Netzröhre für GW-Heizung
indirekt geheizt
Serienspeisung

DC-AC-Heating
indirectly heated
connected series

TELEFUNKEN

PFL 200

Pentode/Endpentode
Power pentode

Vorläufige technische Daten · Tentative data

Pentode für getastete Schwundregelung, Impulsabtrennstufen, Ton-ZF-Verstärker. Endpentode für Video-Endstufen.
Pentode for gated AGC, pulse separators, audio IF amplifiers.
Power pentode for video power stages.

U_f	ca. 17	V
I_f	**300**	mA

Normierte Anheizzeit · Normalize heating-up time

Meßwerte · Measuring values

Pentode (System: F)

U_a	**150**	V
U_{g2}	**150**	V
U_{g1}	**−2,1**	V
I_a	10	mA
I_{g2}	3	mA
S	8,5	mA/V
R_i	150	kΩ
$\mu_{g2/g1}$	36	

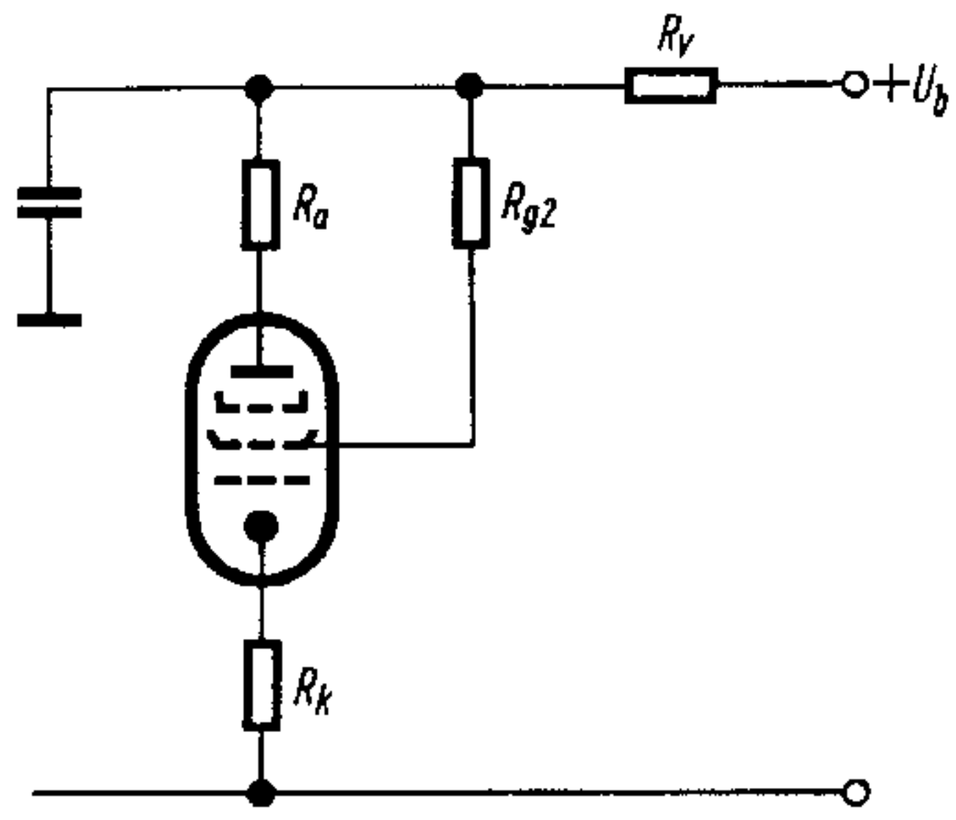
Endpentode (System: L)

U_a	**170**	V
U_{g2}	**170**	V
U_{g1}	**−2,6**	V
I_a	30	mA
I_{g2}	7	mA
S	21	mA/V
R_i	33	kΩ
$\mu_{g2/g1}$	35	

Betriebswerte · Typical operation

als Video-Endröhre · as video-power stage
System: L

U_b	**220**		V
R_v	**560**		Ω
R_a	**2**		kΩ
R_{g2}	**1**		kΩ
R_k	**6,8**		Ω
$U_{in\ sp\ sp}$ [1]	(−0,4 ... −3)	+ (−3 ... −4)	V
$U_{out\ sp\ sp}$	80	+ 20	V
$\frac{S_{-3}}{S_{-0,4}}$ [2]	≧ 0,7		
$\frac{S_{-4}}{S_{-0,4}}$ [2]	≧ 0,5		



[1] Momentanwerte von Bildinhalt und Synchronimpuls.
Momentary value of picture information and sync. pulse.

