Netzröhre für GW-Heizung
indirekt geheizt
Serienspeisung

DC-AC-heating
indirectly heated
connected in series

TELEFUNKEN

PL 95

Endpentode

Power Pentode

I_f	**300**	mA
U_f	ca. 4,5	V

Normierte Anheizzeit · Normalized heater warm-up time

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	kΩ
$\mu_{g2/g1}$	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	kΩ
$U_{g1\ eff}$ (N)	4,5	5	V
N (12 %)	2,3	3	W
$U_{g1\ eff}$ (50 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** *)	**360** *)	Ω
I_{ao}	2×17,5	2×22	mA
$I_{a\ ausgest.}$	2×20	2×26	mA
I_{g2o}	2×3,2	2×4,2	mA
$I_{g2\ ausgest.}$	2×5,2	2×7,5	mA
R_{aa}	10	10	kΩ
$U_{g1\ eff}$ (N)	7 *)	9 *)	V
N	4,1	7	W
k	4,5	5	%
$U_{g1\ eff}$ (50 mW)	0,5 *)	0,5 *)	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_{ao}	**2x7**	**2x8**	mA
$I_{a\ ausgest.}$	2×19	2×24	mA
I_{g2o}	2×1,2	2×1,2	mA
$I_{g2\ ausgest.}$	2×5	2×7,2	mA
R_{aa}	10	10	kΩ
$U_{g1\ eff}$ (N)	7 *)	9 *)	V
N	4	6,5	W
k	3,5	3,5	%
$U_{g1\ eff}$ (50 mW)	0,7 *)	0,7 *)	V

*) pro Röhre · each tube

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TELEFUNKEN

Betriebswerte · Typical operation
Nennwert-Grenzdaten · Design centre ratings

2 Röhren in Gegentakt-AB-Betrieb
R_k gemeinsam
2 tubes push-pull, class AB

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) [1]	9,5	V
N	6	W
k	5	%

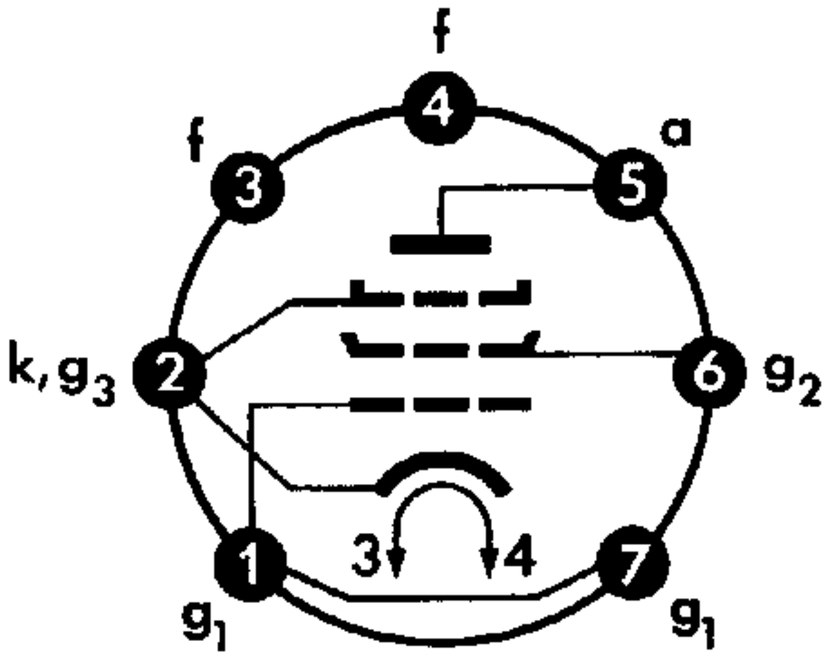
[1]) **pro Röhre** · each tube
[2]) **R_k gemeinsam** · R_k common

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} ($I_{g1} \leqq +0{,}3\ \mu A$)	**−1,3**	V
$U_{f/k}$	**200**	V
$R_{f/k}$	**20**	kΩ

