GE
Power Conversion

Product Information Packet

November 7, 2016

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

Model Number:	**5CD163KA009A134**
Catalog Number:	**D433**
Instruction Manual:	GEH-3967
Connection Diagram:	36A167760CA501
Outline Drawing:	36A167933AA001

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

Table of Contents

Specification	01
Outline Drawing	02
Connection Drawing(s)	03

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Marks:

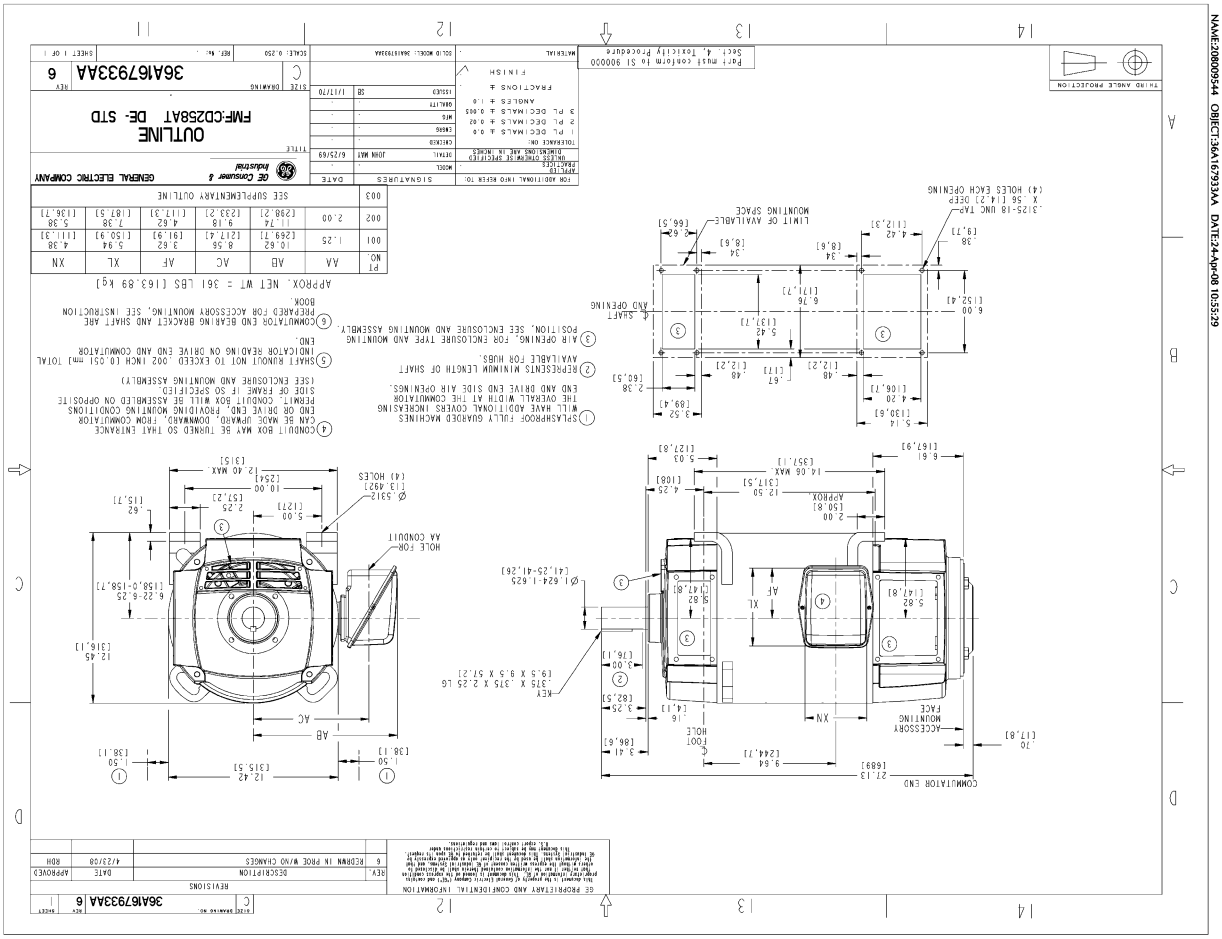
MODEL NUMBER:	**5CD163KA009A134**	**Enclosure Mtg Assem:**	36A167770AC001
Outline Drawing:	36A167933AA001	**Instruction Book:**	GEH-3967
Connection Diagram:	36A167760CA501	**RPM:**	1750/2300
Horsepower:	15	**Armature Amps:**	25.2
Armature Volts:	500	**Type:**	CD258AT
Wound:	SHUNT	**Power Supply Code:**	D
Enclosure:	DPFG-SV	**Insulation Class:**	F
Duty:	CONT	**Ambient Max (°C):**	40 C
Rating Code:	163K1340-00	**Field Volts:**	300/150
K(V):	2.46 Cemf volts/Radian/Sec	**WK2:**	2.91Lb Ft2
K(T):	1.79 Ft/Amp	**Year of Manufacture:**	2016
Minimum Ambient:	0 C	**Max Altitude:**	3300 Ft

