

Product Information Packet

November 7, 2016

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

Model Number:	5CD204RA068A048
Catalog Number:	D476
Instruction Manual:	GEH-3967N
Connection Diagram:	36A167910CA502
Outline Drawing:	36A167947AA003

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:	5CD204RA068A048	Enclosure Mtg Assem:	36A167775AA001
Outline Drawing:	36A167947AA003	Instruction Book:	GEH-3967N
Connection Diagram:	36A167910CA502	RPM:	1750/2000
Horsepower:	150	Armature Amps:	238
Armature Volts:	500	Type:	CD409AT
Wound:	SHUNT	Power Supply Code:	C
Enclosure:	DPFG	Insulation Class:	F
Duty:	CONT	Ambient Max (°C):	40 C
Rating Code:	204R1160-01	Field Volts:	300/150
K(V):	2.63 Cemf volts/Radian/Sec	WK2:	44.00Lb Ft2
K(T):	1.89 Ft/Amp	Year of Manufacture:	2016
Minimum Ambient:	0 C	Max Altitude:	3300 Ft

Resistances at 25 Degrees C :

Shunt Field:	55.7 OHMS
Armature:	.0376 OHMS
Commutator Field:	.0153 OHMS

Inductances:

Armature Circuit Total:	1.630 mH Saturated
Shunt Field:	35.0 Henries Unsaturated

Shunt Field Data:

Shunt Field Current(1): 3.8 AMPS at Rated Load and 1750 RPM
 Shunt Field Current(2): 3.62 AMPS at Rated Load and 1833 RPM
 Shunt Field Current(3): 3.3 AMPS at Rated Load and 2000 RPM

Additional Machine Notes:

DRIPPROOF FULLY GUARDED - BALL BEARINGS
 CONDUIT BOX ON RIGHT HAND SIDE FACING COMMUTATOR END
 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.

Marks:

36A167947AA
001 THRU 005

36A167947AA
001 THRU 005

36A167947AA
001 THRU 005

36A167947AA
001 THRU 005

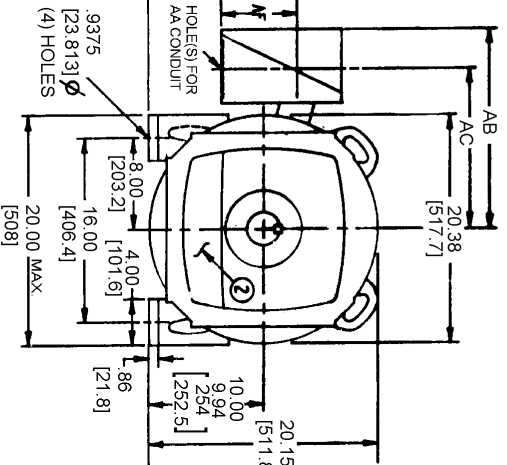
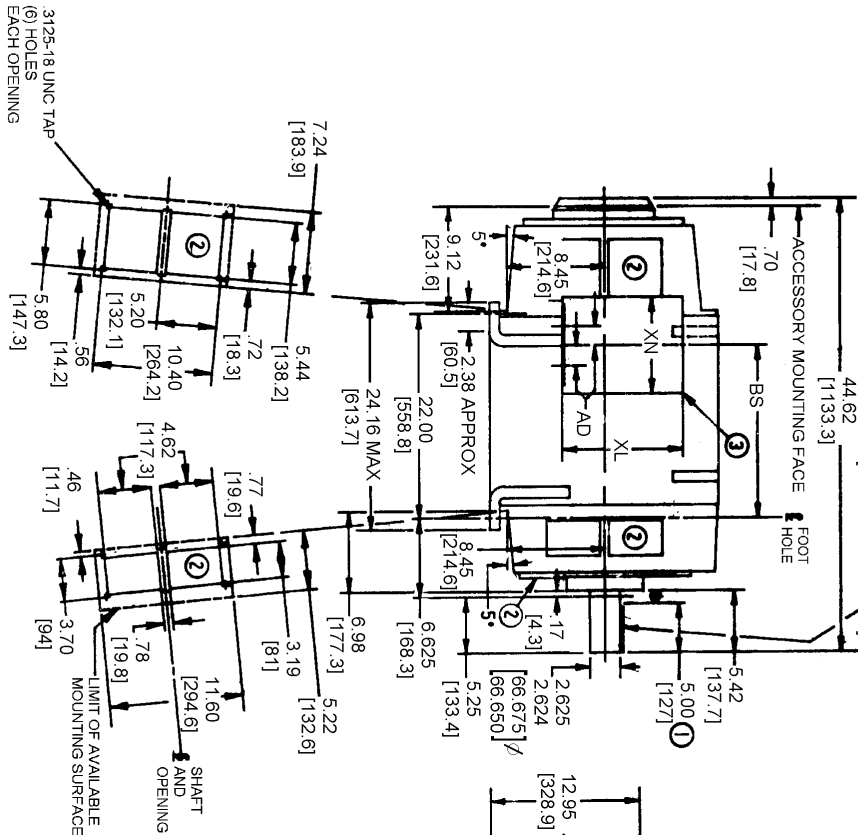
NO S.O.