Kapazitäten · Capacitances

c_{g1}	ca.	5,3	pF
c_a	ca.	3,5	pF
$c_{g1/a}$	<	0,4	pF
$c_{g1/f}$	<	0,2	pF

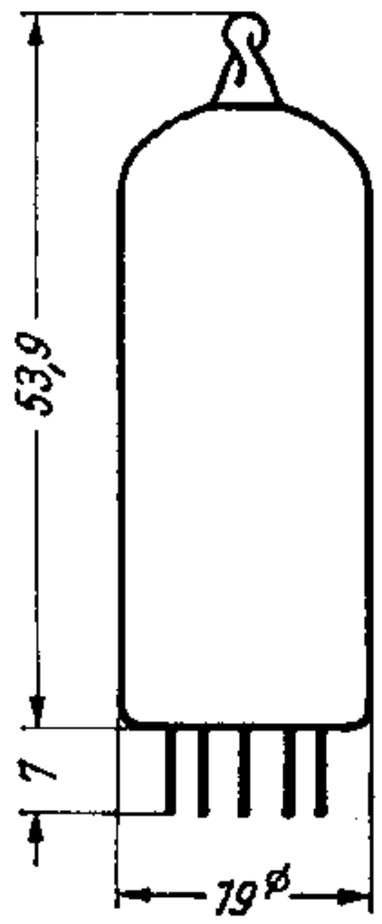
Sockelschaltbild
Basing diagram



Pico 7 · Miniatur

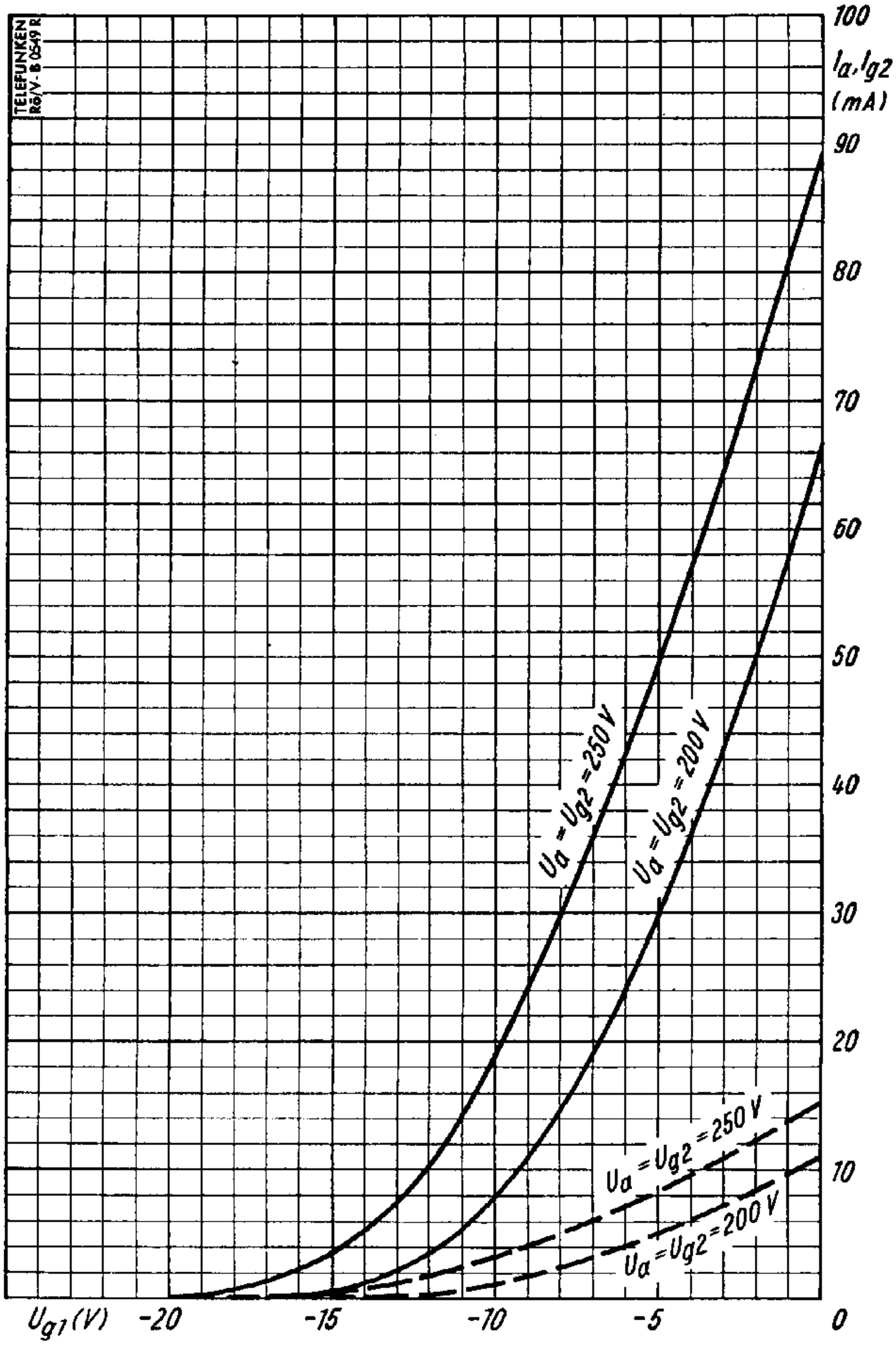
Einbau: beliebig
Mounting position: any

