

Netzröhre für GW-Heizung
indirekt geheizt
Serien- oder Parallelspeisung
DC-AC-Heating
indirectly heated
connected in parallel or series

TELEFUNKEN

EL 95

Endpentode
Power Pentode

U_f **6,3** V
 I_f **200** mA

Meßwerte · Measuring values

U_a	250	V
U_{g2}	250	V
U_{g1}	-9	V
I_a	24	mA
I_{g2}	4,5	mA
S	5	mA/V
R_i	80	k Ω
$\mu_{g2/g1}$	17	

Betriebswerte · Typical operation

Eintakt-A-Betrieb · Class A amplifier

U_a	200	250	V
U_{g2}	200	250	V
R_k	230	320	Ω
I_a	23	24	mA
I_{g2}	4,2	4,5	mA
R_a	8	10	k Ω
$U_{g1\text{ eff}} (N)$	4,5	5	V
N (12%)	2,3	3	W
$U_{g1\text{ eff}} (50\text{ mW})$	0,5	0,5	V

2 Röhren in Gegentakt-AB-Betrieb

2 tubes push-pull, class AB

U_a	200	250	V
U_{g2}	200	250	V
R_k	360 ¹⁾	360 ¹⁾	Ω
I_{a0}	2×17,5	2×22	mA
$I_{a\text{ ausgest.}}$	2×20	2×26	mA
I_{g20}	2×3,2	2×4,2	mA
$I_{g2\text{ ausgest.}}$	2×5,2	2×7,5	mA
R_{aa}	10	10	k Ω
$U_{g1\text{ eff}} (N)$	7 ¹⁾	9 ¹⁾	V
N	4,1	7	W
k	4,5	5	%
$U_{g1\text{ eff}} (50\text{ mW})$	0,5 ¹⁾	0,5 ¹⁾	V

2 Röhren in Gegentakt-B-Betrieb

2 tubes push-pull, class B

U_a	200	250	V
U_{g2}	200	250	V
U_{g1}	-10	-13	V
I_{a0}	2×7	2×8	mA
$I_{a\text{ ausgest.}}$	2×19	2×24	mA
I_{g20}	2×1,2	2×1,2	mA
$I_{g2\text{ ausgest.}}$	2×5	2×7,2	mA
R_{aa}	10	10	k Ω
$U_{g1\text{ eff}} (N)$	7 ¹⁾	9 ¹⁾	V
N	4	6,5	W
k	3,5	3,5	%
$U_{g1\text{ eff}} (50\text{ mW})$	0,7 ¹⁾	0,7 ¹⁾	V

¹⁾ pro Röhre · each tube



2 Röhren in Gegentakt-AB-Betrieb
R_k gemeinsam

2 tubes push-pull, class AB
 R_k common

U _a	250	V
U _{g2}	250	V
R _k	220	Ω
I _{ao}	2×19	mA
I _a	2×24	mA
I _{g2o}	2×3,2	mA
I _{g2}	2×7,2	mA
R _{aa}	10	kΩ
U _{g1 eff} (N)	9,5¹⁾	V
N	6	W
k	5	%

1) pro Röhre · each tube

2) R_k gemeinsam · R_k common

Nennwert-Grenzdaten
Design centre ratings

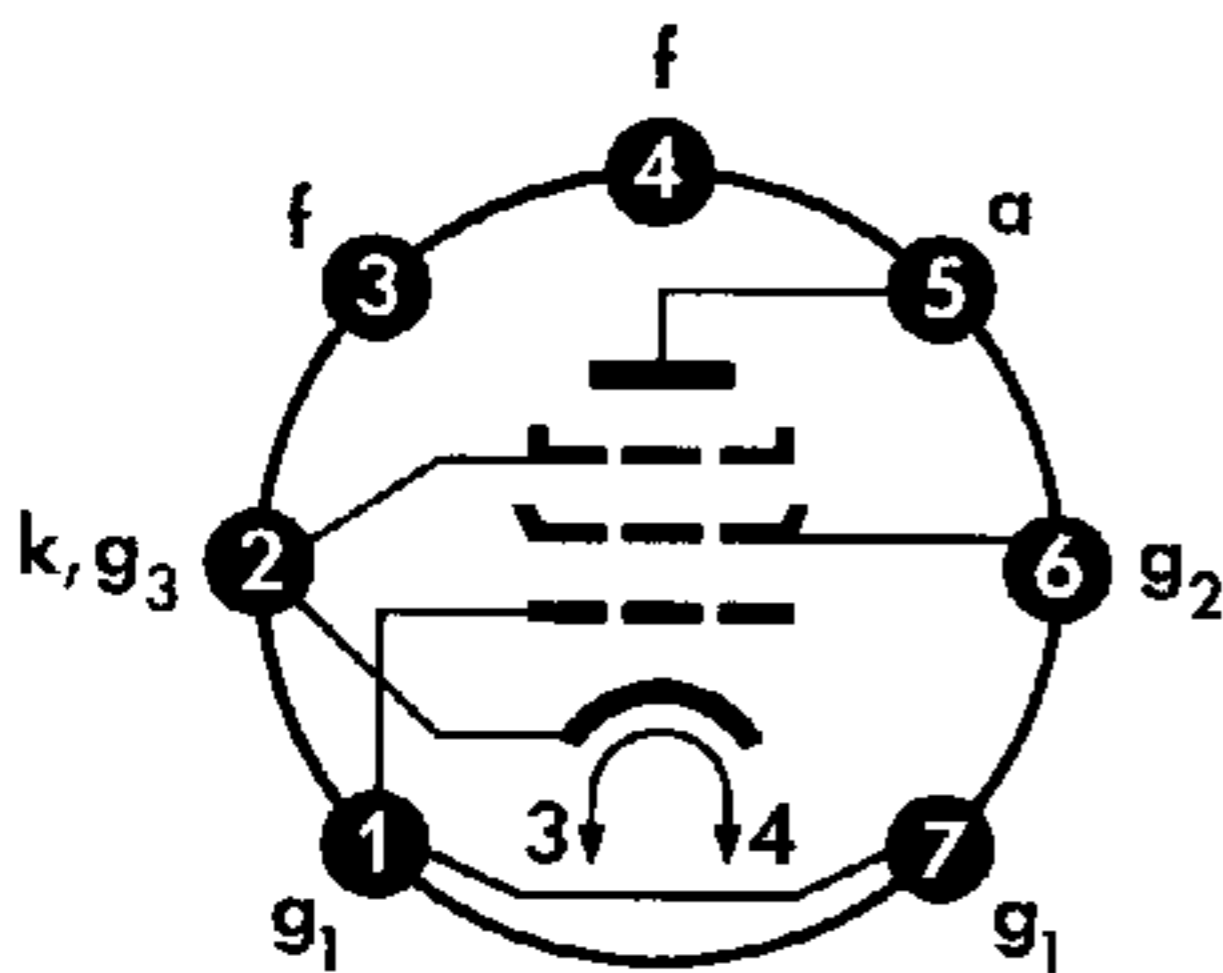
U _{ao}	550	V
U _a	300	V
N _a	6	W
N _a ²⁾	5	W
U _{g2o}	550	V
U _{g2}	300	V
N _{g2}	1,25	W
N _{g2} ausgest.	2,5	W
I _k	35	mA
R _{g1}	2	MΩ
U _{g1e} (I _{g1} ≤ +0,3 μA)	-1,3	V
U _{f/k}	100	V
R _{f/k}	20	kΩ