GENERAL OUTLINE

OUTLINE
CREDIT NUMBER: 5CD204RA

36A167947AA
001 THRU 005

KEY
① .625 X .625 X 4.00 LG
② [15.9 X 15.9 X 101.6]



- ① REPRESENTS MINIMUM LENGTH OF SHAFT AVAILABLE FOR HUBS
- ② AIR OPENING, FOR ENCLOSURE TYPE AND MOUNTING POSITION, SEE ENCLOSURE AND MOUNTING ASSEMBLY
- ③ CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARD, DOWNWARD, FROM COMMUTATOR END OR DRIVE END, PROVIDING MOUNTING CONDITIONS PERMIT. CONDUIT BOX WILL BE ASSEMBLED ON OPPOSITE SIDE OF FRAME IF SO SPECIFIED. (SEE ENCLOSURE AND MOUNTING ASSEMBLY)
- ④ RUNOUT OF SHAFT DIAMETERS SHALL NOT EXCEED .003 (0.076 MM) TOTAL INDICATOR READING.
- ⑤ COMMUTATOR END BEARING BRACKET AND SHAFT ARE PREPARED FOR ACCESSORY MOUNTING. SEE INSTRUCTION BOOK.
- ⑥ 13.38 (339.9) X 13.31 (338.1) AVAILABLE DRILL SPACE.

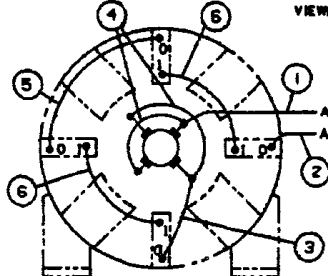
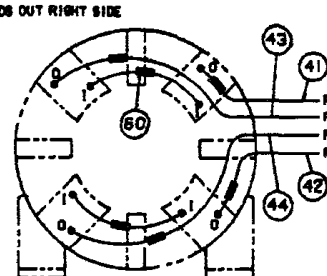
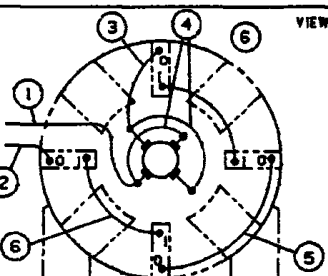
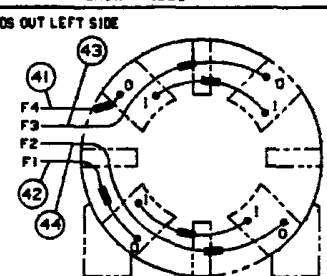
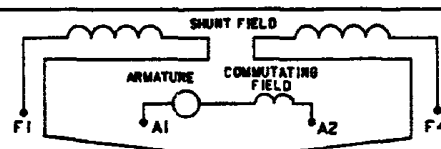
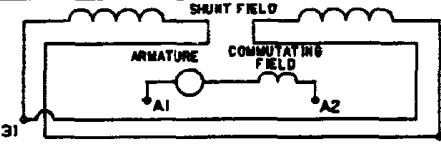
APPROX. NET WT.=1600 LBS. (726.40 KG)

