

# Product Information Packet

November 7, 2016

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

<b>Model Number:</b>	<b>5CD184VA085B006</b>
<b>Catalog Number:</b>	<b>D589</b>
<b>Instruction Manual:</b>	GEH-3967N
<b>Connection Diagram:</b>	36A167760CB501
<b>Outline Drawing:</b>	36A167945AA002

<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		

<b>Table of Contents</b>	
Specification	01
Outline Drawing	02
Connection Drawing(s)	03

**Marks:**

<b>MODEL NUMBER:</b>	<b>5CD184VA085B006</b>	<b>Enclosure Mtg Assem:</b>	36A167770AA001
<b>Outline Drawing:</b>	36A167945AA002	<b>Instruction Book:</b>	GEH-3967N
<b>Connection Diagram:</b>	36A167760CB501	<b>RPM:</b>	1150/2000
<b>Horsepower:</b>	25	<b>Armature Amps:</b>	89.6
<b>Armature Volts:</b>	240	<b>Type:</b>	CD328AT
<b>Wound:</b>	SHUNT	<b>Power Supply Code:</b>	D
<b>Enclosure:</b>	DPFG	<b>Insulation Class:</b>	F
<b>Duty:</b>	CONT	<b>Ambient Max (°C):</b>	40 C
<b>Rating Code:</b>	184V1150-02	<b>Field Volts:</b>	300/150
<b>K(V):</b>	1.76 Cemf volts/Radian/Sec	<b>WK2:</b>	9.67Lb Ft2
<b>K(T):</b>	1.27 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>	113 OHMS
<b>Armature:</b>	.154 OHMS
<b>Commutator Field:</b>	.0446 OHMS

**Inductances:**

<b>Armature Circuit Total:</b>	5.150 mH Saturated
<b>Shunt Field:</b>	91.0 Henries Unsaturated

**Shunt Field Data:**

Shunt Field Current(1): 1.89 AMPS at Rated Load and 1150 RPM  
 Shunt Field Current(2): 1.51 AMPS at Rated Load and 1433 RPM  
 Shunt Field Current(3): 1.08 AMPS at Rated Load and 2000 RPM

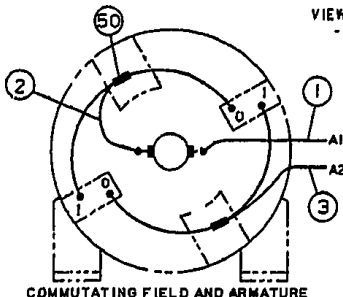
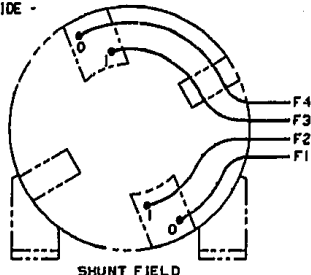
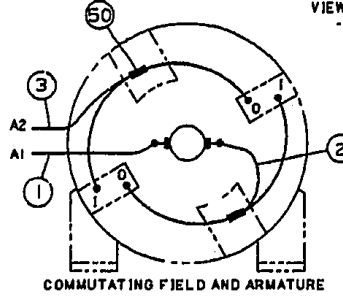
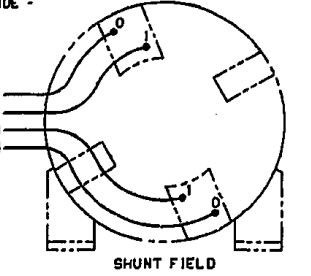
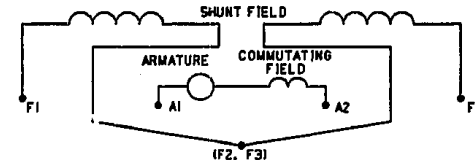
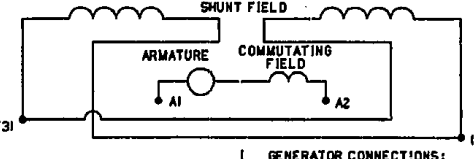
**Additional Machine Notes:**

DRIPPROOF FULLY GUARDED - 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.	GENERAL ELECTRIC	36A167760CB501	CONT ON SHEET SH NO.
REV 2	TITLE	36A167760CB501	
36A167760CB501	CONNECTION DIAGRAM		
CONT ON SHEET	SH NO.	FIRST MADE FOR 2 POLE	
DIRECT CURRENT MOTOR AND GENERATOR - SHUNT WOUND 1 OR 2 CIRCUIT SHUNT FIELD - 2 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></p> <p>FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A1 THE SAME POLARITY.</p> <p>FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A2 THE SAME POLARITY.</p>		<p><b>GENERATOR CONNECTIONS:</b></p> <p>FOR CW ROTATION FACING COMMUTATOR END, F1 POSITIVE WILL MAKE A2 POSITIVE.</p> <p>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></p> <p>FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1,F3) &amp; A1 THE SAME POLARITY.</p> <p>FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1,F3) &amp; A2 THE SAME POLARITY.</p>		<p><b>GENERATOR CONNECTIONS:</b></p> <p>FOR CW ROTATION FACING COMMUTATOR END, (F1,F3) POSITIVE WILL MAKE A2 POSITIVE.</p> <p>FOR CCW ROTATION FACING COMMUTATOR END, (F1,F3) POSITIVE WILL MAKE A1 POSITIVE.</p>	
2	10-11-94 R.D.BOLLA	NO S.O. RETR	QC(1) CAD
<p>MADE BY P.HARABEDIAN 3-19-69</p> <p>RE-ISSUED CAD/ R.D.BOLLA 10-11-94</p>		FILE KC13-1	<p>GE MOTORS DIV OR DEPT</p> <p>ERIE LOCATION</p>
		36A167760CB501	
		CONT ON SHEET	SH NO.

002-281 (2-15-67)

C5X.A.36A167760CB501R02