Kapazitäten · Capacitances

C _{g1}	ca. 5,3	pF
C _a	ca. 3,5	pF
C _{g1a}	< 0,4	pF
C _{g1f}	< 0,2	pF

Sockelschaltbild

Basing diagram

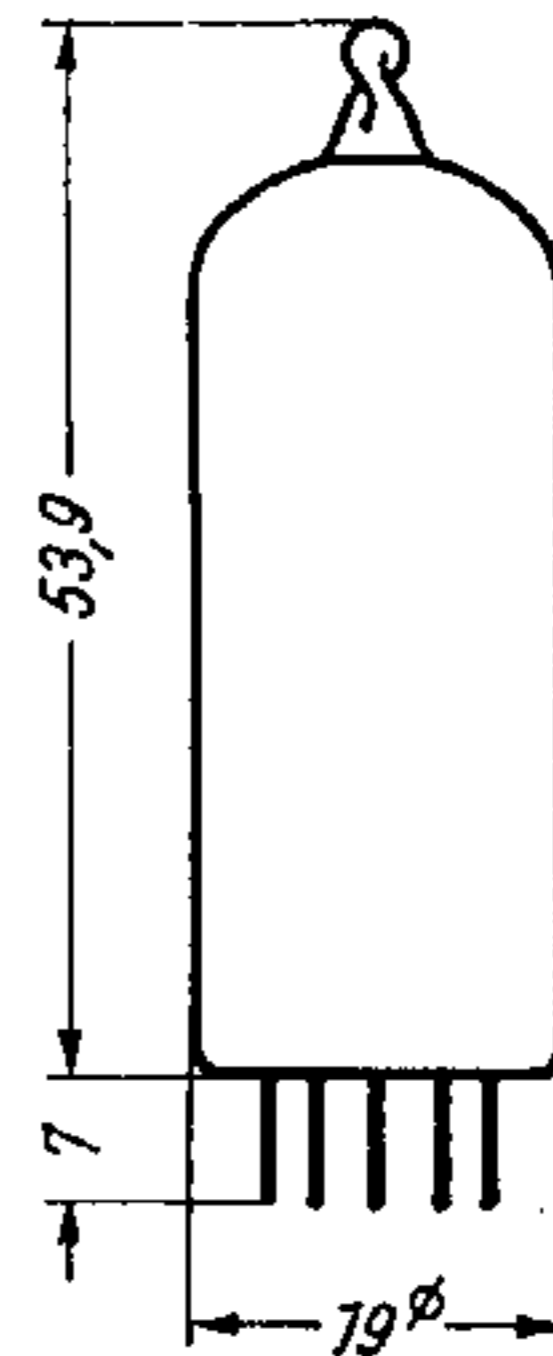


Pico 7 · Miniatur

Einbau beliebig · Mounting position any

max. Abmessungen

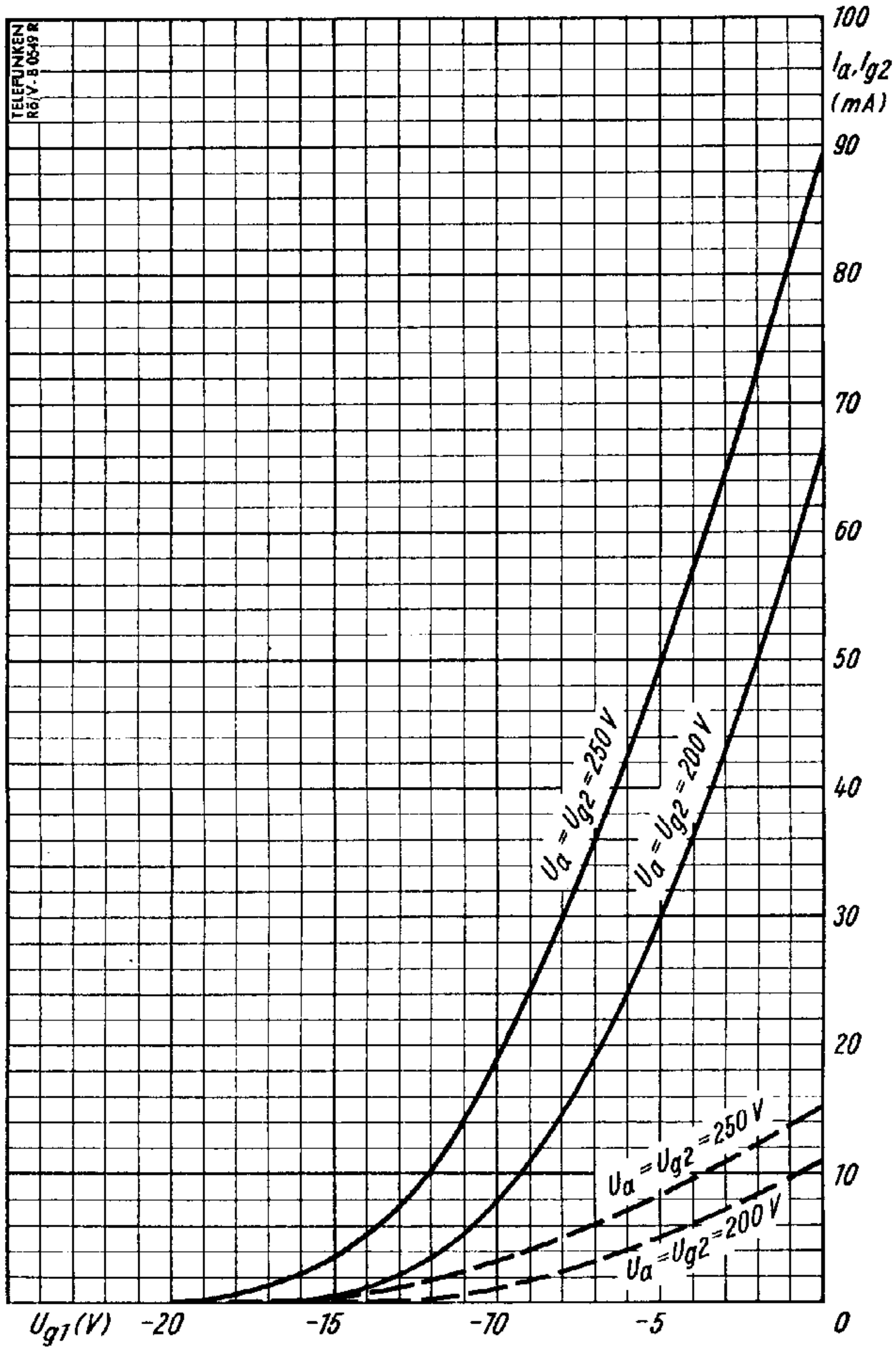
max. dimensions
 DIN 41 537, Nenngröße 44, Form A



Gewicht · Weight
 max. 10 g

Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.
 If necessary special precautions must be taken to prevent the tube from becoming dislodged from the socket.



