:</b>	CONT	<b>Ambient Max (°C):</b>	40 C
<b>Rating Code:</b>	144EB1330-01	<b>Field Volts:</b>	300/150
<b>K(V):</b>	2.56 Cemf volts/Radian/Sec	<b>WK2:</b>	.67Lb Ft2
<b>K(T):</b>	1.76 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>	476 OHMS
<b>Armature:</b>	2.9222 OHMS
<b>Commutator Field:</b>	1.5001 OHMS

**Inductances:**

<b>Armature Circuit Total:</b>	101.620 mH Saturated
<b>Shunt Field:</b>	284.0 Henries Unsaturated

**Shunt Field Data:**

Shunt Field Current(1): .45 AMPS at Rated Load and 1750 RPM  
 Shunt Field Current(2): .36 AMPS at Rated Load and 1933 RPM  
 Shunt Field Current(3): .26 AMPS at Rated Load and 2300 RPM

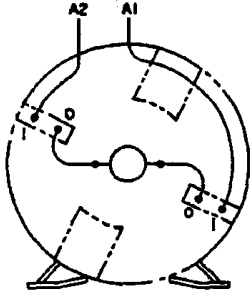
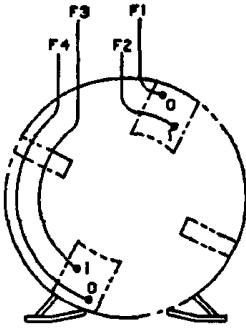
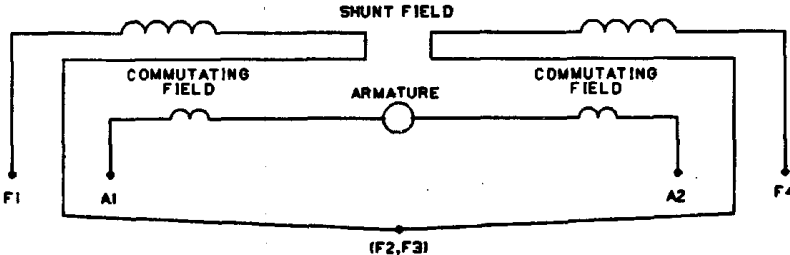
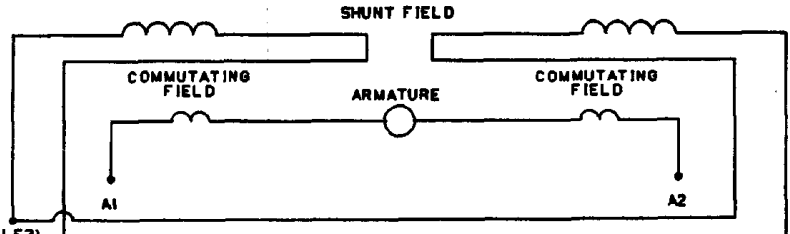
**Additional Machine Notes:**

TOTALLY ENCLOSED NON VENTILATED - BALL BEARINGS  
 CONDUIT BOX ON RIGHT HAND SIDE FACING COMMUTATOR END  
 STANDARD SHAFT ON 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>	36A167960CA501 CONT ON SHEET SH NO.
REV 1 36A167960CA501 CONT ON SHEET	TITLE <b>CONNECTION DIAGRAM</b>	SH NO.
SH NO.	FIRST MADE FOR 180AT 2 POLE	SH NO.
DIRECT CURRENT MOTOR AND GENERATOR - SHUNT WOUND 1 OR 2 CIRCUIT SHUNT FIELD, 1 CIRCUIT COMMUTATING FIELD		
VIEWS FACING COMMUTATOR END		
		
COMMUTATING FIELD AND ARMATURE	SHUNT FIELD	
<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>		<p>FOR CW ROTATION FACING COMM END, F1 POSITIVE WILL MAKE A2 POSITIVE.</p> <p>FOR CCW ROTATION FACING COMM END, F1 POSITIVE WILL MAKE A2 POSITIVE.</p>
	(F2,F3)	
<p>MOTOR CONNECTIONS: FOR CCW ROTATION FACING COMM END, MAKE LEADS F1 AND A1 THE SAME POLARITY. FOR CW ROTATION FACING COMM END, MAKE LEADS F1 AND A2 THE SAME POLARITY.</p>	<p>GENERATOR CONNECTIONS: FOR CW ROTATION FACING COMM END, F1 POSITIVE WILL MAKE A2 POSITIVE. FOR CCW ROTATION FACING COMM END, F1 POSITIVE WILL MAKE A2 POSITIVE.</p>	
<p>FOR LOW NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p>		<p>FOR CW ROTATION FACING COMM END, (F1,F3) POSITIVE WILL MAKE A2 POSITIVE.</p> <p>FOR CCW ROTATION FACING COMM END, (F1,F3) POSITIVE WILL MAKE A2 POSITIVE.</p>
	(F1,F3)	(F2,F4)
<p>MOTOR CONNECTIONS: FOR CCW ROTATION FACING COMM END, MAKE LEADS (F1,F3) AND A1 THE SAME POLARITY. FOR CW ROTATION FACING COMM END, MAKE LEADS (F1,F3) AND A2 THE SAME POLARITY.</p>	<p>GENERATOR CONNECTIONS: FOR CW ROTATION FACING COMM END, (F1,F3) POSITIVE WILL MAKE A2 POSITIVE. FOR CCW ROTATION FACING COMM END, (F1,F3) POSITIVE WILL MAKE A2 POSITIVE.</p>	
<p>94-10-12 NO S.O. DC HILL RETRACED</p>	<p>MADE BY N STEWART 75-08-05</p> <p>RE-ISSUED CAD/DC Hill 94-10-12</p>	<p>APPROVALS FILE KC13-1</p> <p>GE MOTORS ERIE</p> <p>DIV OR DEPT LOCATION</p> <p>36A167960CA501 CONT ON SHEET SH NO.</p>

ORIGINAL FRACING

49-3131 4487 CAD  
DISTR TO

C5X.A.36A167960CA501R01