GE
Power Conversion

Product Information Packet

November 7, 2016

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

Model Number:	**5CD204PA107A141**
Catalog Number:	**D662**
Instruction Manual:	GEH-3967N
Connection Diagram:	36A167910CA502
Outline Drawing:	36A167947AA002

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	**5CD204PA107A141**	**Enclosure Mtg Assem:**	36A167775AC001
Outline Drawing:	36A167947AA002	**Instruction Book:**	GEH-3967N
Connection Diagram:	36A167910CA502	**RPM:**	1150/2000
Horsepower:	150	**Armature Amps:**	244
Armature Volts:	500	**Type:**	CD409AT
Wound:	SHUNT	**Power Supply Code:**	C
Enclosure:	DPFG-BV	**Insulation Class:**	F
Duty:	CONT	**Ambient Max (°C):**	40 C
Rating Code:	204P1270-04	**Field Volts:**	300/150
K(V):	3.91 Cemf volts/Radian/Sec	**WK2:**	44.00Lb Ft2
K(T):	2.81 Ft/Amp	**Year of Manufacture:**	2016
Minimum Ambient:	0 C	**Max Altitude:**	3300 Ft

Resistances at 25 Degrees C :		**Inductances:**	
Shunt Field:	28.3 OHMS	**Armature Circuit Total:**	2.640 mH Saturated
Armature:	.0603 OHMS	**Shunt Field:**	22.0 Henries Unsaturated
Commutator Field:	.0244 OHMS		

Shunt Field Data:

Shunt Field Current(1): 7.29 AMPS at Rated Load and 1150 RPM
Shunt Field Current(2): 5.39 AMPS at Rated Load and 1433 RPM
Shunt Field Current(3): 3.54 AMPS at Rated Load and 2000 RPM

Additional Machine Notes:
DRIPPROOF FULLY GUARDED, BLOWER VENTILATED - 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:

Model Number: 5CD204PA107A141

November 7, 2016

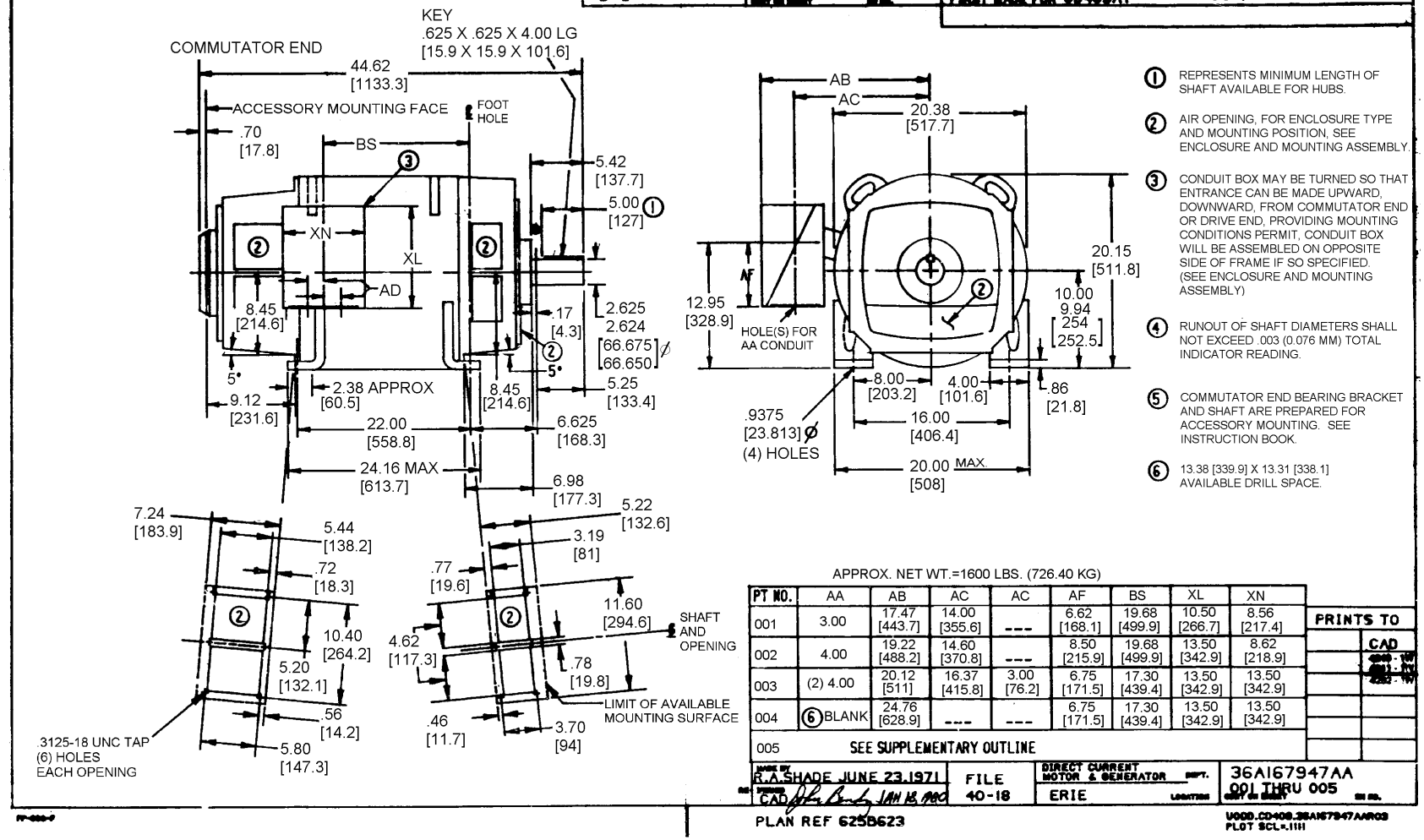
NO S.O.