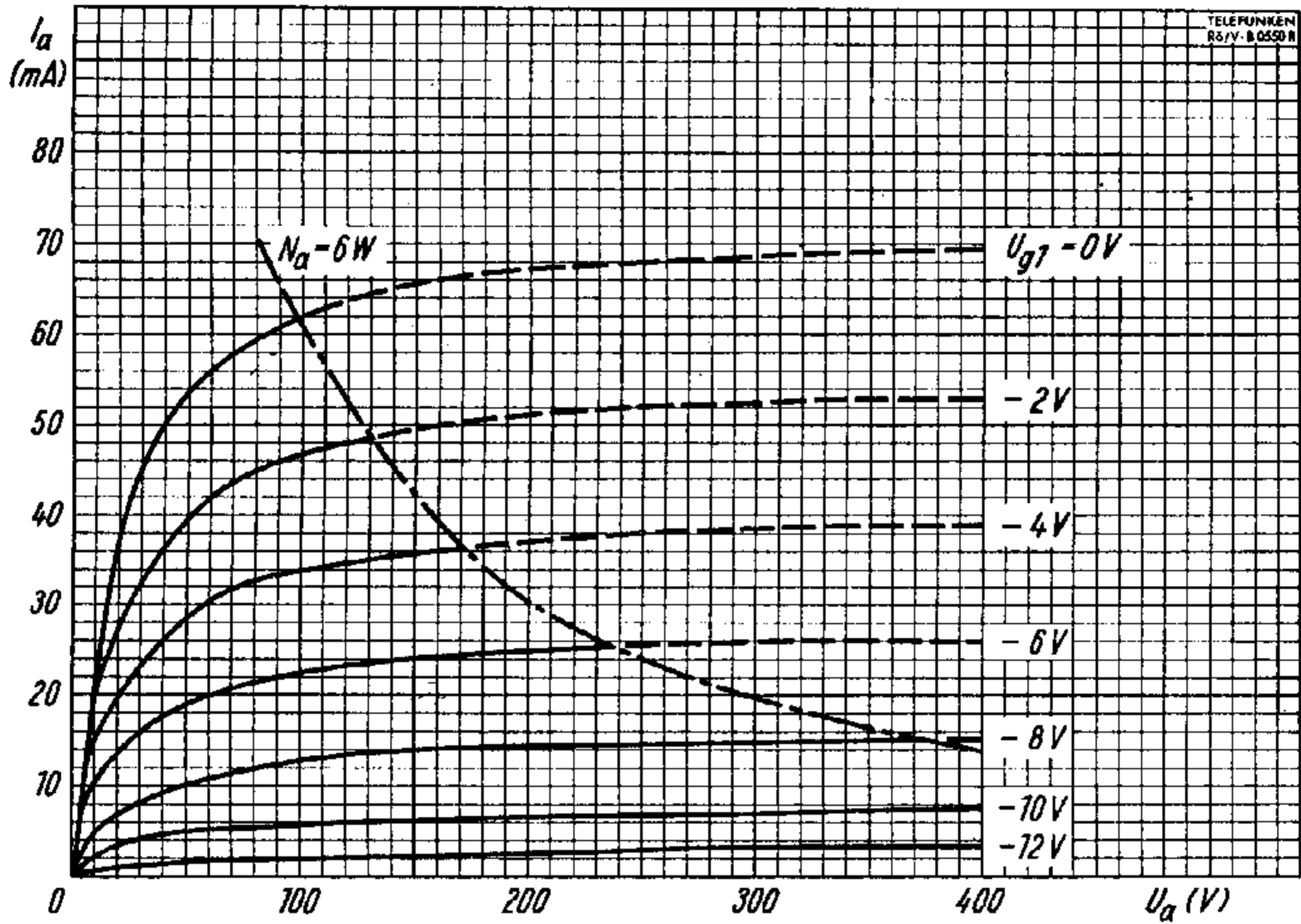


— I_a - - - I_{g2}

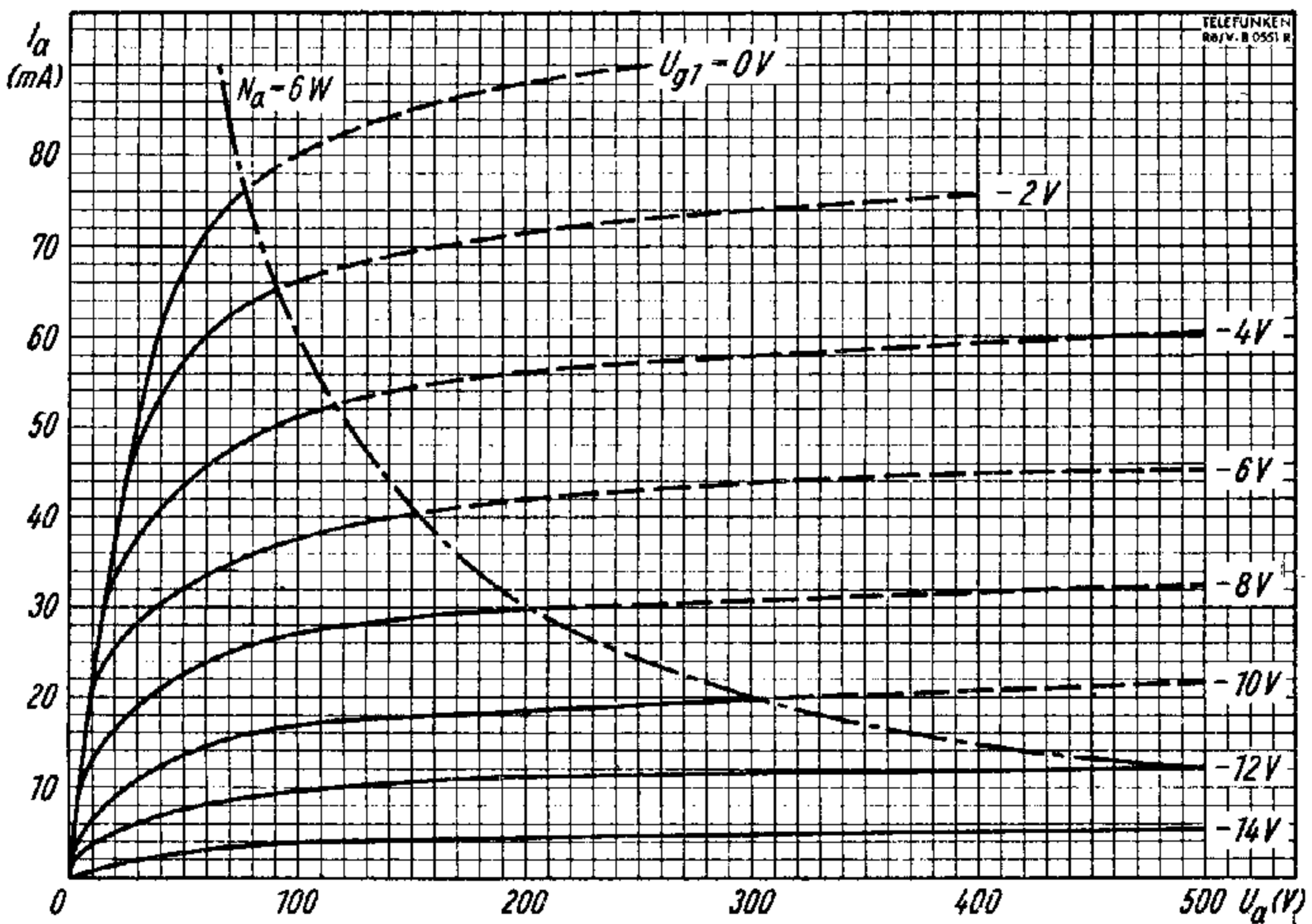
$I_a, I_{g2} = f(U_{g1})$

$U_a = U_{g2} = \text{Parameter}$



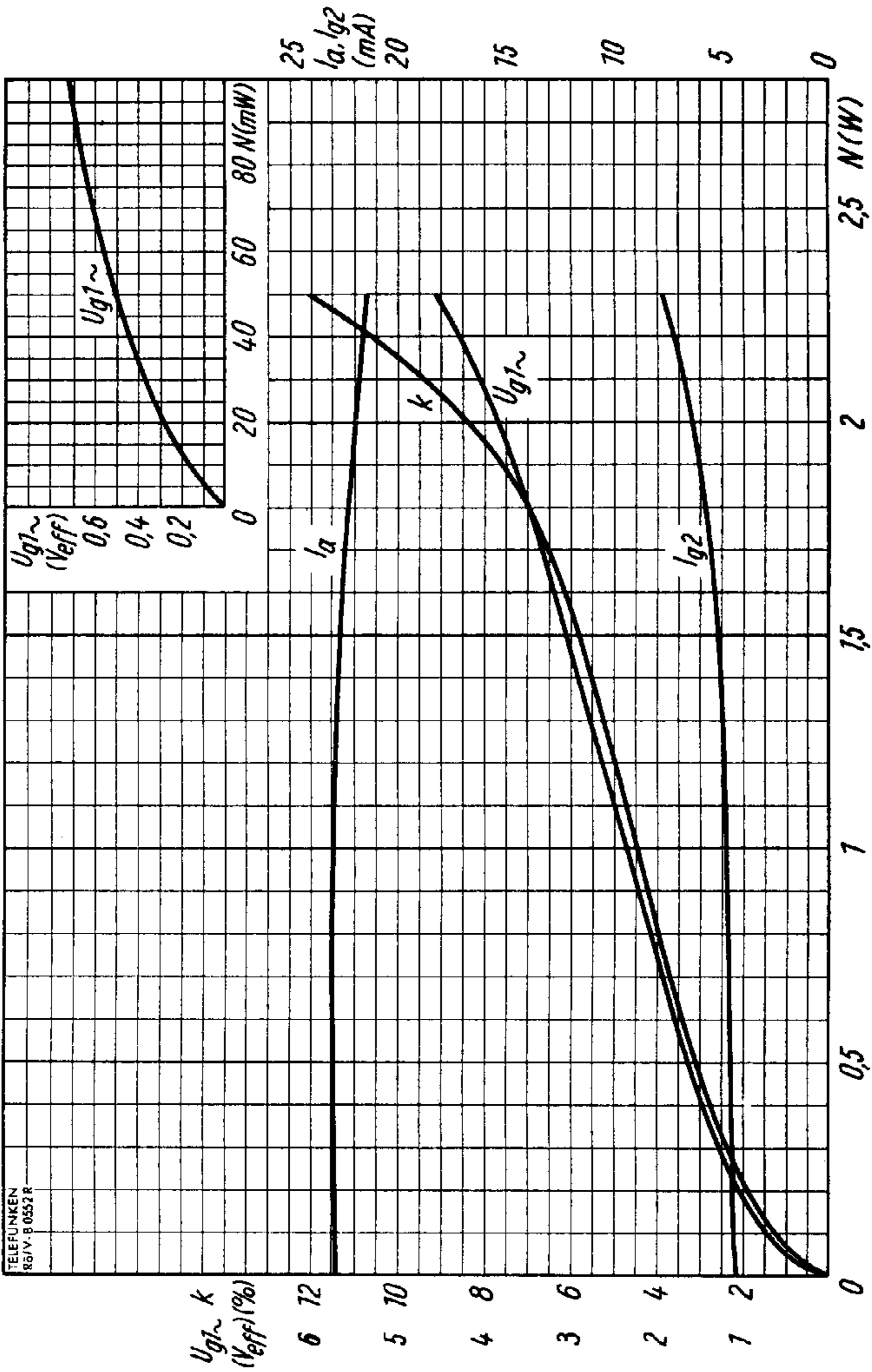


