

Product Information Packet

October 6, 2016

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

Model Number:	5CD144FA002B020
Catalog Number:	D407
Instruction Manual:	GEH-3967
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:	5CD144FA002B020
Outline Drawing:	36A167921AA003
Connection Diagram:	36A167960CA501
Horsepower:	5
Armature Volts:	500
Wound:	SHUNT
Enclosure:	DPFG
Duty:	CONT
Rating Code:	144F1340-09
K(V):	2.50 Cemf volts/Radian/Sec
K(T):	1.76 Ft/Amp
Minimum Ambient:	0 C

Enclosure Mtg Assem:	36A167770CA201
Instruction Book:	GEH-3967
RPM:	1750/2300
Armature Amps:	8.5
Type:	CDL186AT
Power Supply Code:	C
Insulation Class:	F
Ambient Max (°C):	40 C
Field Volts:	300/150
WK2:	.67Lb Ft2
Year of Manufacture:	2016
Max Altitude:	3300 Ft

<u>Resistances at 25 Degrees C :</u>	
Shunt Field:	299 OHMS
Armature:	2.3229 OHMS
Commutator Field:	1.2009 OHMS

<u>Inductances:</u>	
Armature Circuit Total:	80.290 mH Saturated
Shunt Field:	179.0 Henries Unsaturated

Shunt Field Data:

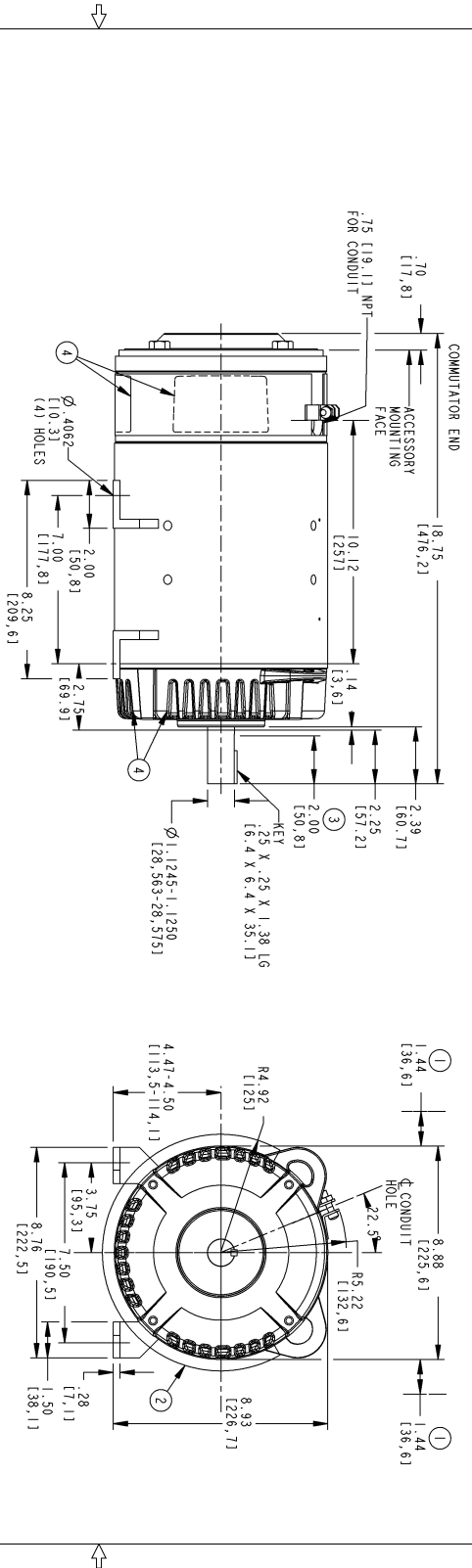
Shunt Field Current(1): .72 AMPS at Rated Load and 1750 RPM
 Shunt Field Current(2): .58 AMPS at Rated Load and 1933 RPM
 Shunt Field Current(3): .42 AMPS at Rated Load and 2300 RPM

Additional Machine Notes:

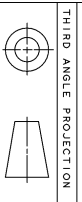
DRIPPROOF FULLY GUARDED - BALL BEARINGS
 STANDARD SHAFT DRIVE END ONLY - WITH FEET
 WITH:
 CSA STAMP
 THERMOSTAT- NORMALLY CLOSED, AC RATING- 600V MAX-
 .5A, 250V-1.5A, OR 125V-3A, DC RATING- 30V MAX-
 1.5A. MAXIMUM CURRENT BASED ON INDUCTIVE LOADS UP
 TO AND INCLUDING NEMA NO.5 CONTACTOR.