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}

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

$U_a = U_{g2}$ = Parameter

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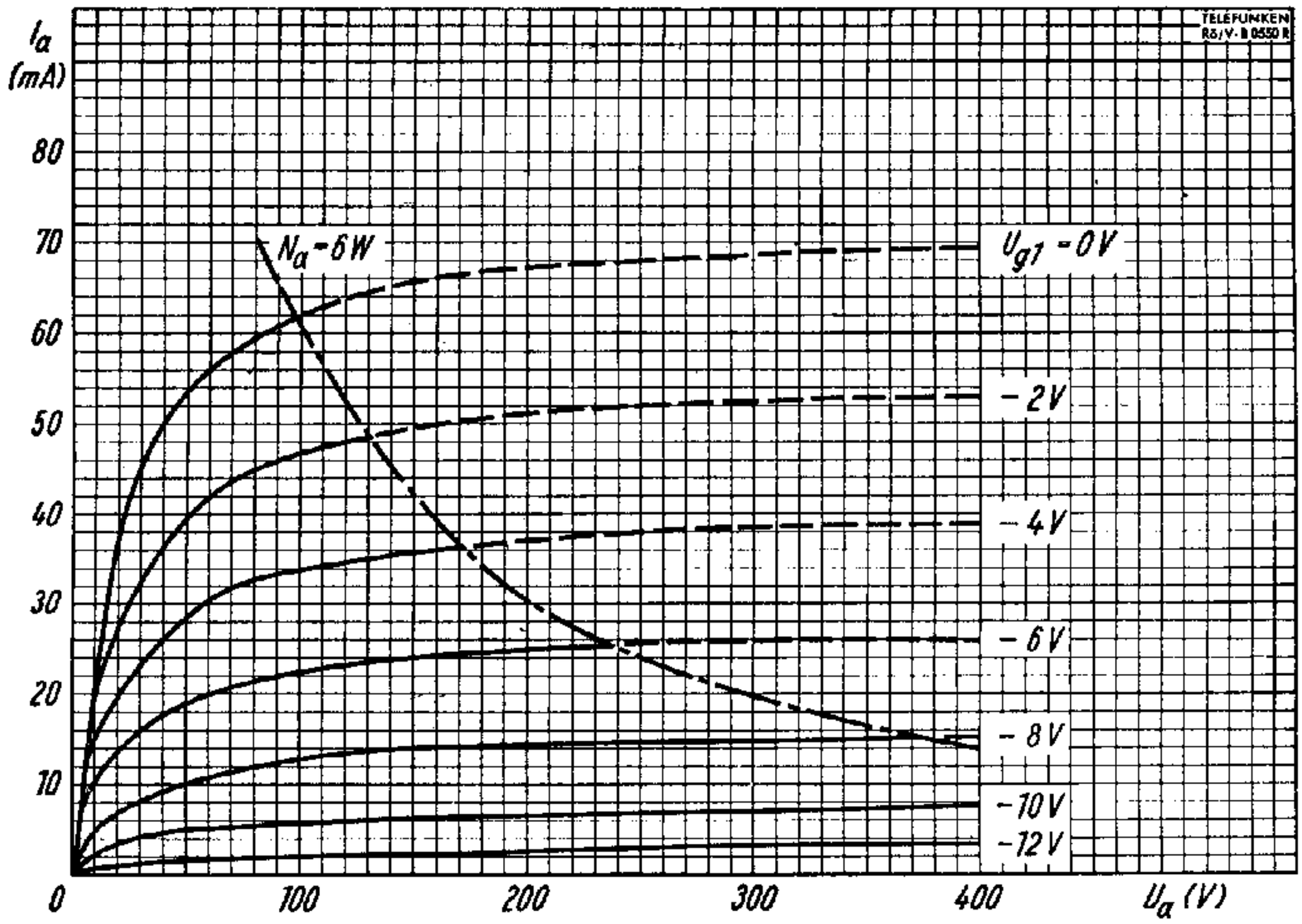
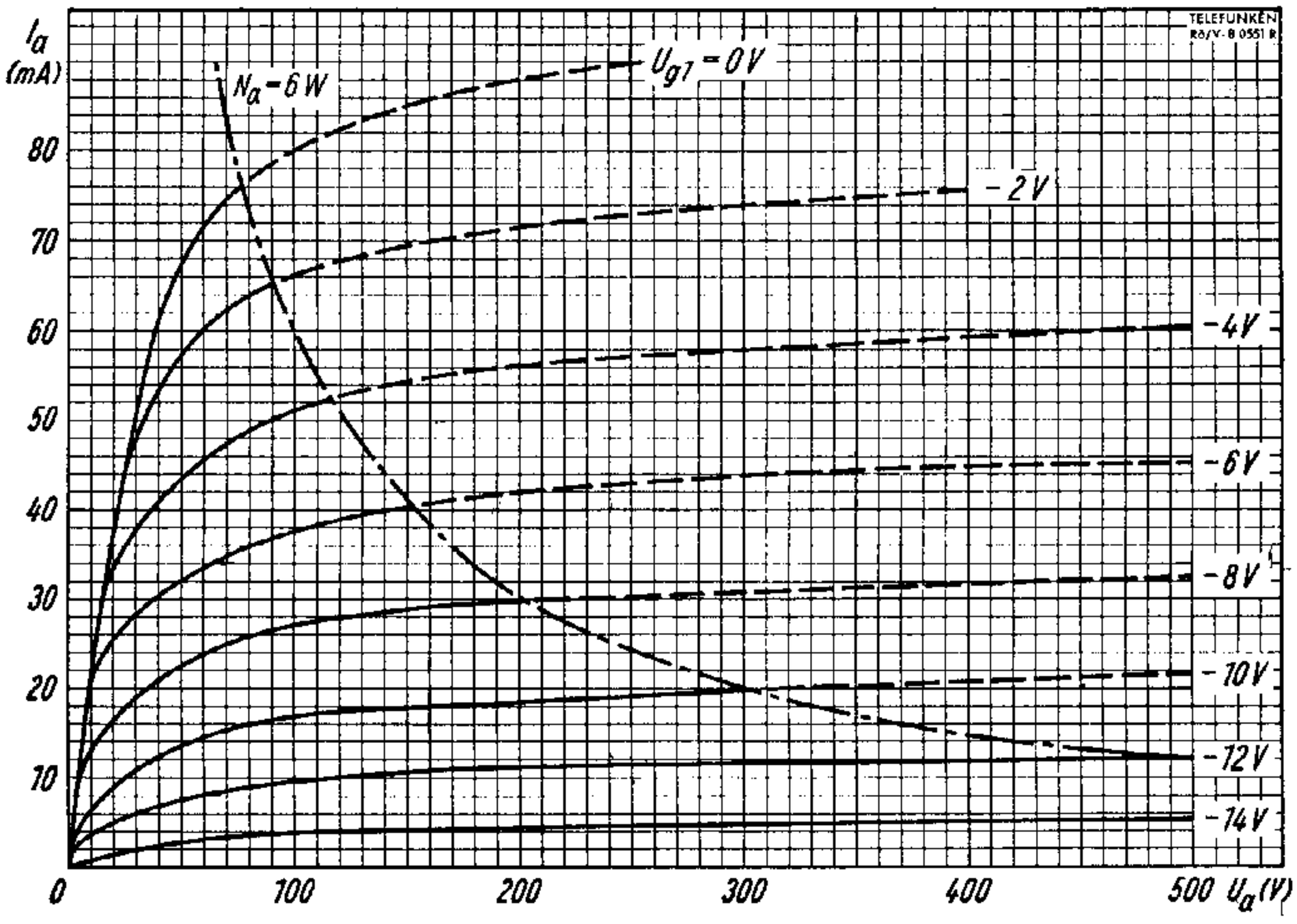
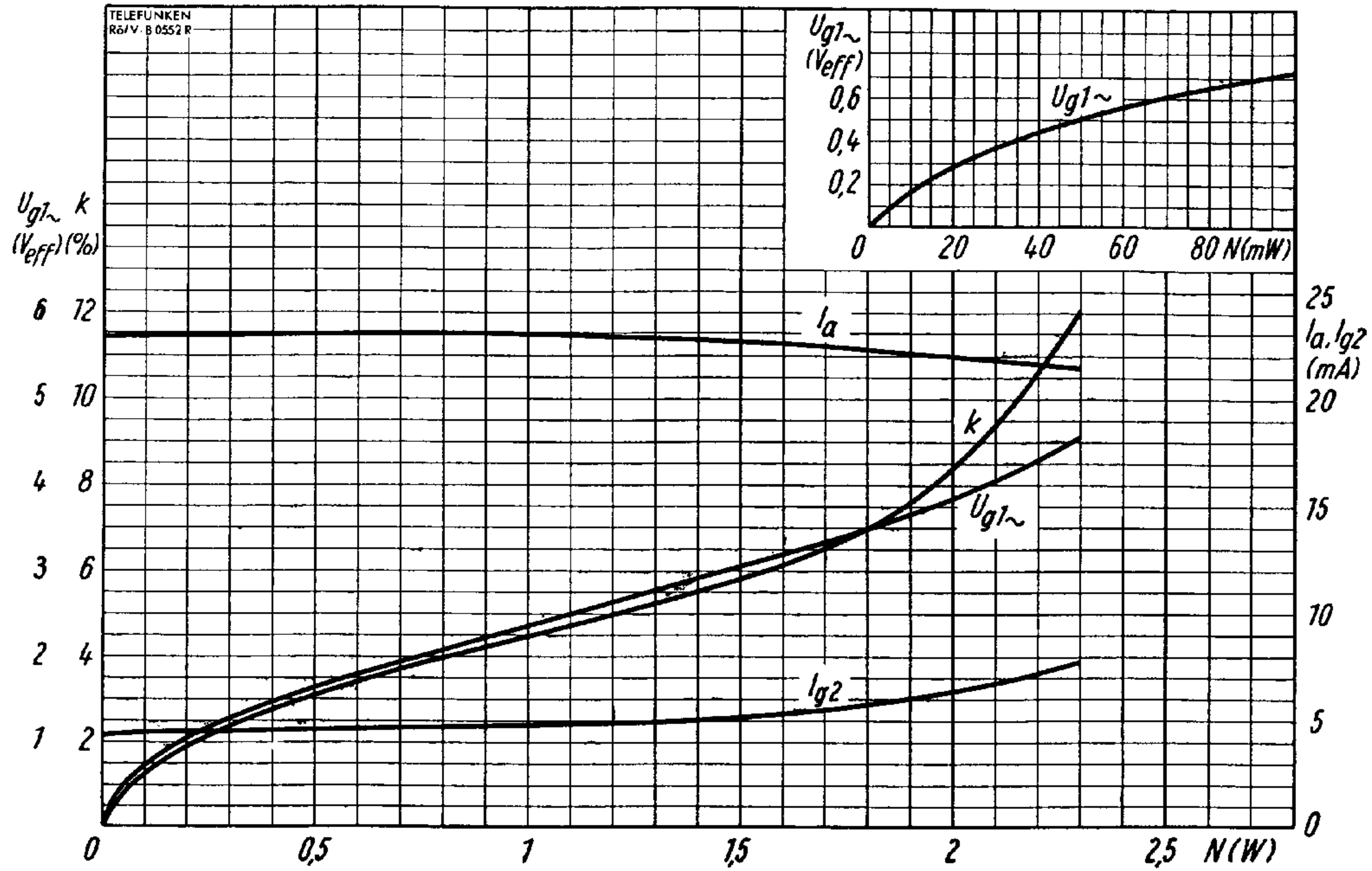
TELEFUNKEN