Resistances at 25 Degrees C :		**Inductances:**	
Shunt Field:	135 OHMS	**Armature Circuit Total:**	23.580 mH Saturated
Armature:	1.0829 OHMS	**Shunt Field:**	93.0 Henries Unsaturated
Commutator Field:	.3255 OHMS		

Shunt Field Data:

Shunt Field Current(1): 1.6 AMPS at Rated Load and 1750 RPM
Shunt Field Current(2): 1.26 AMPS at Rated Load and 1933 RPM
Shunt Field Current(3): .88 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 160 CFM
PRESSURE DROP AT .45 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.



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Marks:

Model Number: 5CD163KA009A134	November 7, 2016

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NO S.O. [redacted] 36A167760CA 501

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36A167760CA 501

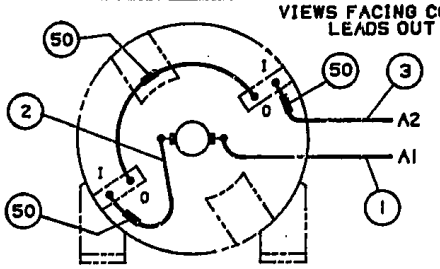
CONT ON SHEET SH NO.

CONNECTION DIAGRAM

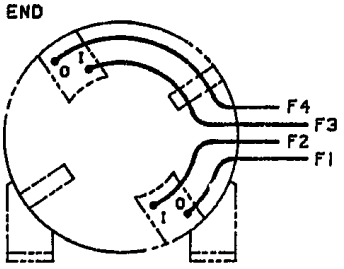
FIRST MADE FOR 2 POLE

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

VIEWS FACING COMMUTATOR END
LEADS OUT RIGHT SIDE

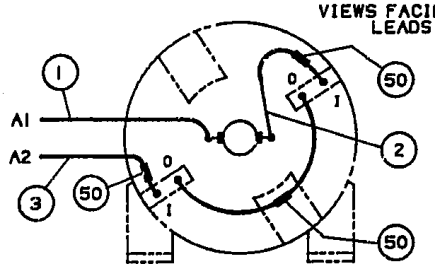


COMMUTATING FIELD AND ARMATURE

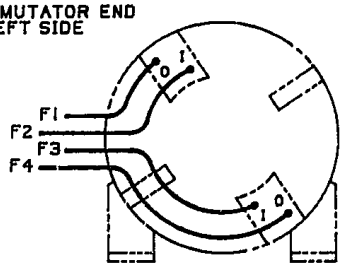


SHUNT FIELD

VIEWS FACING COMMUTATOR END
LEADS OUT LEFT SIDE



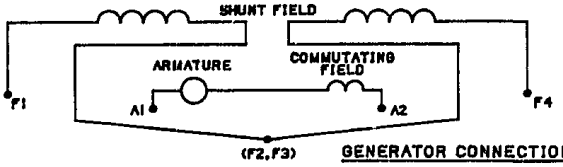
COMMUTATING FIELD AND ARMATURE



SHUNT 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



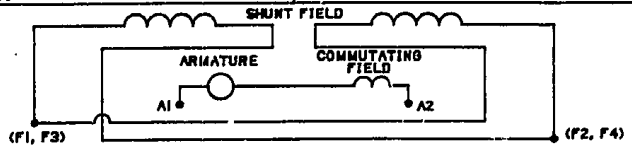
MOTOR CONNECTIONS:

FOR CCW ROTATION FACING COMM END, MAKE LEADS F1 AND A1 THE SAME POLARITY.
FOR CW ROTATION FACING COMM END, MAKE LEADS F1 AND A2 THE SAME POLARITY.

GENERATOR CONNECTIONS:

FOR CW ROTATION FACING COMM END, F1 POSITIVE WILL MAKE A2 POSITIVE.
FOR CCW ROTATION FACING COMM END, F1 POSITIVE WILL MAKE A1 POSITIVE.

FOR LOW NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED



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.

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 A1 POSITIVE.

DC2-281 (2-15-67)

1	JAN. 7, 1981 NO S.O. RETRACED NO CHANGE	4101-4w 4943-3w 4252-1w 4240-1w 4487-25w 4190-25w 4911-1w	CAD
MADE BY P. HARABEDIAN 3-19-69	FILE KC13-1	DIRECT CURRENT MOTOR & GENERATOR / DIV OR DEPT	36A167760CA 501
RE- ISSUED CAD JAN 7, 1981		ERIE LOCATION	CONT ON SHEET SH NO.

DGRM.36A167760CA501R01
PLT .64 SCL

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