

# Product Information Packet

November 7, 2016

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

<b>Model Number:</b>	<b>5CD142DA036B024</b>
<b>Catalog Number:</b>	<b>D681</b>
<b>Instruction Manual:</b>	GEH-3967N
<b>Connection Diagram:</b>	36A167960CA501
<b>Outline Drawing:</b>	36A167921AA001

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		

Table of Contents	
Specification	01
Outline Drawing	02
Connection Drawing(s)	03

Marks:

<b>MODEL NUMBER:</b>	5CD142DA036B024	<b>Enclosure Mtg Assem:</b>	36A167772CD201
<b>Outline Drawing:</b>	36A167921AA001	<b>Instruction Book:</b>	GEH-3967N
<b>Connection Diagram:</b>	36A167960CA501	<b>RPM:</b>	1750/2300
<b>Horsepower:</b>	1	<b>Armature Amps:</b>	3.6
<b>Armature Volts:</b>	240	<b>Type:</b>	CDL182AT
<b>Wound:</b>	SHUNT	<b>Power Supply Code:</b>	C
<b>Enclosure:</b>	TENV	<b>Insulation Class:</b>	F
<b>Duty:</b>	CONT	<b>Ambient Max (°C):</b>	40 C
<b>Rating Code:</b>	142D1220-09	<b>Field Volts:</b>	300/150
<b>K(V):</b>	1.21 Cemf volts/Radian/Sec	<b>WK2:</b>	.28Lb 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>	619 OHMS
<b>Armature:</b>	2.5453 OHMS
<b>Commutator Field:</b>	1.0184 OHMS

Inductances:

<b>Armature Circuit Total:</b>	54.630 mH Saturated
<b>Shunt Field:</b>	197.0 Henries Unsaturated

Shunt Field Data:

Shunt Field Current(1): .35 AMPS at Rated Load and 1750 RPM  
 Shunt Field Current(2): .29 AMPS at Rated Load and 1933 RPM  
 Shunt Field Current(3): .22 AMPS at Rated Load and 2300 RPM

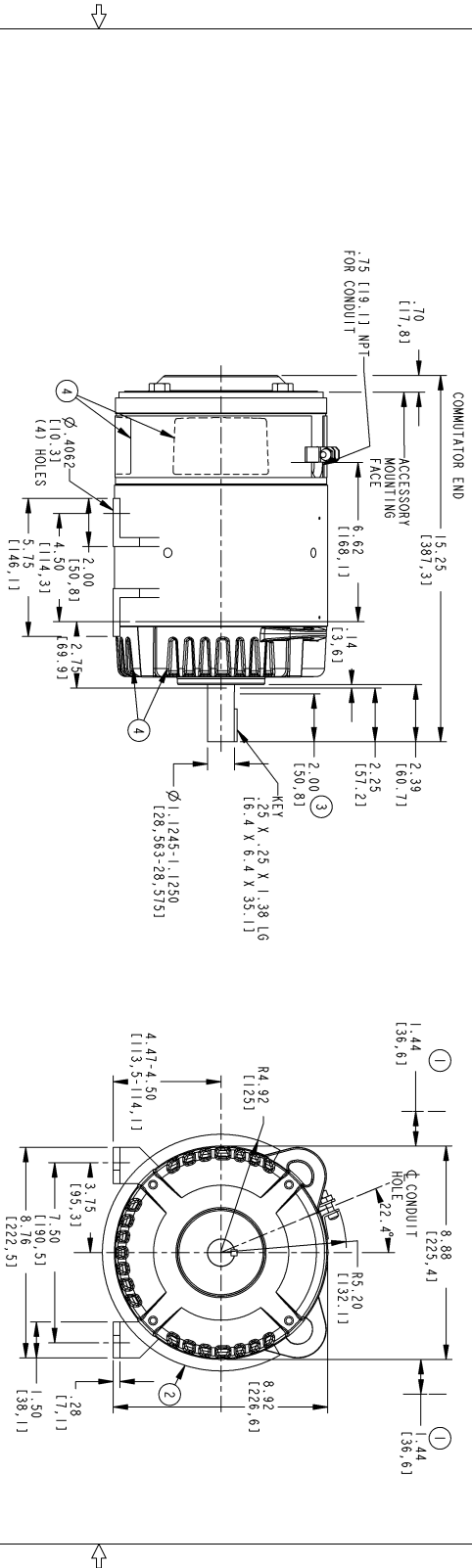
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Additional Machine Notes:

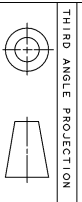
TOTALLY ENCLOSED NON VENTILATED - BALL BEARINGS  
 STANDARD SHAFT DRIVE END ONLY - WITH FEET  
 WITH:  
 CSA STAMP  
 THERMOSTAT- NORMALLY CLOSED, AC RATING- 600V MAX-  
 .5A, 250V-1.5A, OR 125V-3A, DC RATING- 30V MAX-  
 1.5A. MAXIMUM CURRENT BASED ON INDUCTIVE LOADS UP  
 TO AND INCLUDING NEMA NO.5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

NAME:208009544 OBJECT:36A167921AA001 DATE:12-Feb-08 13:08:48

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	
MATERIAL	ISSUED	8. HARRIS / ZIZOH
SOLID MODEL: 36A167921AA001		

APPROX. NET WT. = 104 LBS.



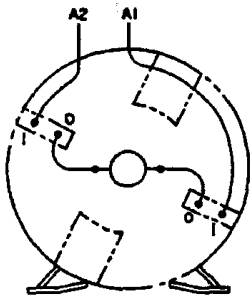
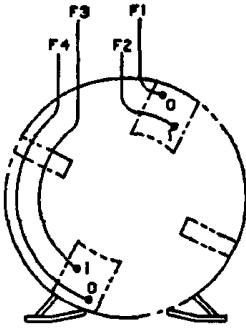
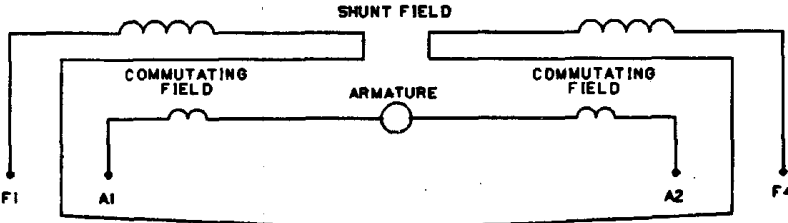
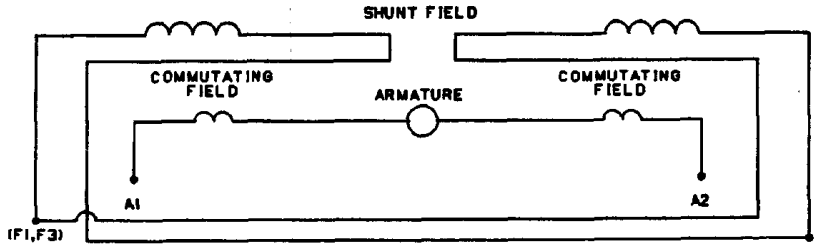
OUTLINE  
CE - ACS DE - NEMA AT  
FME-C080AT

SCALE: 0.250 REF. No: 36A167921AA001 REV 4 SHEET 1 of 1

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

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.
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		
		
COMMUTATING FIELD AND ARMATURE		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.</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>FOR HIGH NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p>		<p>(F2,F3)</p>
<p><b>MOTOR CONNECTIONS:</b> 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><b>GENERATOR CONNECTIONS:</b> 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>FOR LOW NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p>		<p>(F2,F4)</p>
<p><b>MOTOR CONNECTIONS:</b> 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><b>GENERATOR CONNECTIONS:</b> 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>	<p>MADE BY N STEWART 75-08-05</p> <p>RE-ISSUED CAD/DC Hill 94-10-12</p>	<p>APPROVALS FILE KC13-1</p> <p>GE MOTORS ERIE</p> <p>DIV OR DEPT LOCATION</p> <p>36A167960CA501 CONT ON SHEET SH NO.</p>

ORIGINAL FRACING

49-3131 4487 CAD  
DISTR TO

C5X.A.36A167960CA501R01