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



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



Eintakt-A-Betrieb · Class A-amplifier

I_a, I_{g2}, $U_{g1\,eff}$, k = f (N)
$U_a = U_{g2}$ = 200 V
R_a = 8 kΩ
R_k = 230 Ω

TELEFUNKEN

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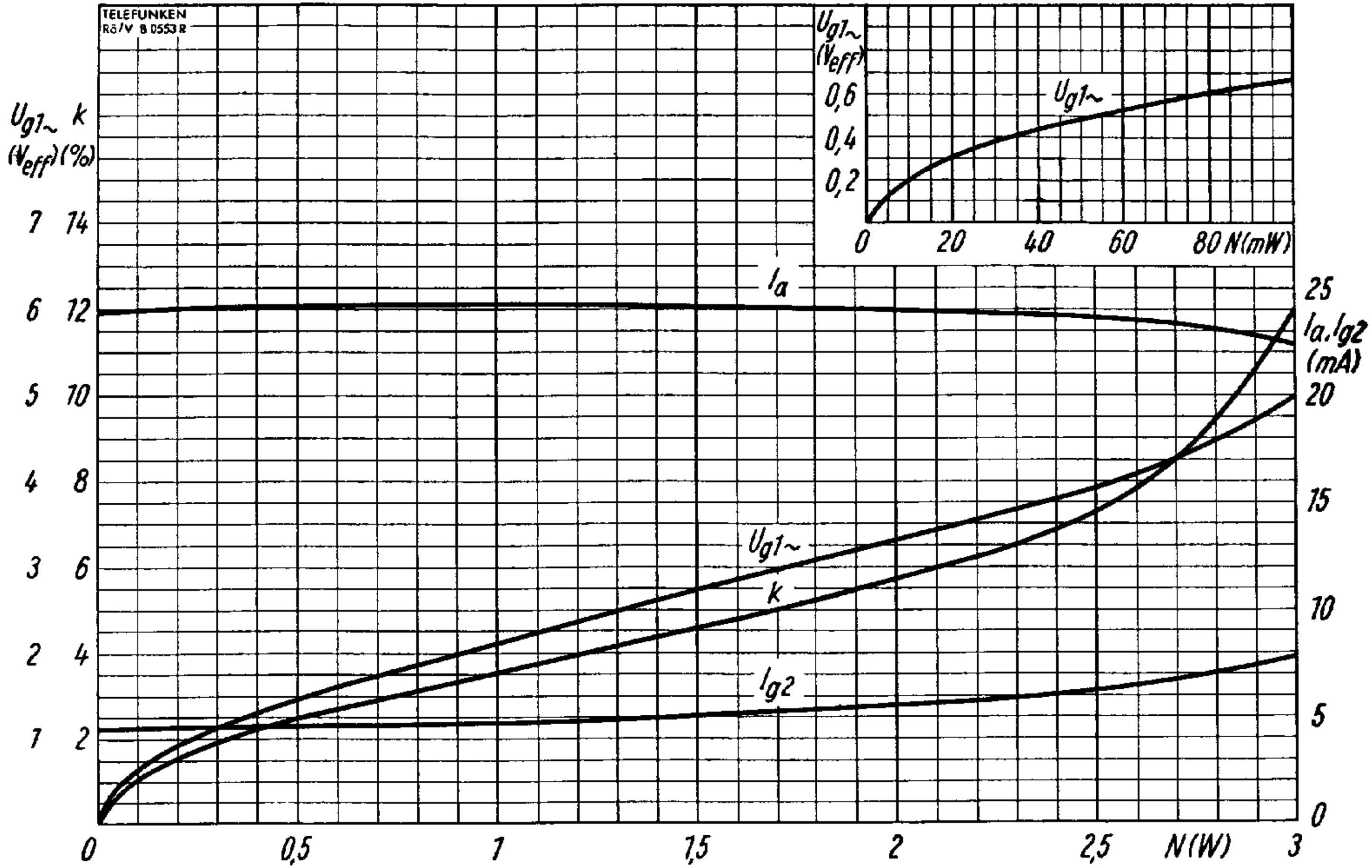
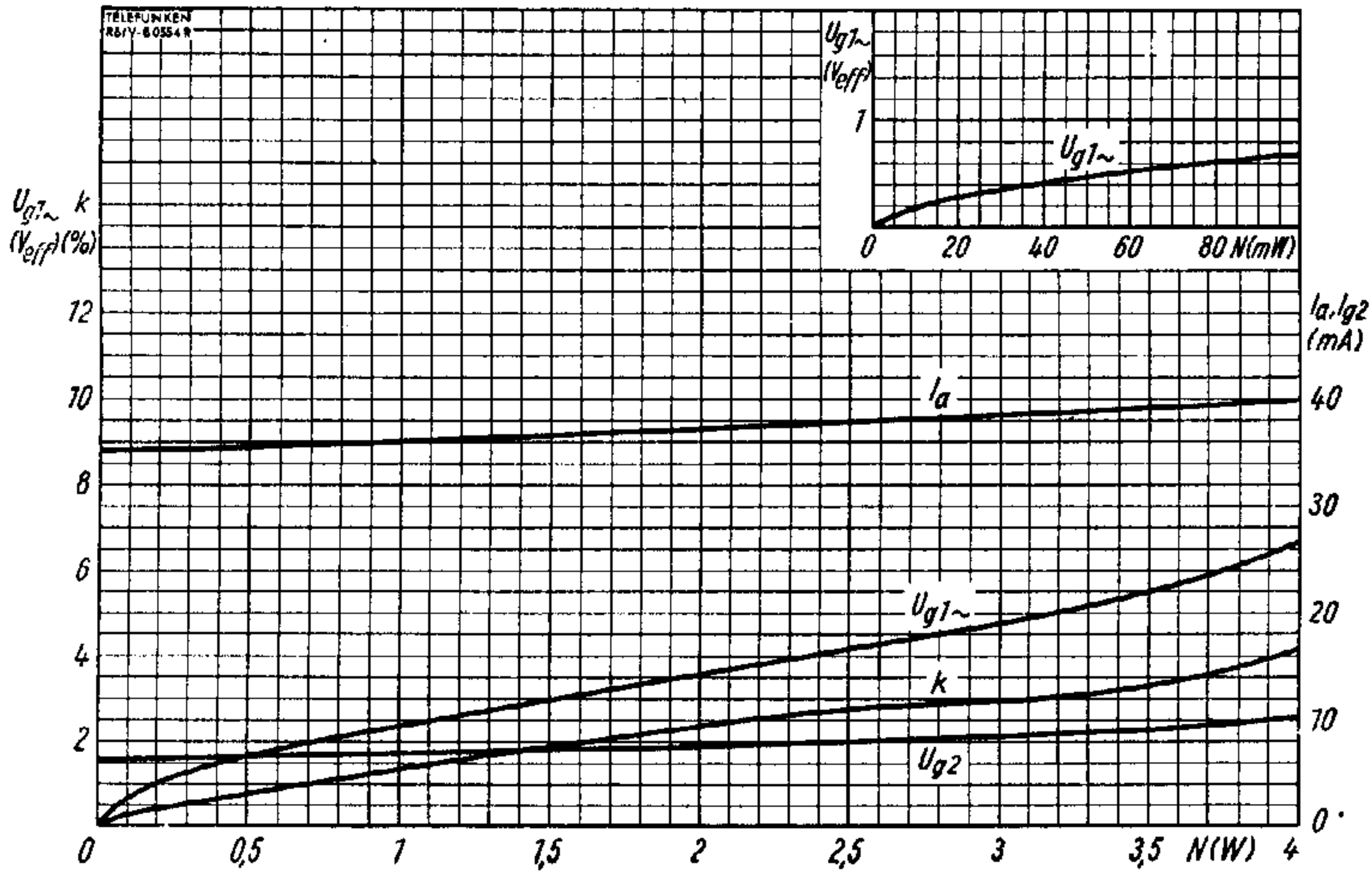