$I_a = f(U_a)$
 $U_{g2} = 200 V$
 $U_{g1} = \text{Parameter}$



$I_a = f(U_a)$
 $U_{g2} = 250 V$
 $U_{g1} = \text{Parameter}$



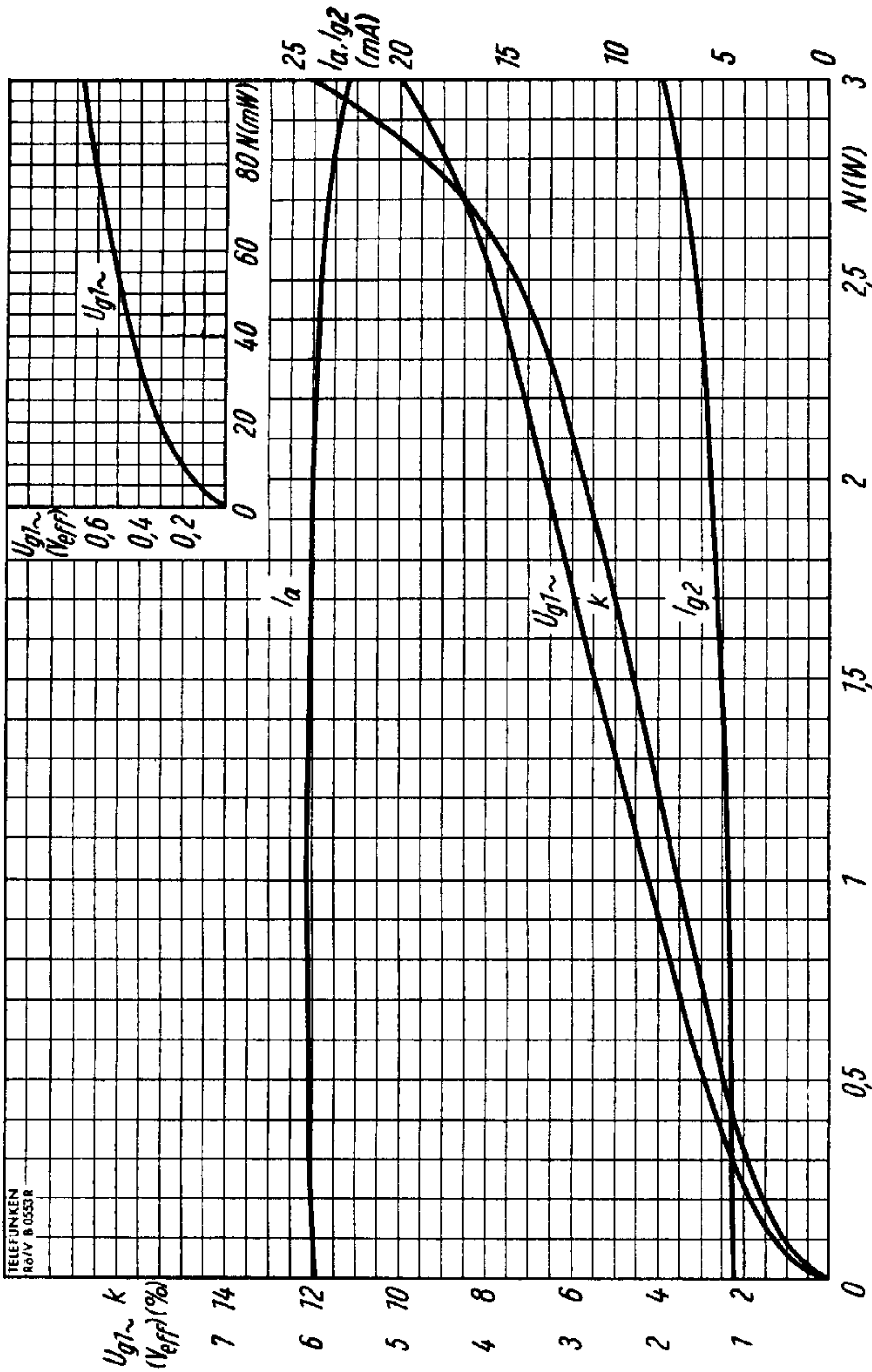


Eintakt - A - Betrieb