[2] Verhältnis der dynamischen Steilheiten an den Aussteuerungsgrenzen für Bildinhalt und Synchronimpuls als Maß für die Verzerrung.
Ratio of dynamic transconductances at modulation limits for picture content and sync. pulse as measure for distortion.

TELEFUNKEN

Kapazitäten · Capacitances

System: F

c_e	10		pF
c_a	10,5		pF
$c_{g1/a}$	0,14		pF
$c_{g1/f}$	<	0,15	pF

System: L

c_e	13		pF
c_a	7		pF
$c_{g1/a}$	0,1		pF

zwischen System: F und System: L

between system: F and system: L

$c_{aF/aL}$	<	0,15	pF
$c_{g1F/g1L}$	<	0,01	pF
$c_{aF/g1L}$	<	0,005	pF
$c_{aL/g1F}$	<	0,1	pF

Nennwert-Grenzdaten · Design centre ratings

System: F

U_{ao}	**±550**	V
U_a	**±250**	V
N_a	**1,5**	W
U_{g2o}	**550**	V
U_{g2}	**250**	V
N_{g2}	**0,5**	W
I_k	**15**	mA
R_{g1} [1])	**1**	MΩ
$U_{f/k}$	**200**	V
$R_{f/k}$ [2])	**20**	kΩ

System: L

U_{ao}	**550**	V
U_a	**250**	V
N_a	**5**	W
U_{g2o}	**550**	V
U_{g2}	**250**	V
N_{g2} [3])	**2,5**	W
I_k [3])	**60**	mA
R_{g1} [1])	**0,5**	MΩ
$U_{f/k}$	**200**	V
$R_{f/k}$	**20**	kΩ

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[1]) U_{g1} mittels R_k
U_{g1} by R_k

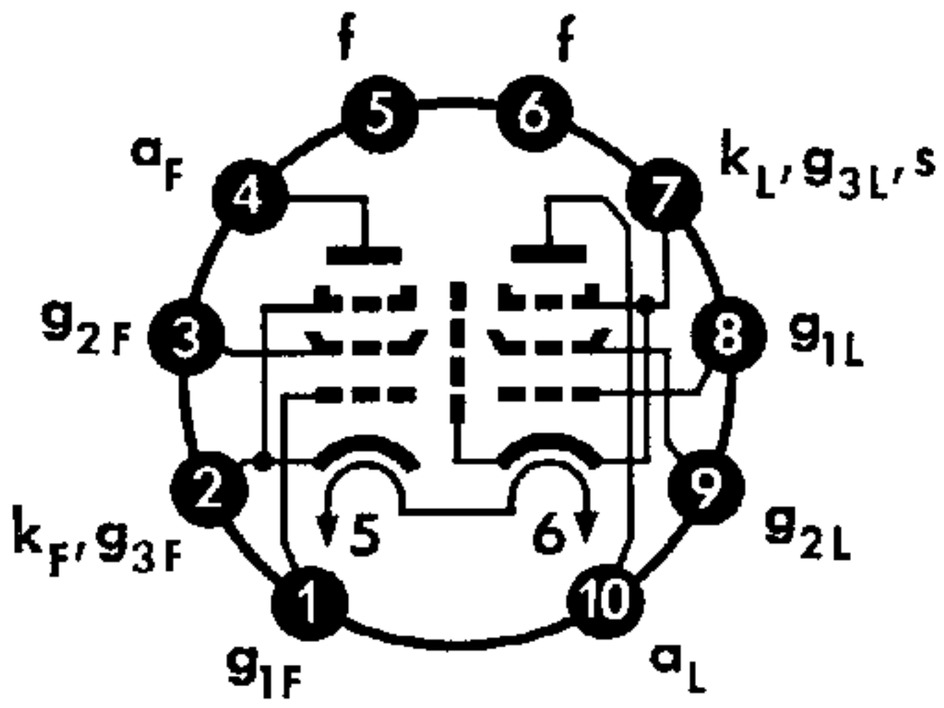
[2]) max. 50 kΩ für getastete Schwundregelung.
max. 50 kΩ for gated AGC

[3]) Bei fehlendem Eingangssignal darf während max. 1 Stunde N_{g2} auf max. 3,2 W und I_k auf max. 85 mA ansteigen.
When no input signal is present N_{g2} may rise to max. 3.2 W and I_k to max. 85 mA during max. 1 hour.