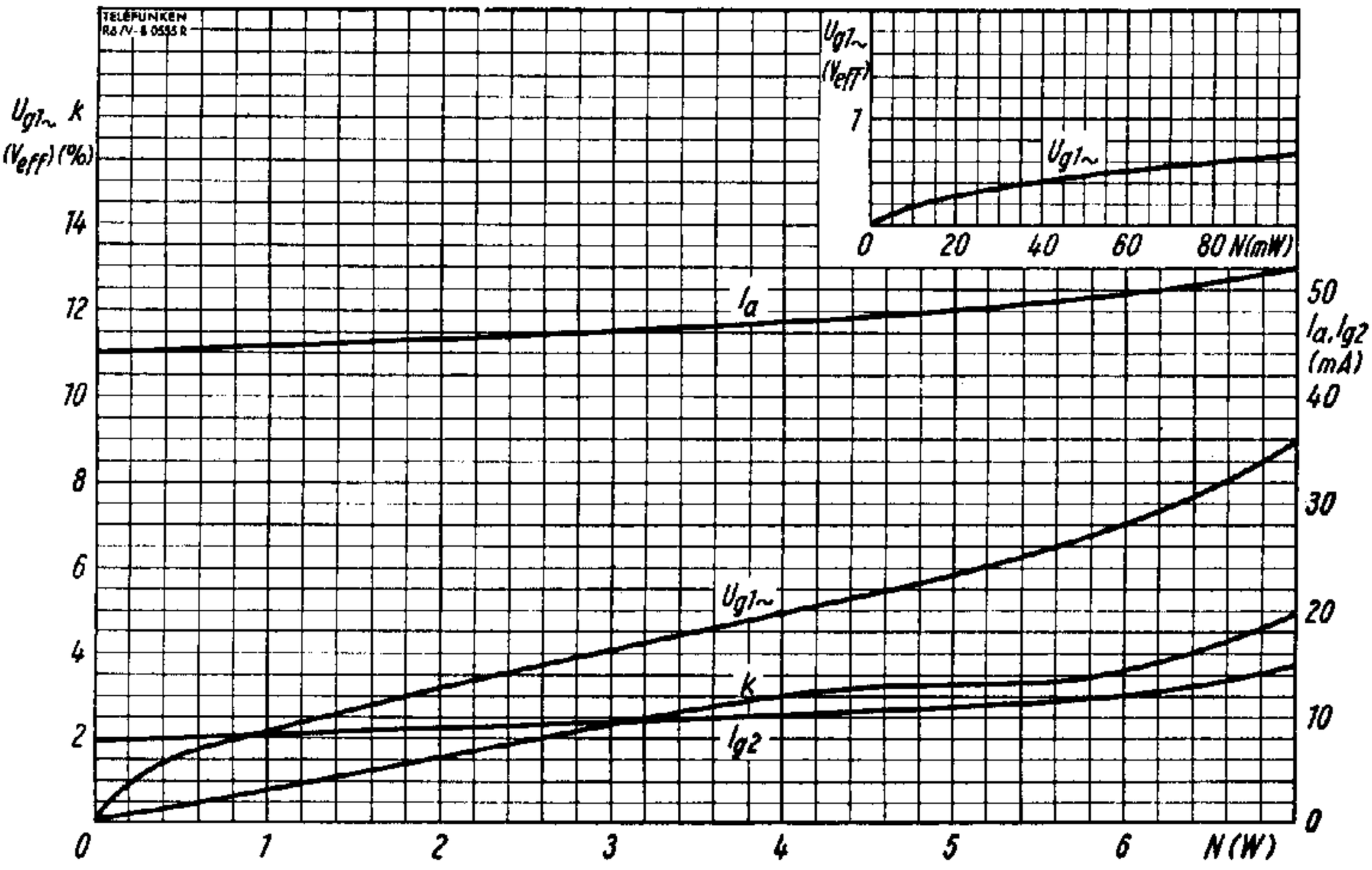
Eintakt-A-Betrieb · Class A-amplifier

I_a, I_{g2}, $U_{g1\,eff}$, k = f (N)
$U_a = U_{g2}$ = 250 V
R_a = 10 kΩ
R_k = 320 Ω