$I_a, I_{g2}, U_{g1\sim}, k = f(N)$
 $U_a = U_{g2} = 200 \text{ V}$
 $R_a = 8 \text{ k}\Omega$
 $R_k = 230 \Omega$

TELEFUNKEN
85/V. B 0552 R



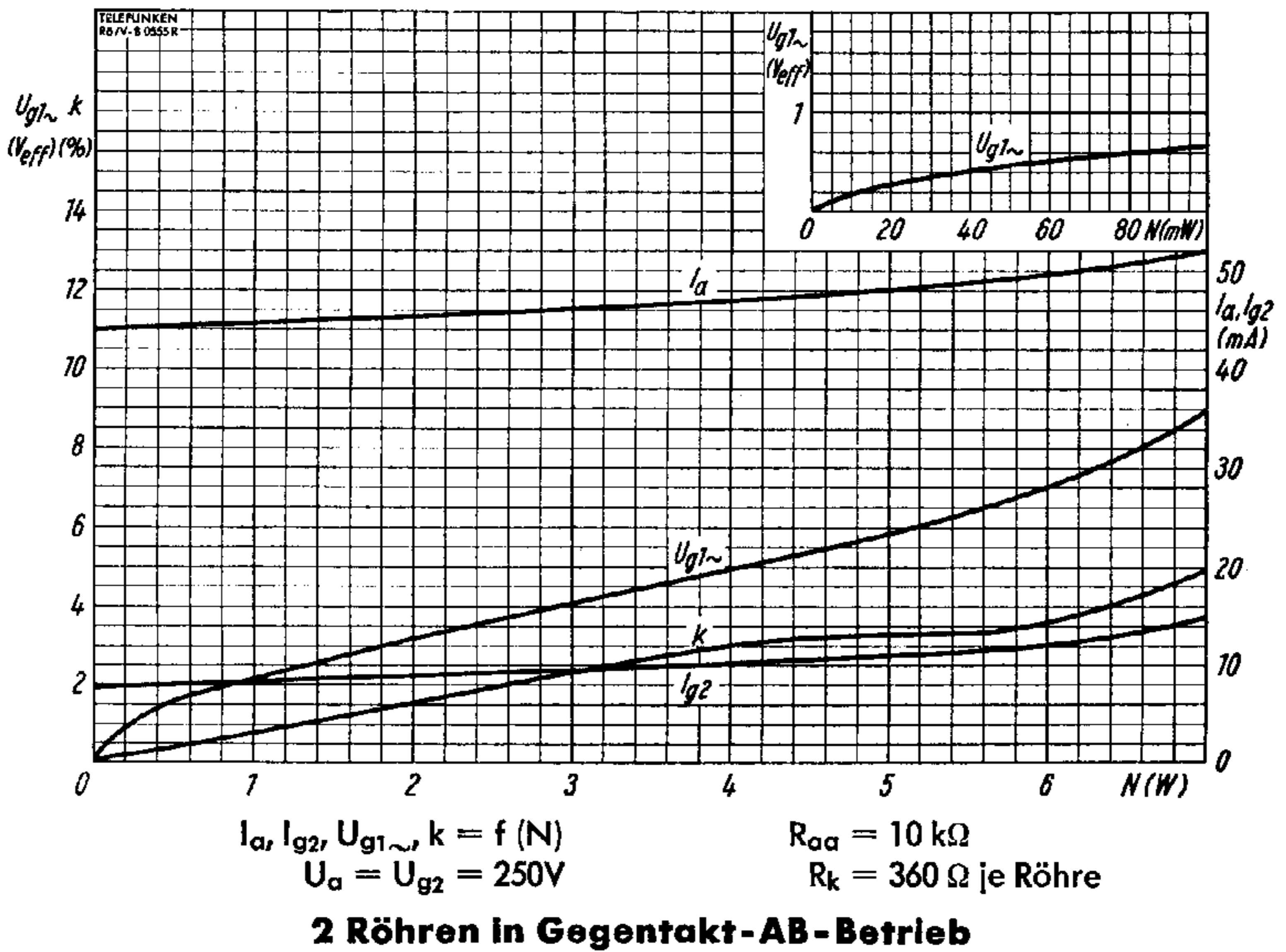
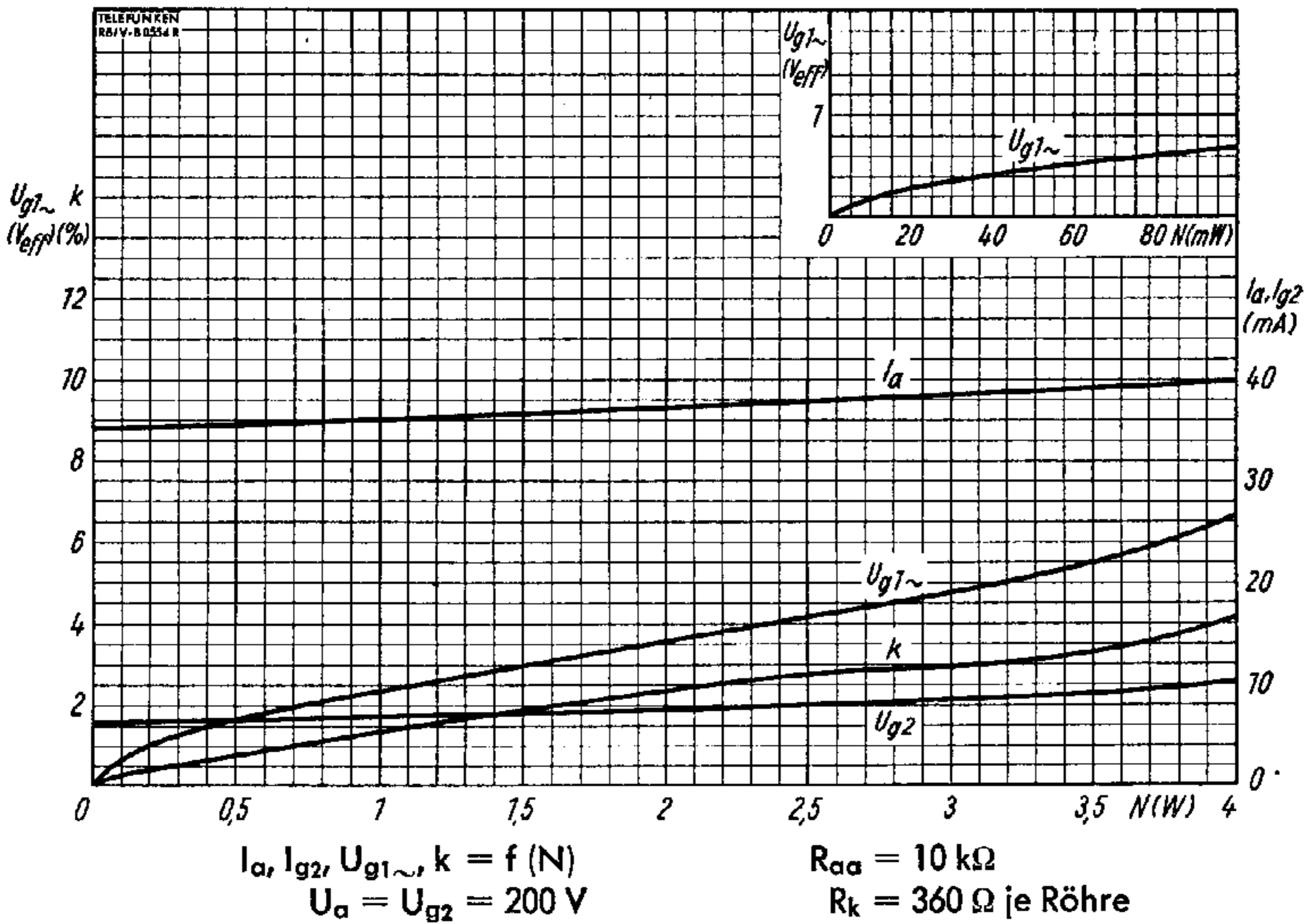