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

Marks:



- ① SPLASPROOF FULLY GUARDED MACHINES WILL HAVE ADDITIONAL COVERS INCREASING THE OVERALL WIDTH AT THE COMMUTATOR END AND DRIVE END SIDE AIR OPENINGS.
- ② DRIPPROOF FULLY GUARDED VERTICAL DRIVE END SHAFT DOWN MACHINES WILL HAVE ADDITIONAL COVERS INCREASING THE OVERALL WIDTH AND EXCEEDING BOTTOM OF MOUNTING FEET AT THE COMMUTATOR 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

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
APPLICABLE PRACTICES	MOORE	
DIMENSIONS ARE IN INCHES	P. WHEELER	3/2/08
TOLERANCE ON: 1 PL. DECIMALS ± .005 2 PL. DECIMALS ± .002 3 PL. DECIMALS ± .001	CHECKED	
ANGLES ± 1.0	ENG	
FINISH	QUALITY	
	ISSUED	8. HARRIS / ZIZM
MATERIAL	SOLID MODEL: 36A167921AA003	

APPROX. NET WT. = 104 LBS.

GE Consumer & Industrial
GENERAL ELECTRIC COMPANY

OUTLINE
CE - ACS DE - NEMA AT
FME-CDBOAT

36A167921AA003
REV 4

SHEET 1 of 1

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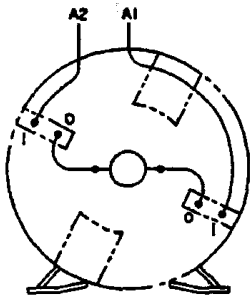
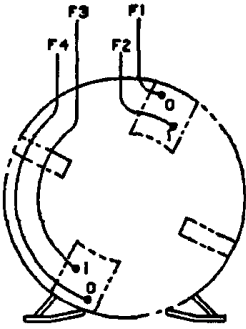
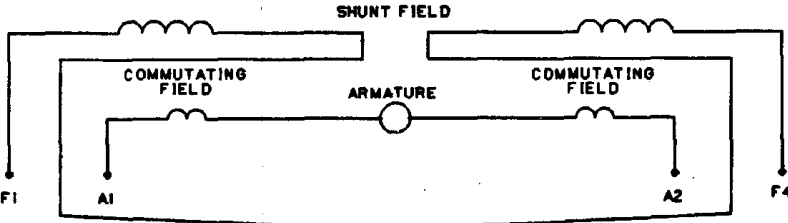
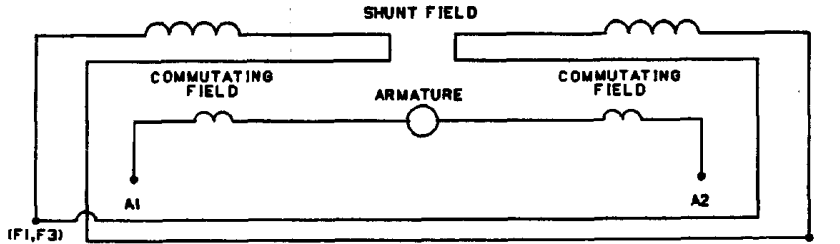
REV.	DESCRIPTION	DATE	APPROVED
4	REDRAWN IN PROOF W/CHANGES UNTABULATED DWG.	2/12/08	RDH

36A167921AA003 4

SIZE DRAWING NO. B

REV SHEET

Marks:

NO S.O.	GENERAL ELECTRIC	36A167960CA501 CONT ON SHEET	SH NO.	
REV 1 36A167960CA501 CONT ON SHEET	TITLE CONNECTION DIAGRAM			
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>			
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 A2 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.			
94-10-12 NO S.O. DC HILL RETRACED	MADE BY N STEWART 75-08-05 RE-ISSUED CAD/DC Hill 94-10-12	APPROVALS FILE KC13-1	GE MOTORS ERIE DIV OR DEPT LOCATION	36A167960CA501 CONT ON SHEET SH NO.

ORIGINAL FRACING

49-3131 4487 CAD

C5X.A.36A167960CA501R01