I_a, I_{g2}, $U_{g1\,eff}$, k = f (N)
$U_a = U_{g2}$ = 200 V

R_{aa} = 10 kΩ
R_k = 360 Ω je Röhre



I_a, I_{g2}, $U_{g1\,eff}$, k = f (N)
$U_a = U_{g2}$ = 250 V

R_{aa} = 10 kΩ
R_k = 360 Ω je Röhre

2 Röhren in Gegentakt-AB-Betrieb · 2 tubes push-pull class AB

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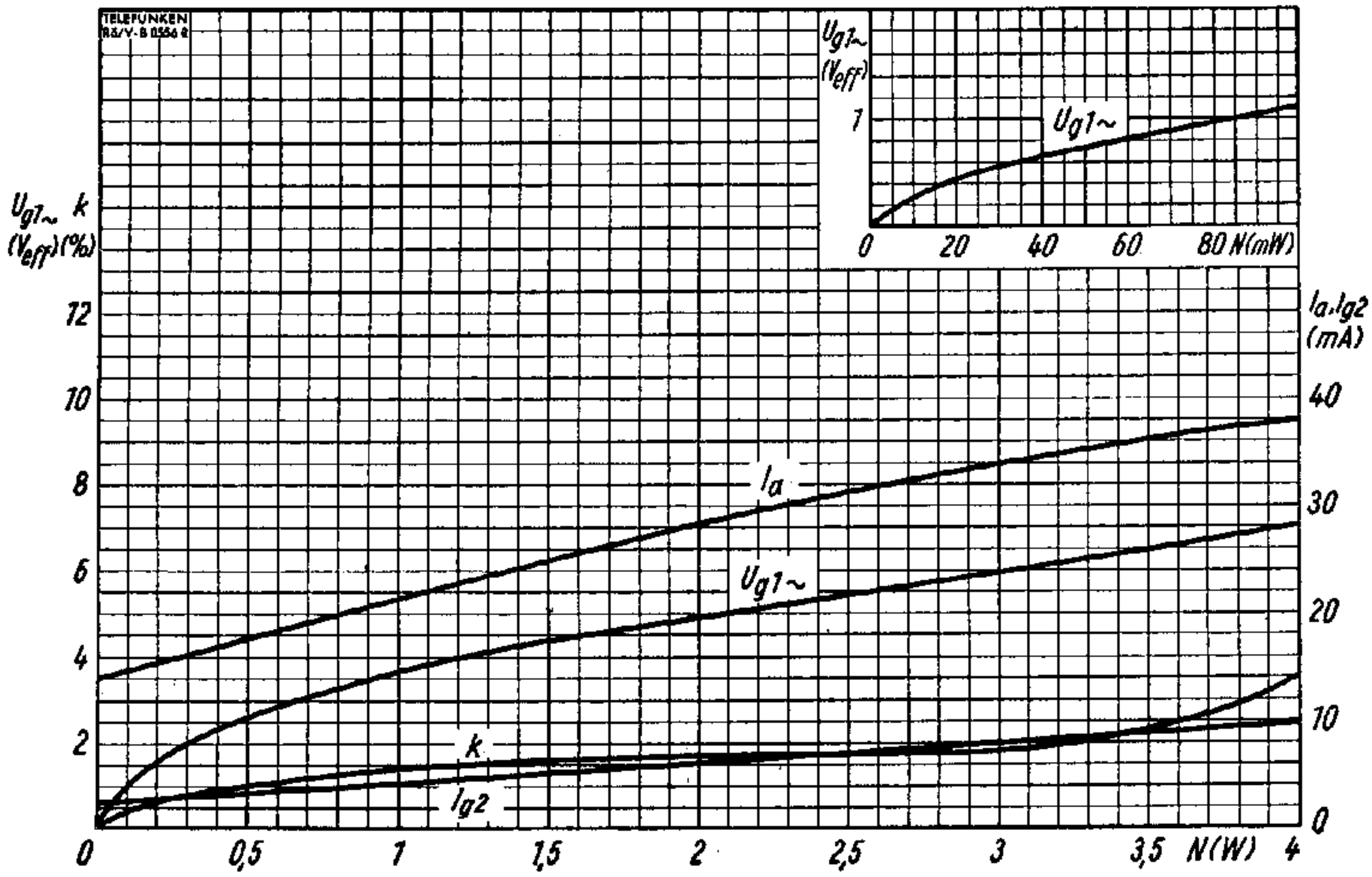
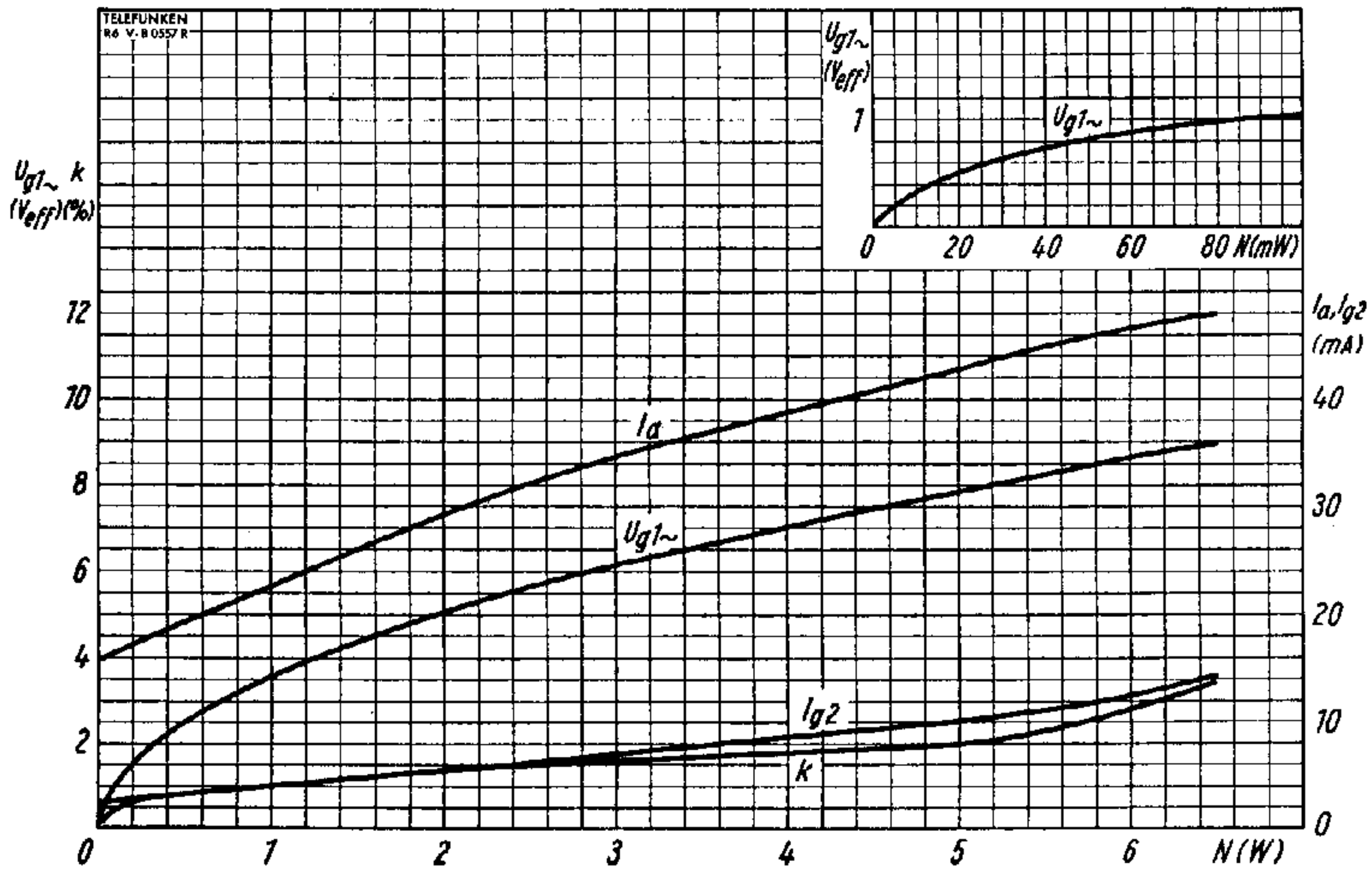
TELEFUNKEN