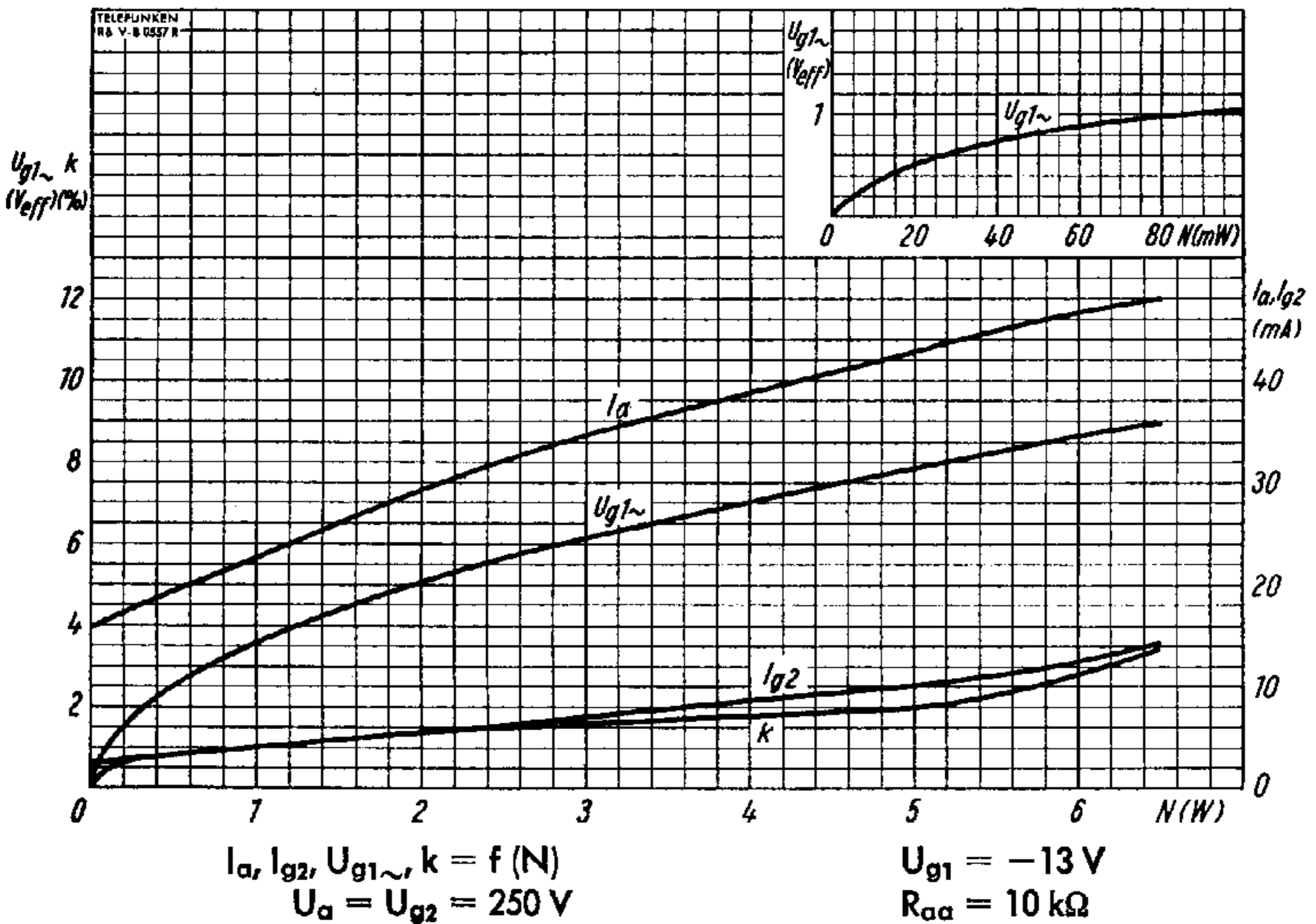
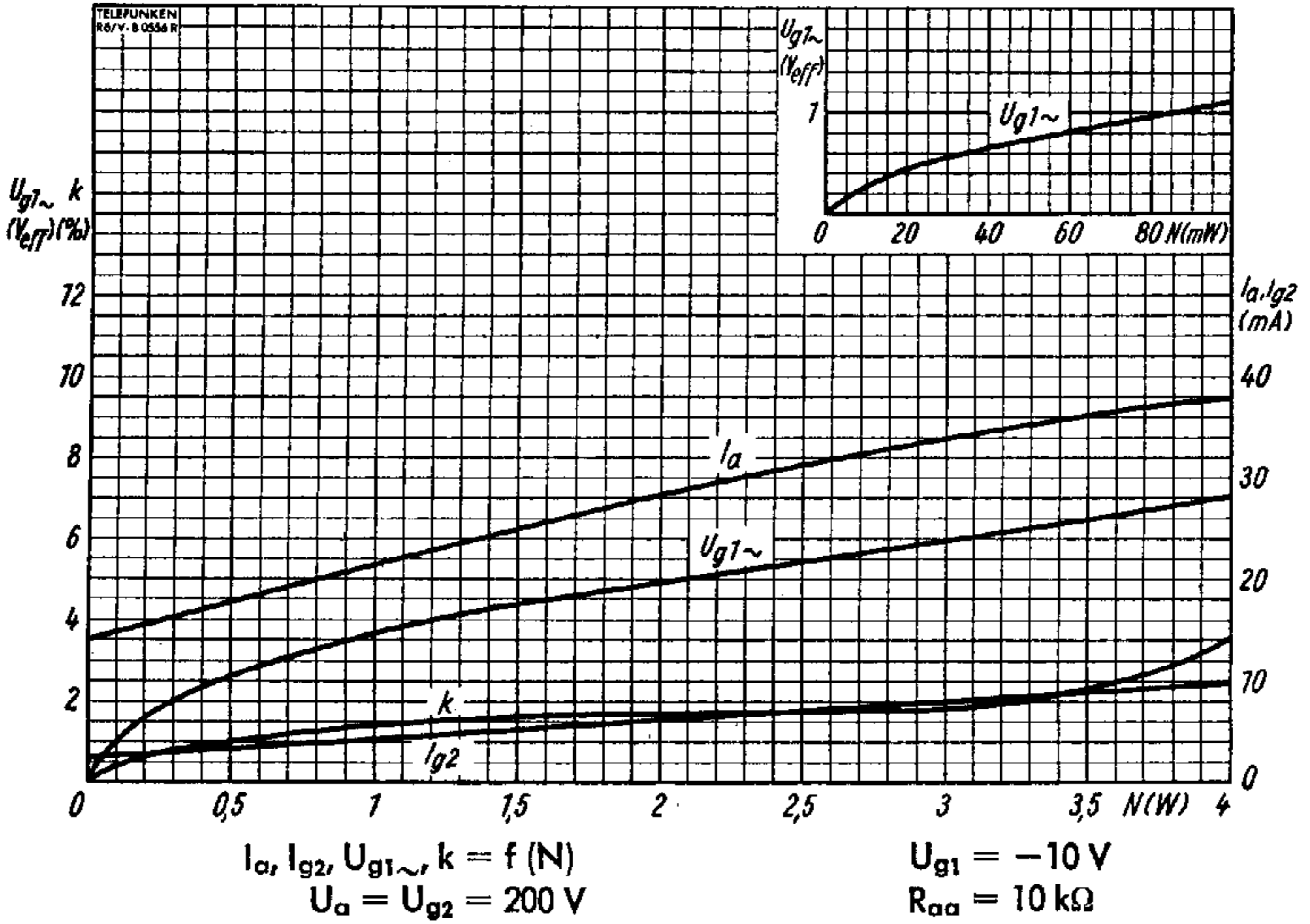
Eintakt - A - Betrieb

