

AEG

ALLGEMEINE ELEKTRICITÄTS-GESELLSCHAFT BÜRO KIEL

Lerchenstraße 18

Drahtwort
ELEKTRON

Fernsprecher
3202/03 u. 5086
Fernschreibanschluß Nr. 029 851

Bank-Konten: W. Ahlmann, Kiel, Konto-Nr. 1068
Holstenbank Kiel

RB. Nr. 0/0408/9011

Postscheck-Konto
Hamburg Nr. 4574

Neue Anschrift
Kiel, Herzog-Friedrichstr. 45

Zeichen

Ihr Schreiben vom

Unsere Zeichen
Br/M.

29.10.1949 Tag

Gleichstrom-Kompound-Generator 100 kW

Prüfung des 100-kW-Gleichstrom-Kompound-Generators mit ange-
bauter Erregermaschine und dazugehörigem Nebenschlussregler.

n des Leistungsschildes:

rikat:

SSW - Berlin

Nr.:

779 038 - D

stung:

100 kW DB

nnung:

230 V Gleichstrom

hzahl:

500 U/min.

zahl der angebauten Erreger-

3000 U/min.

chine

der Maschine:

Gleichstrom-Nebenschluss-
Generator mit Kompoundwicklung,
Schiffsausführung

orm:

B 2

tzart:

P 11, spritzwassergeschützt

Prüfung wurde vorgenommen durch: Herrn Kroll, AEG - Kiel.

Generator wurde auf Vollast betriebsmässig 1 Stunde gefahren.

Temperaturmessung:

1 Stunde Vollast wurde die Maschine auf die aufgetretene Er-
wärmung hin untersucht

Temperatur beim Versuch:

20° C
65° C
68° absolut

Wendepole: 55° absolut
Feld: 53° absolut

er:

elektor:

daten:

Widerstand kalt:

Strom:

Spannung:

1,6 Ohm
13,5 Amp.
22 Volt



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002442-002448-0247/2

Translation

Dr E G
Allgemeine Elektrizitäts-Gesellschaft
Kiel
4b) K i e l , Herzog-Friedrichstr. 45

Br/M. 29th October 1949

Direct-current - Compound - Generator 100 kW

Testing of the 100 kW direct-current compound generator with
fixed exciter and shunt governor belonging to it.

Details of the capacity plate:

Location:	SSW - Berlin
Factory No.:	779 038 - D
Capacity:	100 kW
Voltage:	230 volts, direct-current
Number of revolutions:	500 r.p.m.
Number of revolutions of the fixed exciter:	3000 r.p.m.
Construction of engine:	Direct-current shunt generator with compound windings, marine construction.
Number of poles:	B 2
Kind of shelter:	P 11, sheltered against squirting water.

Testing has been carried through by: Mr. KROLL, AEG - Kiel.

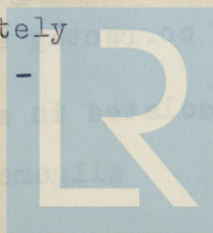
The generator has been driven at full load for about 1 hour.

Measurements of the temperature:

After having driven for about 1 hour at full load the engine has
been controlled with respect to the heating which had taken place.

Temperature of the room during the testing: 20° C

Generator:	65° C
Collector:	68° absolutely
Change poles:	55° absolutely
Field:	53° absolutely



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002442-002448-0241 12

Field dates:

Field resistance cold: 1,6 Ohm
Field power: 13,5 ampere
Field voltage: 22 volts

Loading test:

<u>Armature voltage</u>	<u>operating power</u>	<u>number of revolution</u>
220 V	0 A	520 r.p.
224 V	70 A	515 r.p.
228 V	140 A	515 r.p.
230 V	210 A	510 r.p.
228 V	280 A	505 r.p.
225 V	350 A	500 r.p.
220 V	420 A	500 r.p.

Insulation measurements:

Condition of the engine: cold
Stator: 140 MOhm
Field: oo
Change poles: oo

Super-voltage test:

During the time of one minute high-voltage of 1500 volts has been put on the cold engine. No short circuits took place.

General marks:

- The shaft is running without objection, no working of armature.
- No oil is coming out at the bearings.
- The position of brushes continues unchangeable at every r.p.m.
- The engine does not fire at no-load.
- The engine does not fire at full load.
- The engine does not fire at overload.
- The brush sliding surface was without objection after 1 hour.
- After a 1 hours running at full load the brushes had still temperatures too.
- The running surface of the commutator was without objection after a 1 hours load.
- The commutator was running round without any objection.
- The brushes are correctly adjusted in a fixed position and marked.
- The coils are isolated in a high quality manner.