$I_a, I_{g2}, U_{g1\,eff}, k = f(N)$ $\quad U_{g1} = -10$ V

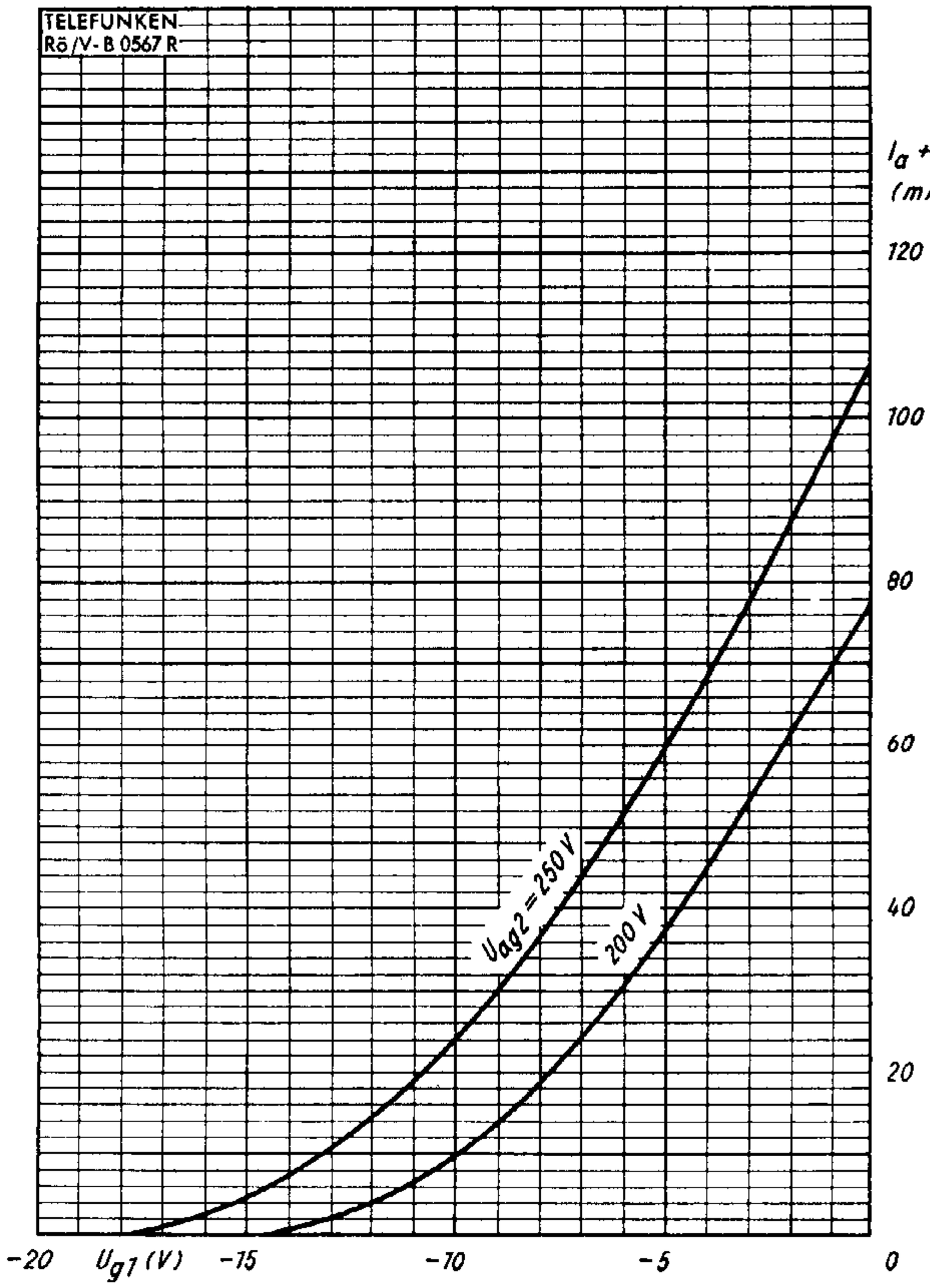
$U_a = U_{g2} = 200$ V $\quad R_{aa} = 10$ kΩ



