

Product Information Packet

November 7, 2016

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

Model Number:	5CD174RA009A257
Catalog Number:	D446
Instruction Manual:	GEH-3967N
Connection Diagram:	36A167760CB501
Outline Drawing:	36A167944AA001

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:	5CD174RA009A257	Enclosure Mtg Assem:	36A167770AC001
Outline Drawing:	36A167944AA001	Instruction Book:	GEH-3967N
Connection Diagram:	36A167760CB501	RPM:	1750/2300
Horsepower:	30	Armature Amps:	50.4
Armature Volts:	500	Type:	CD288AT
Wound:	SHUNT	Power Supply Code:	D
Enclosure:	DPFG-SV	Insulation Class:	F
Duty:	CONT	Ambient Max (°C):	40
Rating Code:	174RA1250-00	Field Volts:	300/150
K(V):	2.47 Cemf volts/Radian/Sec	WK2:	5.36Lb Ft2
K(T):	1.79 Ft/Amp	Year of Manufacture:	2016
Minimum Ambient:	0 C	Max Altitude:	3300 Ft

Resistances at 25 Degrees C :

Shunt Field:	104.0 OHMS
Armature:	.5291 OHMS
Commutator Field:	.1493 OHMS

Inductances:

Armature Circuit Total:	12.980 mH Saturated
Shunt Field:	82.0 Henries Unsaturated

Shunt Field Data:

Shunt Field Current(1): 2.08 AMPS at Rated Load and 1750 RPM
Shunt Field Current(2): 1.65 AMPS at Rated Load and 1933 RPM
Shunt Field Current(3): 1.16 AMPS at Rated Load and 2300 RPM

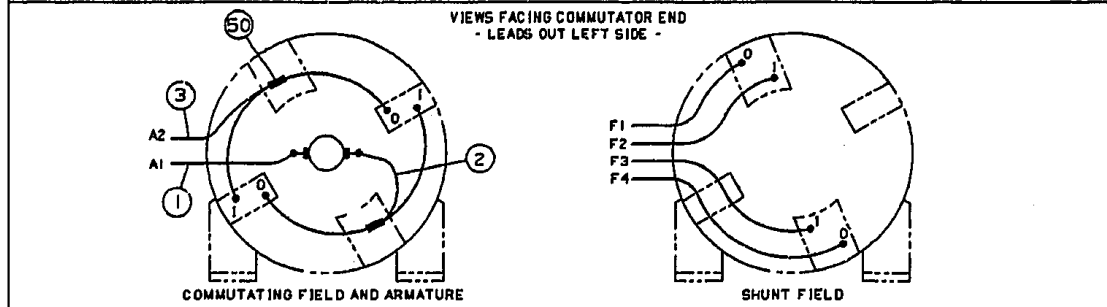
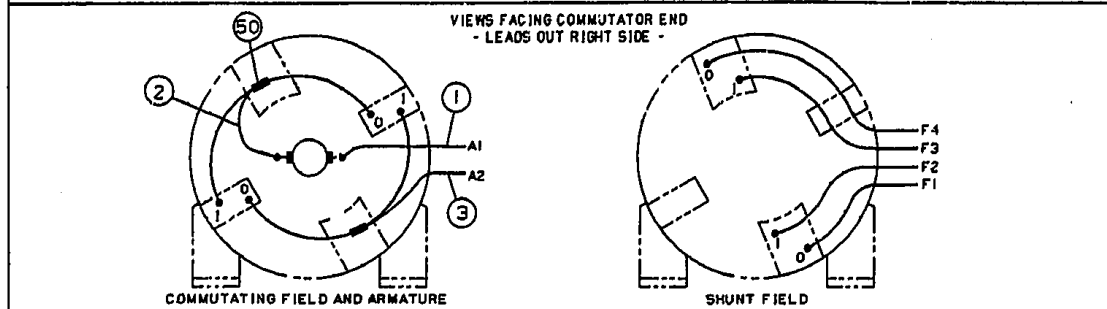
Additional Machine Notes:

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 270 CFM
PRESSURE DROP .54 INCHES OF WATER
WITH:
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:

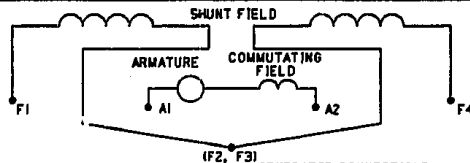
NO S.O.	GENERAL ELECTRIC	36A167760CB501 CONT ON SHEET SH NO.
REV 2 36A167760CB501 CONT ON SHEET SH NO.	CONNECTION DIAGRAM	
FIRST MADE FOR 2 POLE		

**DIRECT CURRENT MOTOR AND GENERATOR - SHUNT WOUND
1 OR 2 CIRCUIT SHUNT FIELD - 2 CIRCUIT COMMUTATING FIELD**



ALL EXTERNAL LEADS ARE MARKED. ALL CONNECTIONS AND TERMINATIONS EXTERNAL TO MAGNET FRAME MUST BE INSULATED PER NATIONAL ELECTRICAL CODE AND SOUND LOCAL PRACTICES.
 SPACE HEATERS, WHEN SPECIFIED, WILL HAVE LEADS WITH TERMINAL MARKINGS H1 AND H2.
 THERMOSTAT, WHEN SPECIFIED, WILL HAVE LEADS WITH TERMINAL MARKINGS P1 AND P2.
 ENCIRCLED NUMBERS MAY BE USED FOR PART IDENTIFICATION.

FOR HIGH NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED



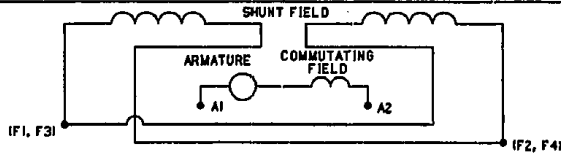
MOTOR CONNECTIONS:

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.

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.

FOR LOW NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED



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.

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.

DC2-281 (2-15-67)

2	10-11-94 R.D.BOLLA	NO S.O. RETR		QC(1) CAD
MADE BY P.HARABEDIAN 3-19-69		FILE KC13-1	GE MOTORS ERIE	DIV OR DEPT LOCATION
RE-ISSUED CAD/ R.D.BOLLA 10-11-94		36A167760CB501 CONT ON SHEET SH NO.		

C5X.A.36A167760CB501R02