$I_a, I_{g2}, U_{g1\sim}, k = f(N)$
 $U_a = U_{g2} = 250 \text{ V}$
 $R_a = 10 \text{ k}\Omega$
 $R_k = 320 \Omega$



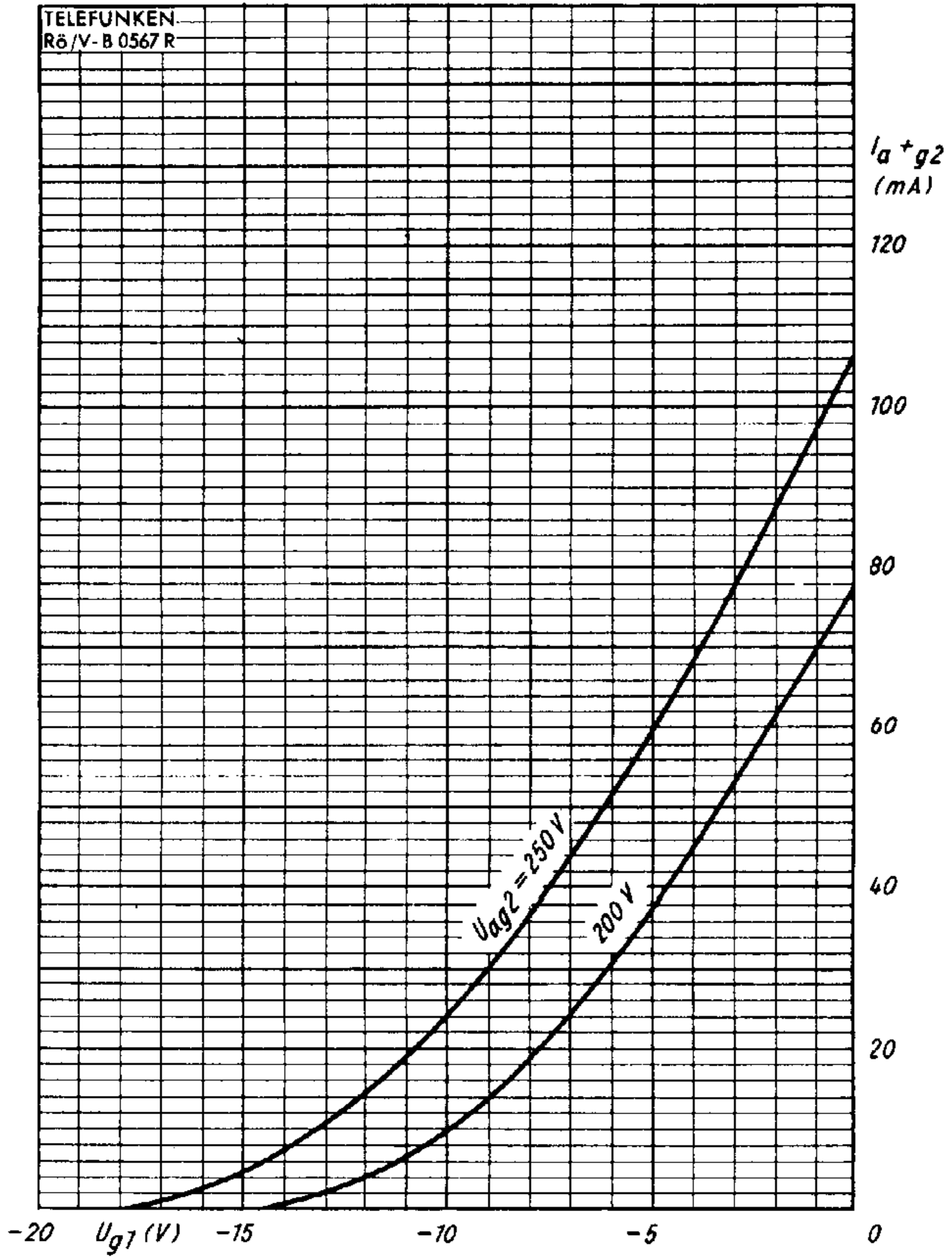
TELEFUNKEN
R6/V B 0553R





2 Röhren in Gegentakt-B-Betrieb



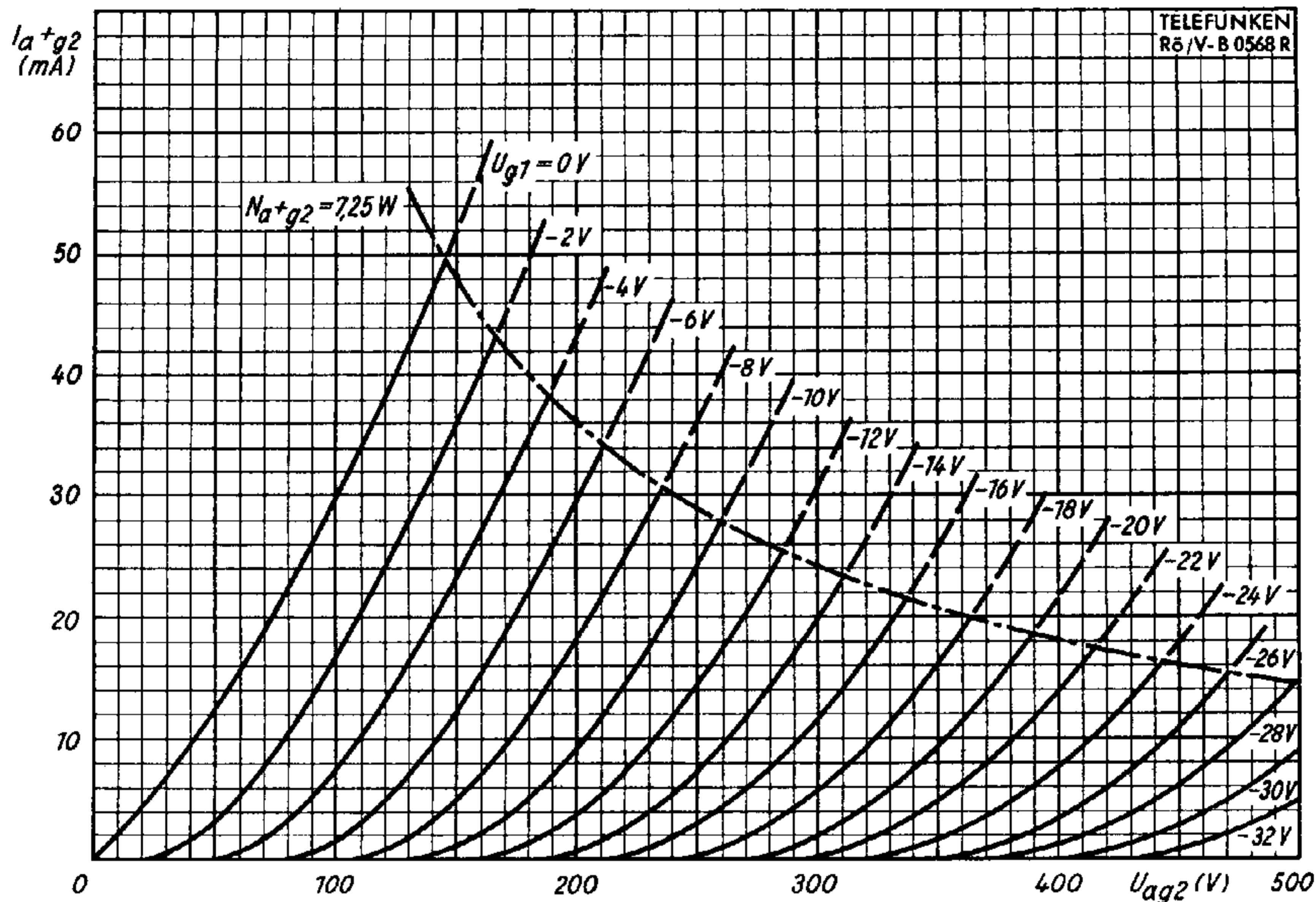


Als Triode geschaltet
g₂ an a

$$I_{a+g2} = f(U_{g1})$$