$I_a, I_{g2}, U_{g1\,eff}, k = f(N)$ $\quad U_{g1} = -13$ V

$U_a = U_{g2} = 250$ V $\quad R_{aa} = 10$ kΩ

2 Röhren in Gegentakt-B-Betrieb · 2 tubes push-pull class B



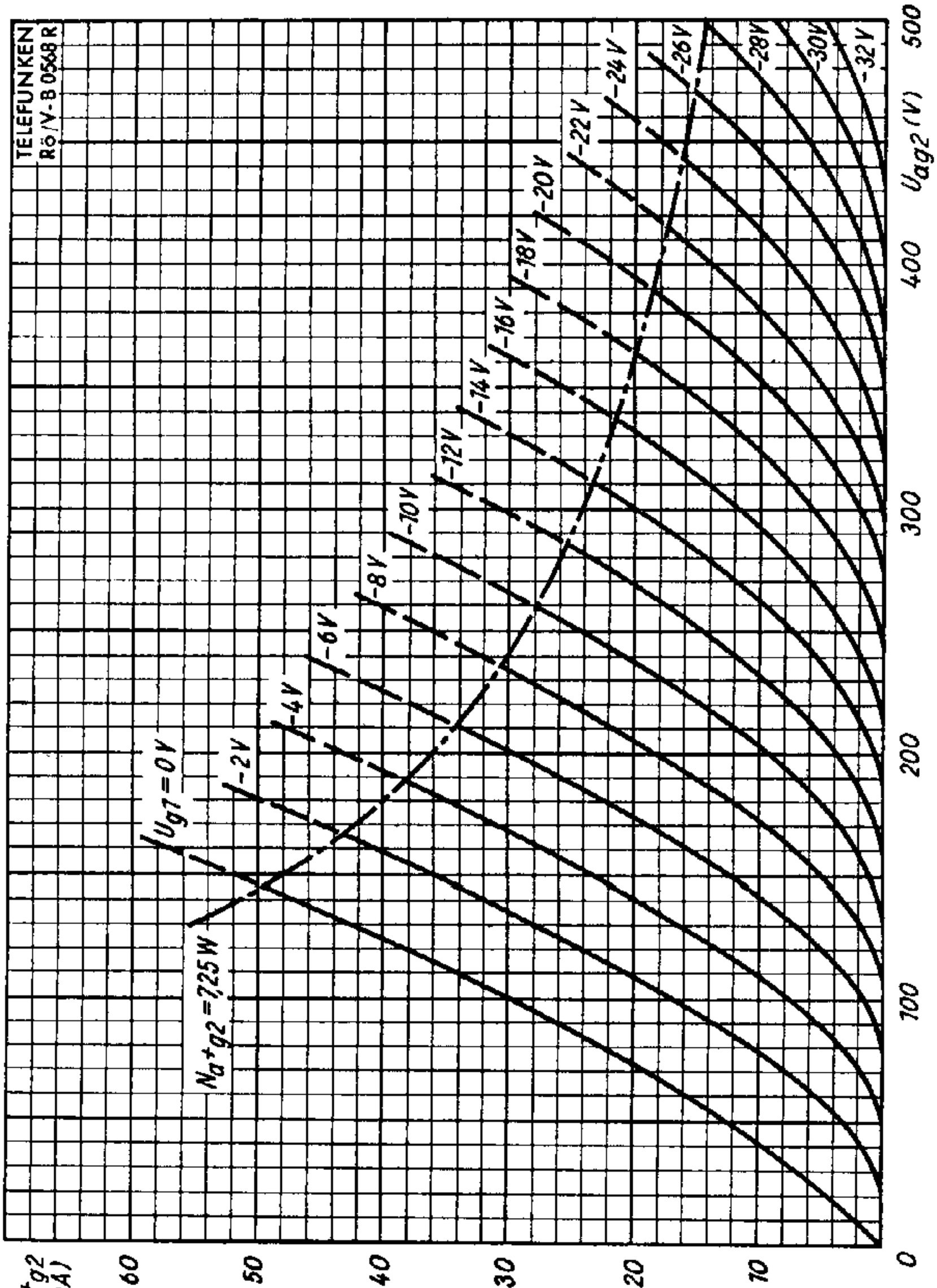
Als Triode geschaltet · As triode connected

g_2 an a

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

U_{ag2} = Parameter

TELEFUNKEN



Als Triode geschaltet · As triode connected

g_2 an a

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

U_{g1} = Parameter

TELEFUNKEN

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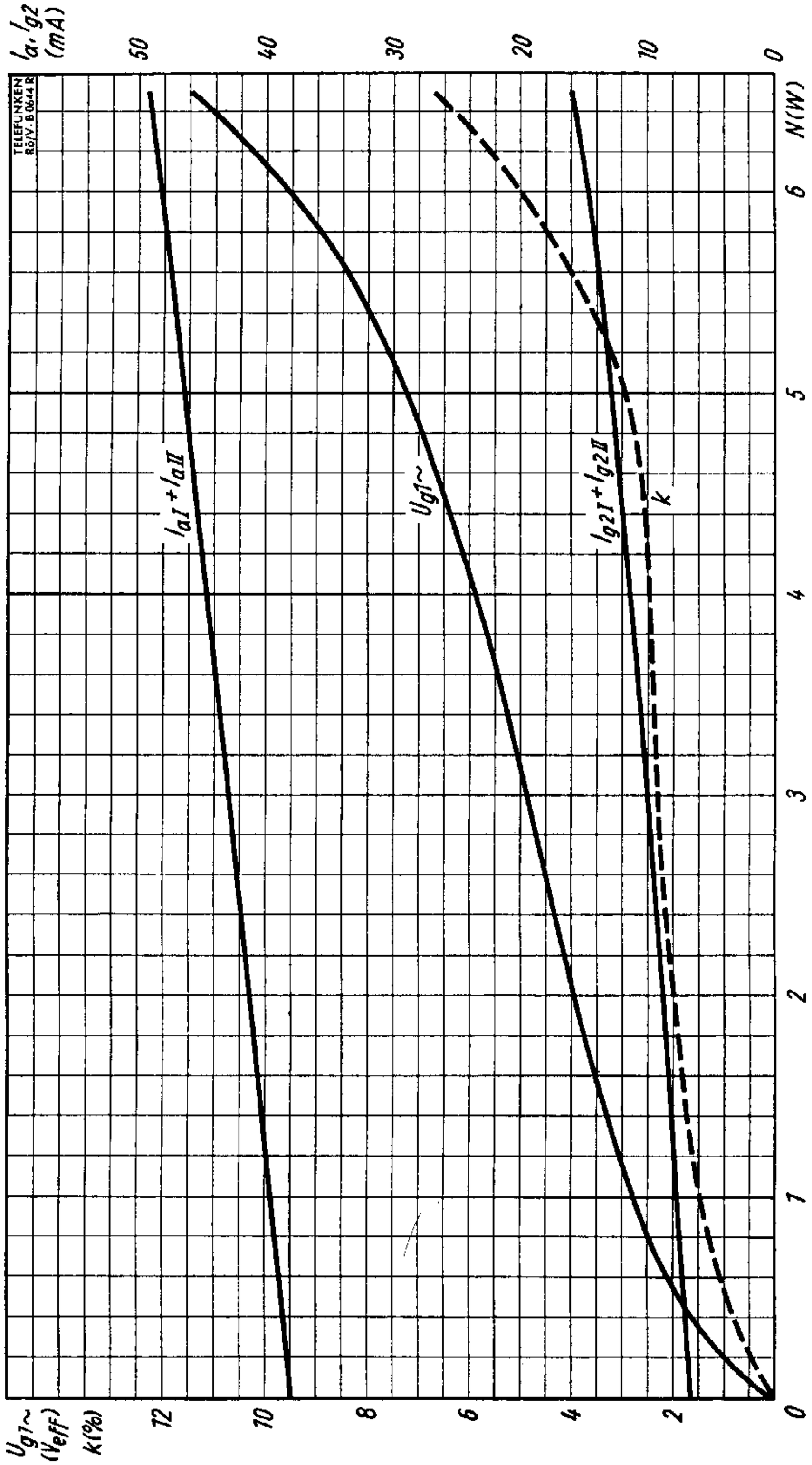

2 Röhren in Gegentakt-AB-Betrieb, R_k gemeinsam
2 tubes push-pull class AB, R_k common

R_k = 220 Ω
R_{aa} = 10 kΩ
U_a = 250 V
U_{g2} = 250 V

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