

# Product Information Packet

October 6, 2016

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

<b>Model Number:</b>	<b>5CD144PA002B055</b>
<b>Catalog Number:</b>	<b>D409</b>
<b>Instruction Manual:</b>	GEH-3967
<b>Connection Diagram:</b>	36A167960CA501
<b>Outline Drawing:</b>	36A167921AA003

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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Marks:

<b>MODEL NUMBER:</b>	<b>5CD144PA002B055</b>	<b>Enclosure Mtg Assem:</b>	36A167770CA201
<b>Outline Drawing:</b>	36A167921AA003	<b>Instruction Book:</b>	GEH-3967
<b>Connection Diagram:</b>	36A167960CA501	<b>RPM:</b>	1750/2300
<b>Horsepower:</b>	5	<b>Armature Amps:</b>	18
<b>Armature Volts:</b>	240	<b>Type:</b>	CDL186AT
<b>Wound:</b>	SHUNT	<b>Power Supply Code:</b>	D
<b>Enclosure:</b>	DPFG	<b>Insulation Class:</b>	F
<b>Duty:</b>	CONT	<b>Ambient Max (°C):</b>	40 C
<b>Rating Code:</b>	144P1330-01	<b>Field Volts:</b>	300/150
<b>K(V):</b>	1.19 Cemf volts/Radian/Sec	<b>WK2:</b>	.67Lb Ft2
<b>K(T):</b>	.83 Ft/Amp	<b>Year of Manufacture:</b>	2016
<b>Minimum Ambient:</b>	0 C	<b>Max Altitude:</b>	3300 Ft

Resistances at 25 Degrees C :

<b>Shunt Field:</b>	477 OHMS
<b>Armature:</b>	.5937 OHMS
<b>Commutator Field:</b>	.3005 OHMS

Inductances:

<b>Armature Circuit Total:</b>	20.070 mH Saturated
<b>Shunt Field:</b>	284.0 Henries Unsaturated

Shunt Field Data:

Shunt Field Current(1): .45 AMPS at Rated Load and 1750 RPM  
 Shunt Field Current(2): .37 AMPS at Rated Load and 1933 RPM  
 Shunt Field Current(3): .27 AMPS at Rated Load and 2300 RPM

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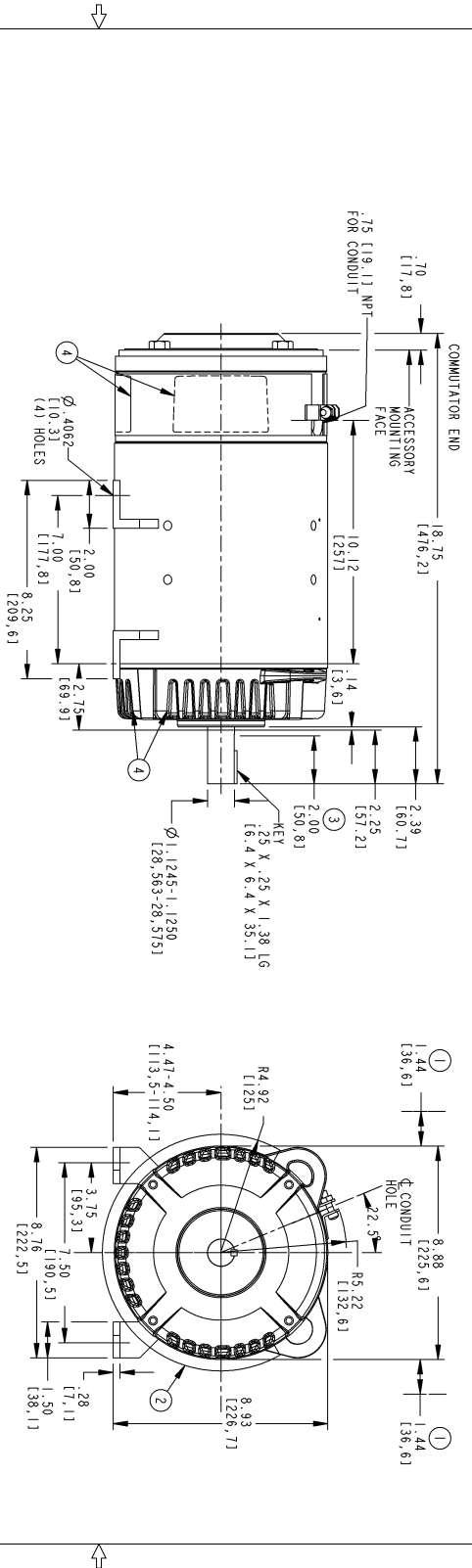
Additional Machine Notes:

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.

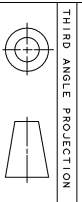


NAME:208009544 OBJECT:36A167921AA003 DATE:12-Feb-08 13:24:00

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. DIMENSIONS ± .005 2. PL. DIMENSIONS ± .005 3. PL. DIMENSIONS ± .005	CHECKED	
ANGLES ± 1.0	ENG	
FINISH	QUALITY	
	ISSUED	8. HARRIS / ZIZOH
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



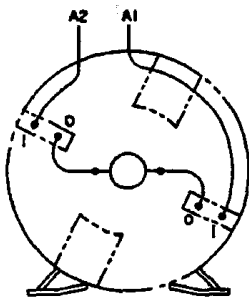
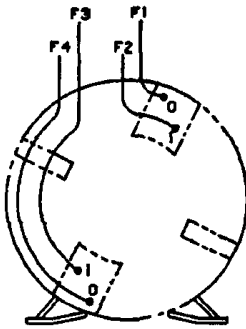
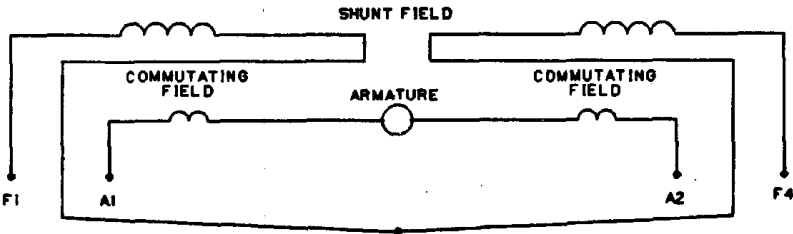
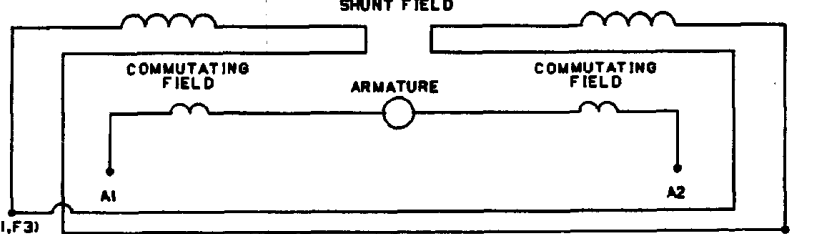
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REV.	DESCRIPTION	DATE	APPROVED
4	REDRAWN IN PROOF W/CHANGES UNTABULATED DWG.	2/12/08	RDH

REVISIONS

Marks:

NO S.O.	<b>GENERAL ELECTRIC</b>	36A167960CA501 CONT ON SHEET	SH NO.
REV 1 36A167960CA501 CONT ON SHEET	<b>TITLE</b> <b>CONNECTION DIAGRAM</b>		
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	 <p style="text-align: center;">(F2,F3)</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.	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	 <p style="text-align: center;">(F1,F3) (F2,F4)</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.	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