TELEFUNKEN

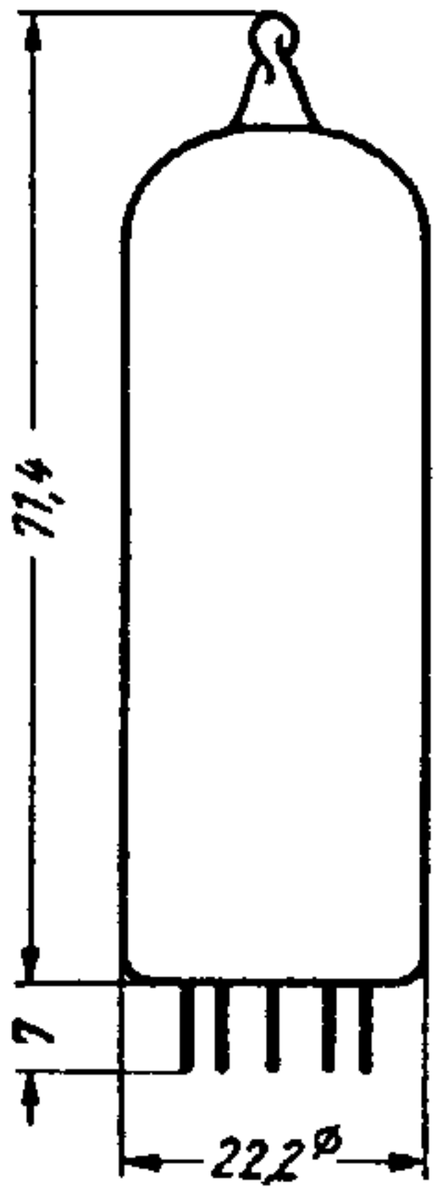
PFL 200

Sockelschaltbild
Base connection



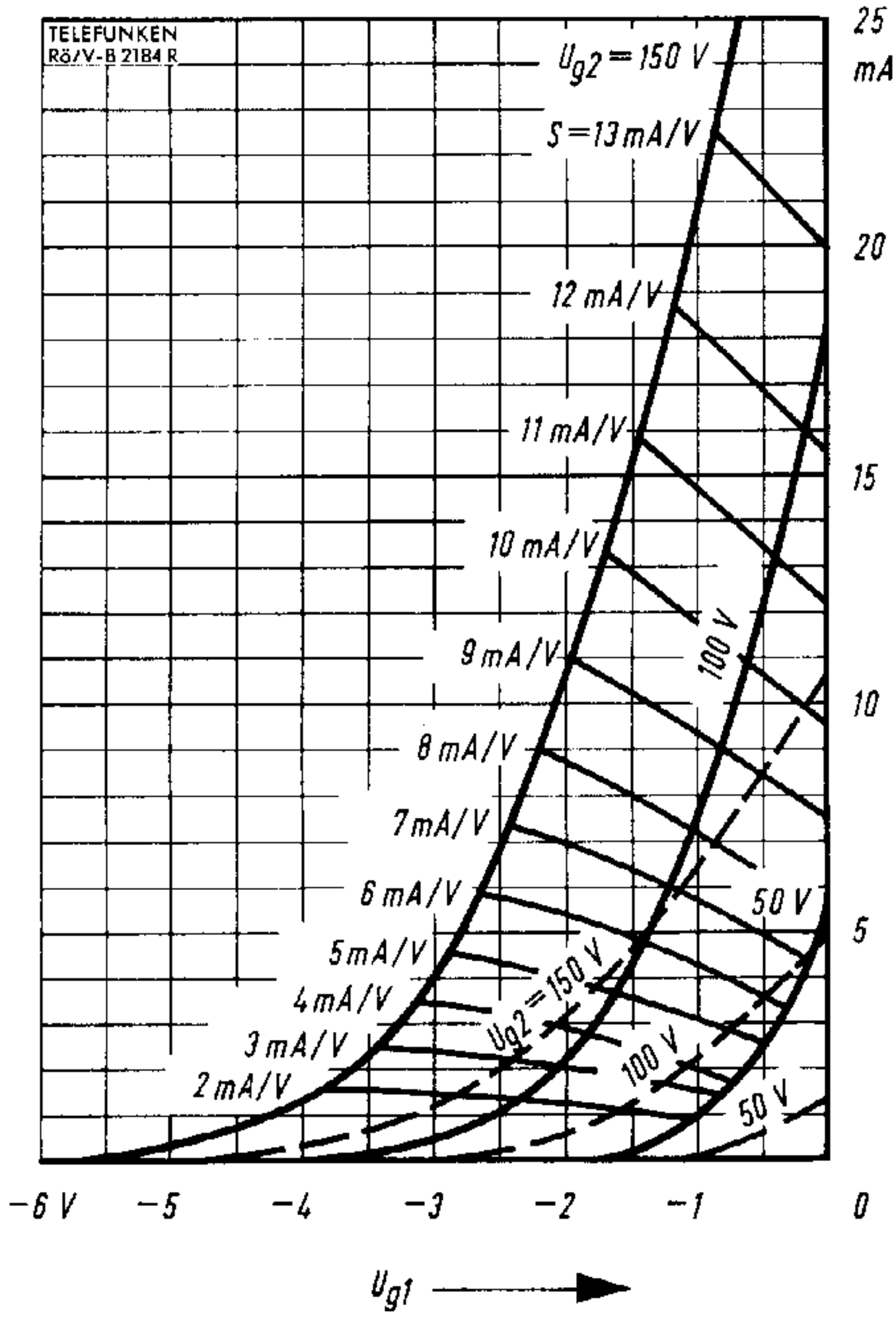
Dekal

max. Abmessungen