$$U_{ag2} = \text{Parameter}$$





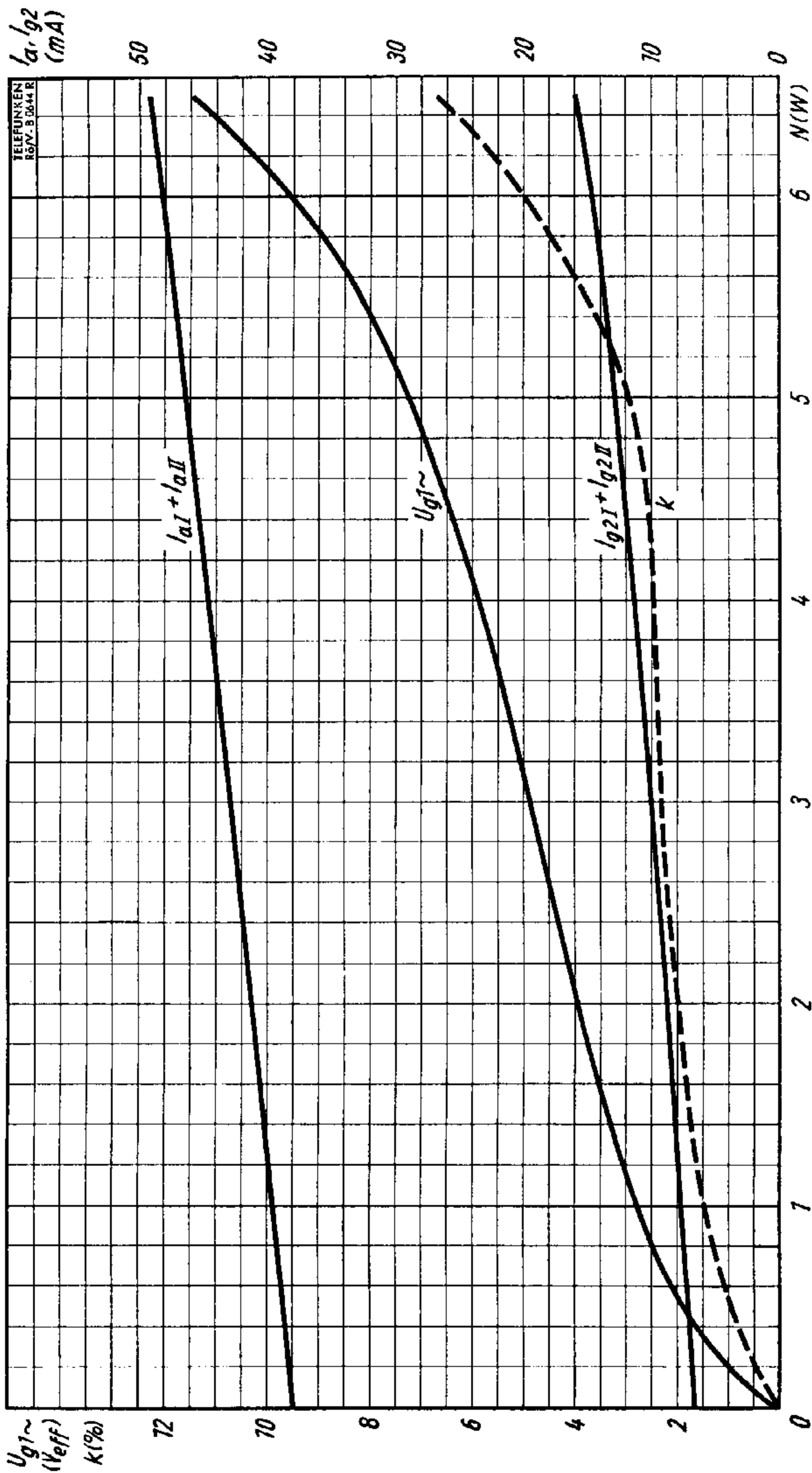
Als Triode geschaltet

g_2 an a

$$I_{a+g2} = f(U_{ag2})$$

U_{g1} = Parameter





2 Röhren in Gegentakt-AB-Betrieb, R_k gemeinsam

- $U_a = 250 \text{ V}$
- $U_{g2} = 250 \text{ V}$
- $R_k = 220 \Omega$
- $R_{aa} = 10 \text{ k}\Omega$

