

Product Information Packet

November 7, 2016

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

Model Number:	5CD144MA020B073
Catalog Number:	D530
Instruction Manual:	GEH-3967N
Connection Diagram:	36A167960CA501
Outline Drawing:	36A167921AA003

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: 5CD144MA020B073
Outline Drawing: 36A167921AA003
Connection Diagram: 36A167960CA501
Horsepower: 3
Armature Volts: 240
Wound: SHUNT
Enclosure: TENV
Duty: CONT
Rating Code: 144MB1320-12
K(V): 1.22 Cemf volts/Radian/Sec
K(T): .83 Ft/Amp
Minimum Ambient: 0 C

Enclosure Mtg Assem: 36A167772CD201
Instruction Book: GEH-3967N
RPM: 1750/2300
Armature Amps: 10.8
Type: CDL186AT
Power Supply Code: D
Insulation Class: F
Ambient Max (°C): 40
Field Volts: 300/150
WK2: .67Lb Ft2
Year of Manufacture: 2016
Max Altitude: 3300 Ft

Resistances at 25 Degrees C :

Shunt Field: 759 OHMS
Armature: .7472 OHMS
Commutator Field: .3898 OHMS

Inductances:

Armature Circuit Total: 25.52 mH Saturated
Shunt Field: 458 Henries Unsaturated

Shunt Field Data:

Shunt Field Current(1): .29 AMPS at Rated Load and 1750 RPM
 Shunt Field Current(2): .23 AMPS at Rated Load and 1933 RPM
 Shunt Field Current(3): .17 AMPS at Rated Load and 2300 RPM

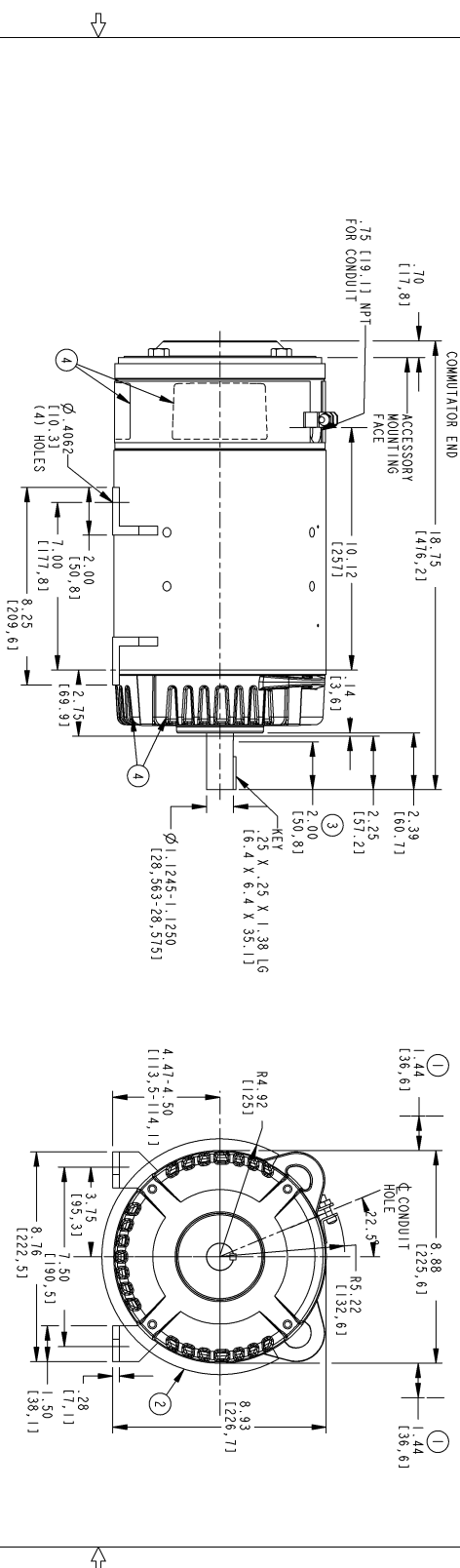
Additional Machine Notes:

TOTALLY ENCLOSED NON VENTILATED- BALL BEARINGS
 STANDARD SHAFT DRIVE END - ACESSORY SHAFT COMMUTATOR END-
 SHAFT COVER OVER COMMUTATOR SHAFT EXTENSION
 WITH FEET
 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

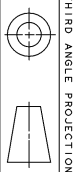


NAME:208009544 OBJECT:36A167921AA003 DATE:12-Feb-08 13:24:00

Marks:



- ① SPLASHPROOF, FULLY GUARDED MACHINES WILL HAVE ADDITIONAL COVERS INCREASING THE OVERALL WIDTH AT THE COMPARATOR END AND DRIVE END SIDE AIR OPENINGS.
- ② DRIEPROOF, FULLY GUARDED VERTICAL DRIVE END SHAFT DOWN MACHINES WILL HAVE ADDITIONAL COVERS INCREASING THE OVERALL WIDTH AND EXCEEDING BOTTOM OF MOUNTING FEET AT THE COMPARATOR END OPENINGS.
- ③ REPRESENTS MINIMUM LENGTH OF SHAFT AVAILABLE FOR HUBS.
- ④ AIR OPENINGS, FOR ENCLOSURE TYPE AND MOUNTING POSITION, SEE ENCLOSURE AND MOUNTING ASSEMBLY. TOTALLY ENCLOSED MACHINES WILL NOT HAVE OPENINGS OR COVERS ON DRIVE END.
- ⑤ SHAFT ROUNDOFF NOT TO EXCEED .002 (0.051 mm) INCH TOTAL INDICATOR READING.



THIRD ANGLE PROJECTION

Part must conform to SI 900000
Sect. 4, Toxicity Procedure

TWIN

SOLID MODEL: 36A167921AA003

SCALE: 0.

0	REF. No:
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SHEET 1 of 1

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SIZE	B	DRAWING NO.	
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36A167921AA003

SHEET

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
4	REDRAWN IN POE W/CHANGES UNTABULATED DMG.	2/12/08	RDH

APPROX. NET WT. = 104 LBS.

 GE Consumer & Industrial **GENERAL ELECTRIC COMPANY**

TITLE	OUTLINE
CE - ACS DE- NEMA AT	

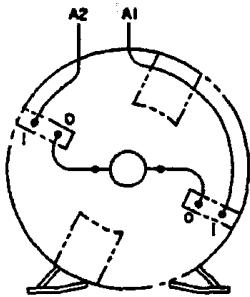
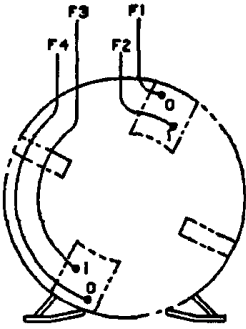
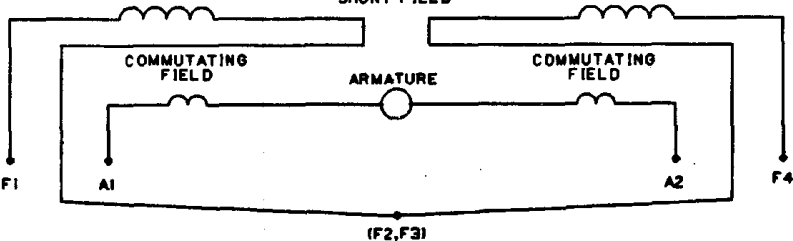
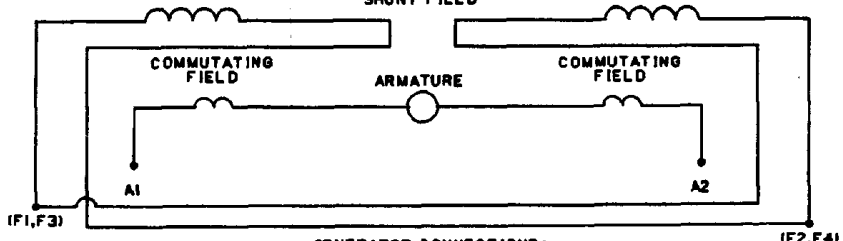
SIZE	DRAWING	REV

SCALE: 0.250	REF. No: .	SHEET 1 of 1
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Marks:

GENERAL ELECTRIC		36A167960CA501 CONT ON SHEET SH NO.
NO S.O. REV 1	TITLE CONNECTION DIAGRAM	
36A167960CA501 CONT ON SHEET	SH NO. FIRST MADE FOR 180AT 2 POLE	
DIRECT CURRENT MOTOR AND GENERATOR - SHUNT WOUND 1 OR 2 CIRCUIT SHUNT FIELD, 1 CIRCUIT COMMUTATING FIELD		
VIEWS FACING COMMUTATOR END		
 <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 style="text-align: center;">SHUNT FIELD</p>  <p style="text-align: center;">(F2, F3)</p> <p>FOR HIGH NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p>		
<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 style="text-align: center;">SHUNT FIELD</p>  <p style="text-align: center;">(F1, F3) (F2, F4)</p> <p>FOR LOW NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p>		
<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 A1 POSITIVE.</p>		
<p>94-10-12 NO S.O. DC HILL RETRACED</p>		
MADE BY N STEWART 75-08-05	APPROVALS FILE KC13-1	GE MOTORS ERIE
RE-ISSUED CAD/DC Hill 94-10-12	DIV OR DEPT LOCATION	36A167960CA501 CONT ON SHEET SH NO.

C5X.A.36A167960CA501R01

ORIGINAL FRACING

4943/31 4487 CAD



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