

Product Information Packet

November 7, 2016

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

Model Number:	5CD143BA012B038
Catalog Number:	D588
Instruction Manual:	GEH-3967N
Connection Diagram:	36A167960CA501
Outline Drawing:	36A167921AA002

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:	5CD143BA012B038	Enclosure Mtg Assem:	36A167770CA201
Outline Drawing:	36A167921AA002	Instruction Book:	GEH-3967N
Connection Diagram:	36A167960CA501	RPM:	1750/2300
Horsepower:	3	Armature Amps:	5.1
Armature Volts:	500	Type:	CD186AT
Wound:	SHUNT	Power Supply Code:	D
Enclosure:	DPFG	Insulation Class:	F
Duty:	CONT	Ambient Max (°C):	40 C
Rating Code:	143B1330-14	Field Volts:	300/150
K(V):	2.49 Cemf volts/Radian/Sec	WK2:	.45Lb Ft2
K(T):	1.76 Ft/Amp	Year of Manufacture:	2016
Minimum Ambient:	0 C	Max Altitude:	3300 Ft

Resistances at 25 Degrees C :

Shunt Field:	390 OHMS
Armature:	4.0170 OHMS
Commutator Field:	2.0444 OHMS

Inductances:

Armature Circuit Total:	122.700 mH Saturated
Shunt Field:	196.0 Henries Unsaturated

Shunt Field Data:

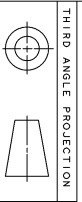
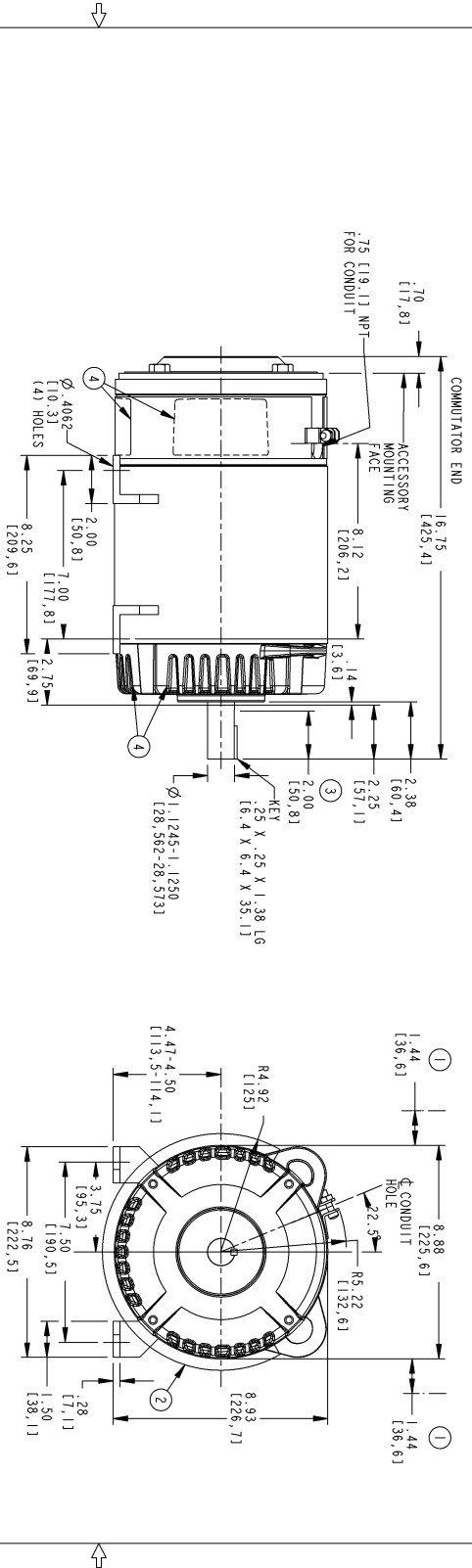
Shunt Field Current(1): .55 AMPS at Rated Load and 1750 RPM
 Shunt Field Current(2): .43 AMPS at Rated Load and 1933 RPM
 Shunt Field Current(3): .3 AMPS at Rated Load and 2300 RPM

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:36A167921AA002 DATE:31-Mar-08 14:48:06

Marks:



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

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
DETAIL	P. BIELETT	3/27/08
CHECKED		
DATE		
QUALITY	J. H. LUCE	12/08

GE Consumer & Industrial
GENERAL ELECTRIC COMPANY
OUTLINE
FM-CD186AT DE-NEMA AT CE-ACS
36A167921AA002
REV 4

REV.	DESCRIPTION	DATE	APPROVED
4	REDRAWN IN PROE W/NO CHANGES	3/31/08	RDH

APPROX. NET WT. = 104 LBS.
SCALE: 0.250 REF. No: .
SHEET 1 OF 1

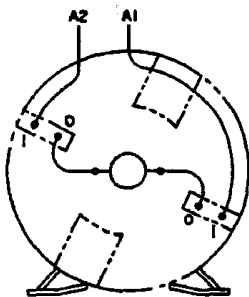
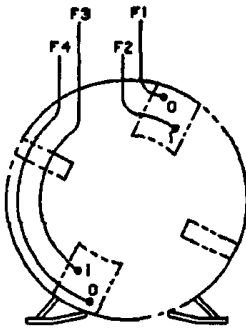
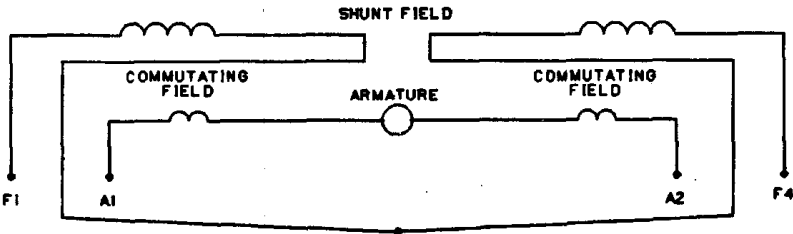
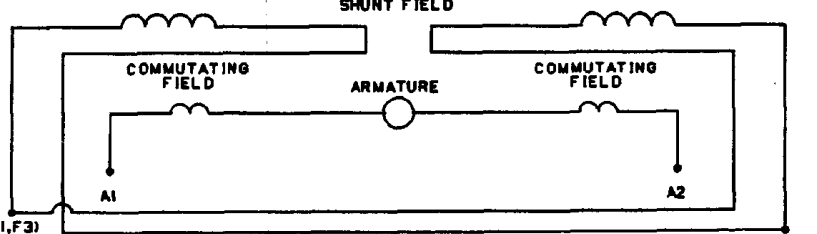


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36A167921AA002 4

SIZE DRAWING NO. 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
DISTR TO

C5X.A.36A167960CA501R01