GENERAL ELECTRIC

36A167947AA
001 THRU 005

TITLE
OUTLINE
1 OR 2 BRUSH
B.E. STD
FIRST MADE FOR CD403AT

36A167947AA
001 THRU 005



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
001	3.00	17.47 [443.7]	14.00 [355.6]	---	6.62 [168.1]	19.68 [499.9]	10.50 [266.7]	8.56 [217.4]
002	4.00	19.22 [488.2]	14.60 [370.8]	---	8.50 [215.9]	19.68 [499.9]	13.50 [342.9]	8.62 [218.9]
003	(2) 4.00	20.12 [511]	16.37 [415.8]	3.00 [76.2]	6.75 [171.5]	17.30 [439.4]	13.50 [342.9]	13.50 [342.9]
004	⑥ BLANK	24.76 [628.9]	---	---	6.75 [171.5]	17.30 [439.4]	13.50 [342.9]	13.50 [342.9]
005	SEE SUPPLEMENTARY OUTLINE							

PRINTS TO
CAD

DRAWN BY R.A.SHADE JUNE 23,1971
CAD
PLAN REF 6258623

FILE 40-18

DIRECT CURRENT MOTOR & GENERATOR DEPT.
ERIE

36A167947AA
001 THRU 005

U000.CD408.36A167947AAR03
PLOT SCL=.1111

imagination at work

NO S.O.

GENERAL ELECTRIC

36A167910CA502
CONT ON SHEET SH NO.

REV 1

36A167910CA502
CONT ON SHEET SH NO.

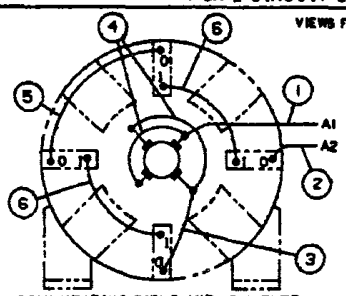
TITLE

DIAGRAM, CONNECTION

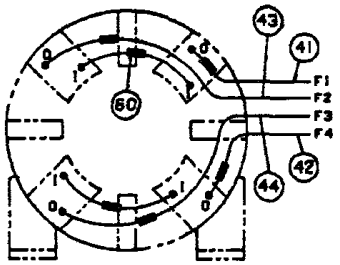
FIRST MADE FOR 4 POLE (EW)

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

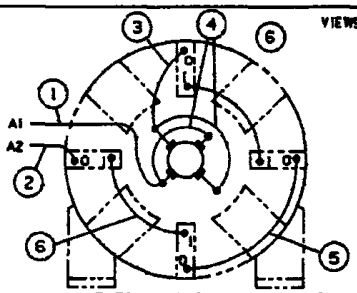


COMMUTATING FIELD AND ARMATURE

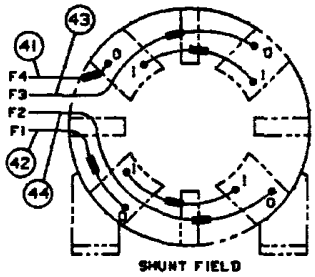


SHUNT FIELD

VIEWS FACING COMMUTATOR END - LEADS OUT LEFT SIDE



COMMUTATING FIELD AND ARMATURE



SHUNT FIELD

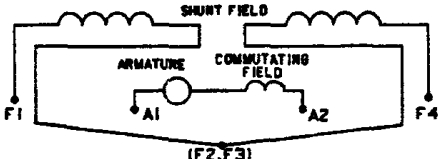
ALL EXTERNAL LEADS ARE MARKED. ALL CONNECTIONS AND TERMINATIONS EXTERNAL TO MAGNET FRAME MUST BE INSULATED PER NATIONAL ELECTRICAL CODE AND SOUND LOCAL PRACTICES.

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.

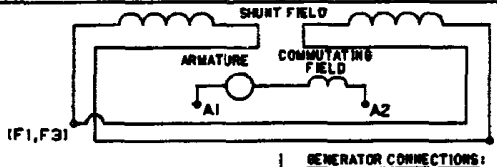
FOR
HIGH NAMEPLATE
EXCITATION VOLTAGE
CONNECT SHUNT FIELD
LEADS AS INDICATED



MOTOR CONNECTIONS:
FOR CCW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A1 THE SAME POLARITY.
FOR CW ROTATION FACING COMMUTATOR END, MAKE LEADS F1 AND A2 THE SAME POLARITY.

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.

FOR
LOW NAMEPLATE
EXCITATION VOLTAGE
CONNECT SHUNT FIELD
LEADS AS INDICATED



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.

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

DC2-281 12-15-671

REV			
1	08-30-94 DC HILL	NO S.O. RETRACED	CAD

MADE BY
WC HOVIS FEB. 16, 1972

RE-ISSUED
CAD/ DC Hill 8-30-94

FILE
KC13-1

GE MOTORS — DIV OR DEPT
ERIE — LOCATION

36A167910CA502
CONT ON SHEET SH NO.

C5X.A.36A167910CA502R01