

Product Information Packet

November 7, 2016

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

Model Number:	5CD223MA051B038
Catalog Number:	D613
Instruction Manual:	GEH-3967N
Connection Diagram:	36A167910CA502
Outline Drawing:	36A167939AA001

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5CD223MA051B038	Enclosure Mtg Assem:	36A167775AC001
Outline Drawing:	36A167939AA001	Instruction Book:	GEH-3967N
Connection Diagram:	36A167910CA502	RPM:	850/1700
Horsepower:	125	Armature Amps:	203
Armature Volts:	500	Type:	CD506AT
Wound:	SHUNT	Power Supply Code:	C
Enclosure:	DPFG-SV	Insulation Class:	F
Duty:	CONT	Ambient Max (°C):	40 C
Rating Code:	223M1140-07	Field Volts:	300/150
K(V):	5.26 Cemf volts/Radian/Sec	WK2:	99.00Lb Ft2
K(T):	3.80 Ft/Amp	Year of Manufacture:	2016
Minimum Ambient:	0 C	Max Altitude:	3300 Ft

Resistances at 25 Degrees C :

Shunt Field:	66.8 OHMS
Armature:	.0872 OHMS
Commutator Field:	.0240 OHMS

Inductances:

Armature Circuit Total:	4.400 mH Saturated
Shunt Field:	75.0 Henries Unsaturated

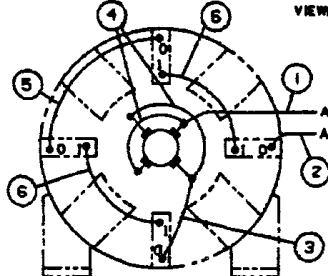
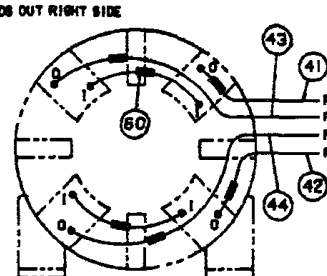
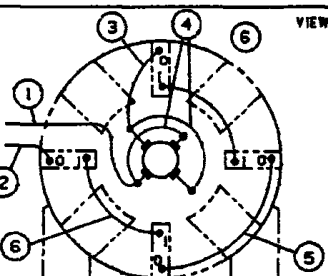
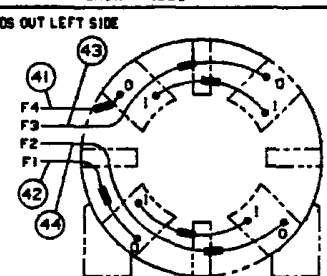
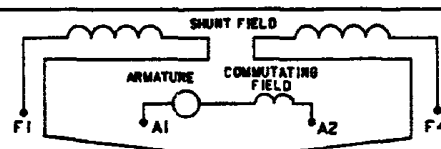
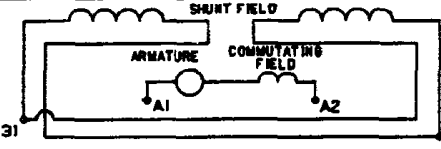
Shunt Field Data:

Shunt Field Current(1): 3.7 AMPS at Rated Load and 850 RPM
 Shunt Field Current(2): 2.67 AMPS at Rated Load and 1133 RPM
 Shunt Field Current(3): 1.72 AMPS at Rated Load and 1700 RPM

Additional Machine Notes:

DRIPPROOF FULLY GUARDED, SEPARATELY VENTILATED
 - BALL BEARINGS
 CONDUIT BOX ON RIGHT HAND SIDE FACING COMMUTATOR END
 STANDARD SHAFT DRIVE END ONLY - WITH FEET
 SEPARATELY VENTILATED AT 1425 CFM
 PRESSURE DROP AT 3.0 INCHES OF WATER
 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	36A167910CA502 CONT ON SHEET SH NO.
36A167910CA502 CONT ON SHEET SH NO.	DIAGRAM, CONNECTION	
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>MOTOR CONNECTIONS: 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>GENERATOR CONNECTIONS: 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>MOTOR CONNECTIONS: FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1, F3) & A1 THE SAME POLARITY. FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1, F3) & A2 THE SAME POLARITY.</p> <p>GENERATOR CONNECTIONS: 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 ERIE
36A167910CA502 CONT ON SHEET SH NO.		DIV OR DEPT LOCATION

DC-28112-15-671

C5X.A.36A167910CA502R01