PT NO.	AA	AB	AC	AC	AF	BS	XL	XN	PRINTS TO
001	3.00	17.47	14.00	6.62	19.68	10.50	8.56	8.62	36A167947AA
002	4.00	19.22	14.60	168.1	499.9	1266.7	1217.4	8.62	36A167947AA
003	(2) 4.00	20.12	16.37	215.9	499.9	1342.9	1218.9	13.50	36A167947AA
004	⑤ BLANK	24.76	---	171.5	439.4	1342.9	13.50	13.50	36A167947AA

SEE SUPPLEMENTARY OUTLINE

DATE: JUNE 23, 1971
 FILE: 40-18
 DIRECT CURRENT MOTOR & GENERATOR
 ERIE
 36A167947AA
 001 THRU 005
 PLAN REF 6255623
 1000 20406 28A167947AA000
 PLOT SCL.1:1111

Marks:

NO S.O.	GENERAL ELECTRIC	36A167910CA502 CONT ON SHEET SH NO.
REV 1 36A167910CA502 CONT ON SHEET SH NO.	DIAGRAM, CONNECTION	
FIRST MADE FOR 4 POLE (EW)		
DIRECT CURRENT MOTOR AND GENERATOR - SHUNT WOUND 1 OR 2 CIRCUIT SHUNT FIELD - 1 CIRCUIT COMMUTATING FIELD		
VIEWS FACING COMMUTATOR END - LEADS OUT RIGHT SIDE		
 <p>COMMUTATING FIELD AND ARMATURE</p>	 <p>SHUNT FIELD</p>	
VIEWS FACING COMMUTATOR END - LEADS OUT LEFT SIDE		
 <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>FOR HIGH NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>		
<p>MOTOR CONNECTIONS: FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A1 THE SAME POLARITY. FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A2 THE SAME POLARITY.</p> <p>GENERATOR CONNECTIONS: FOR CW ROTATION FACING COMMUTATOR END, F1 POSITIVE WILL MAKE A2 POSITIVE. FOR CCW ROTATION FACING COMMUTATOR END, F1 POSITIVE WILL MAKE A1 POSITIVE.</p>		
<p>FOR LOW NAMEPLATE EXCITATION VOLTAGE CONNECT SHUNT FIELD LEADS AS INDICATED</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div>		
<p>MOTOR CONNECTIONS: FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1, F3) & A1 THE SAME POLARITY. FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS (F1, F3) & A2 THE SAME POLARITY.</p> <p>GENERATOR CONNECTIONS: FOR CW ROTATION FACING COMMUTATOR END, (F1, F3) POSITIVE WILL MAKE A2 POSITIVE. FOR CCW ROTATION FACING COMMUTATOR END, (F1, F3) POSITIVE WILL MAKE A1 POSITIVE.</p>		
<p>08-30-94 DC HILL</p>	<p>NO S.O. RETRACTED</p>	CAD
<p>MADE BY WC HOVIS FEB. 16, 1972</p> <p>RE-ISSUED CAD/ DC Hill 8-30-94</p>	<p>FILE KC13-1</p>	<p>GE MOTORS ERIE</p>
<p>36A167910CA502 CONT ON SHEET SH NO.</p>		<p>DIV OR DEPT LOCATION</p>

DC-28112-16-671

C5X.A.36A167910CA502R01