max. dimensions



Gewicht · Weight
max. 20 g

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



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

$U_a = 150\ V$

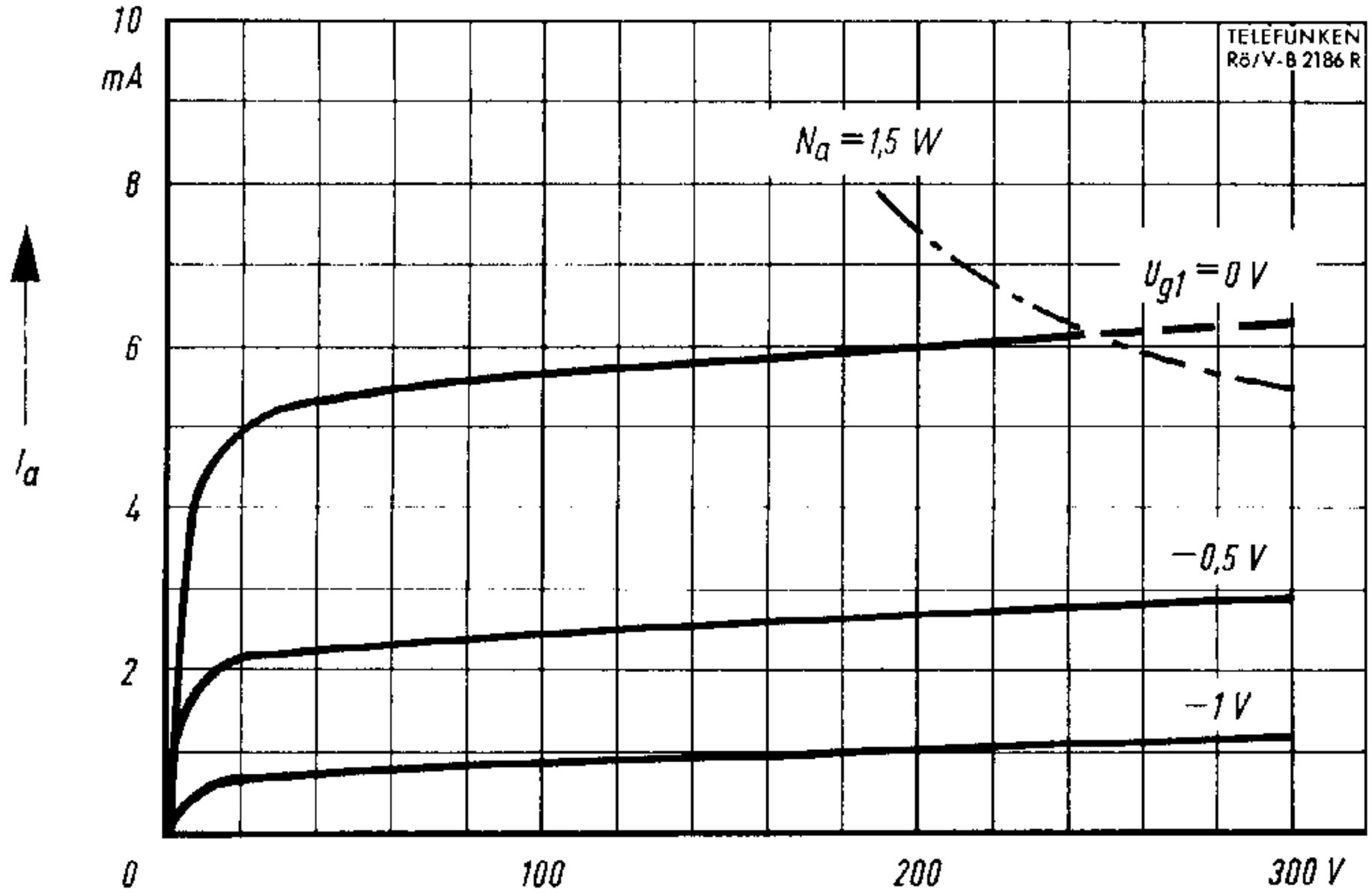
U_{g2}, S = Parameter

——— I_a ---- I_{g2}

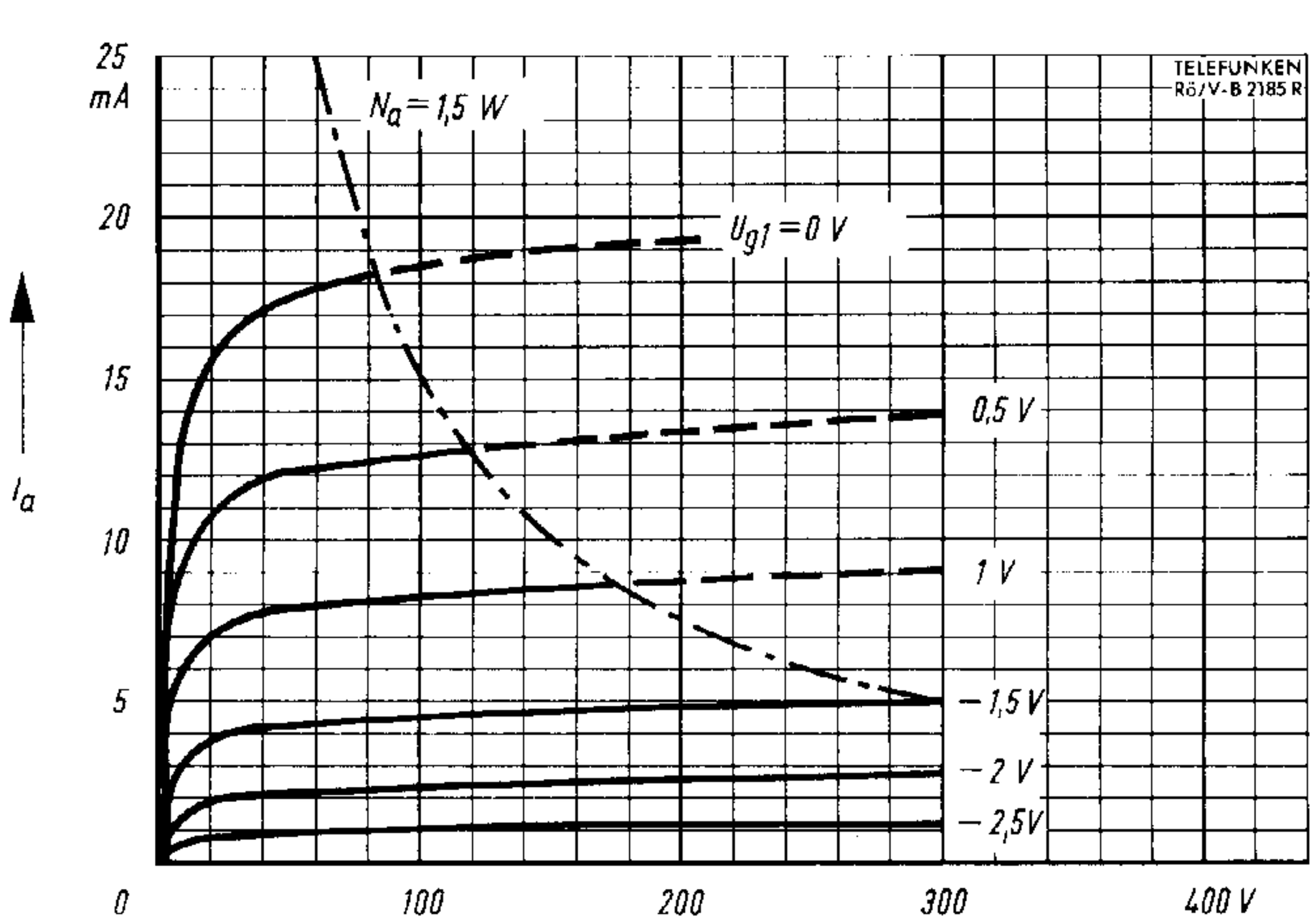
Pentode (F-System)

PFL 200

TELEFUNKEN



$I_a = f(U_a)$
$U_{g2} = 50$ V
U_{g1} = Parameter

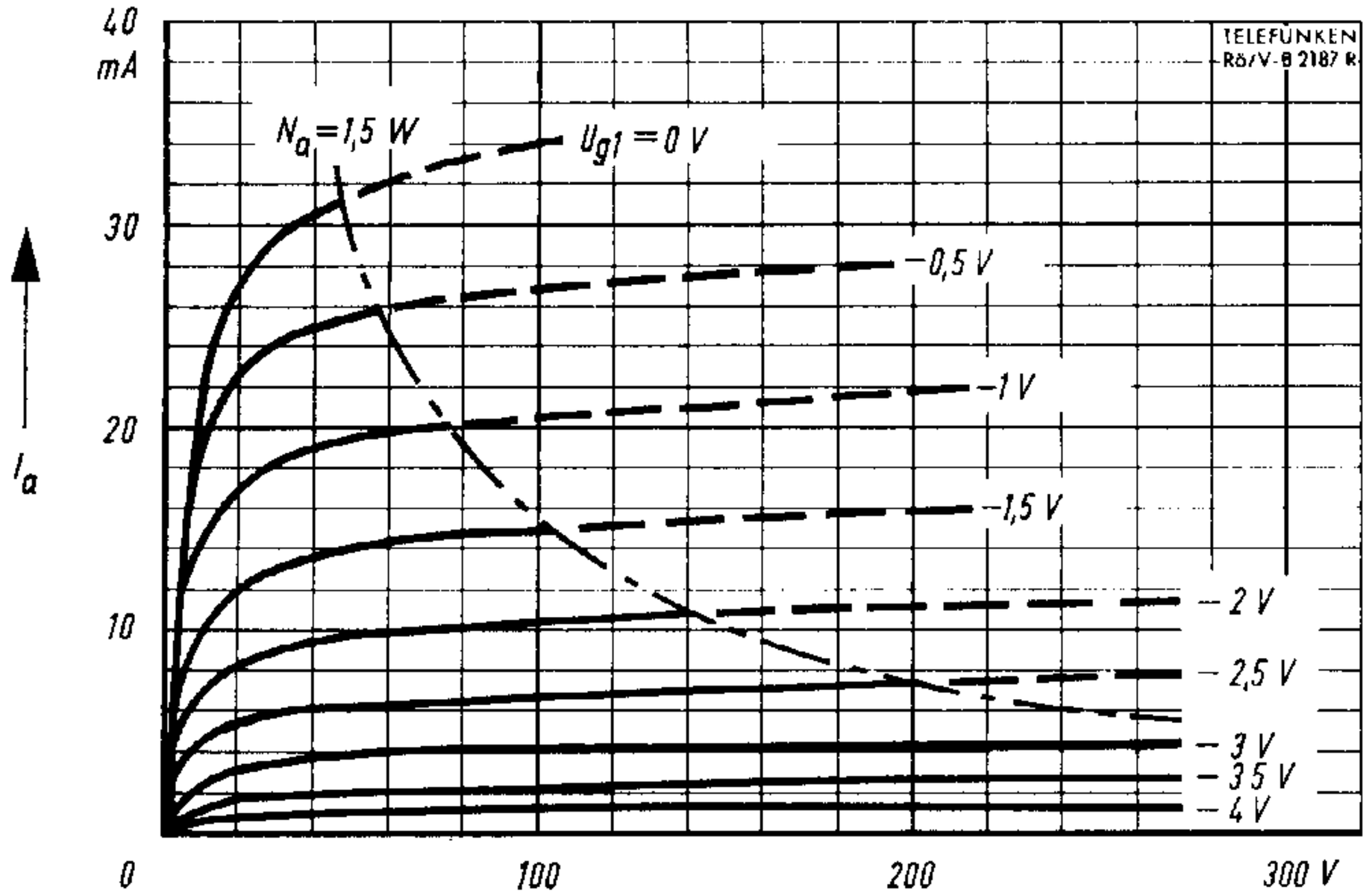


$I_a = f(U_a)$
$U_{g2} = 100$ V
U_{g1} = Parameter

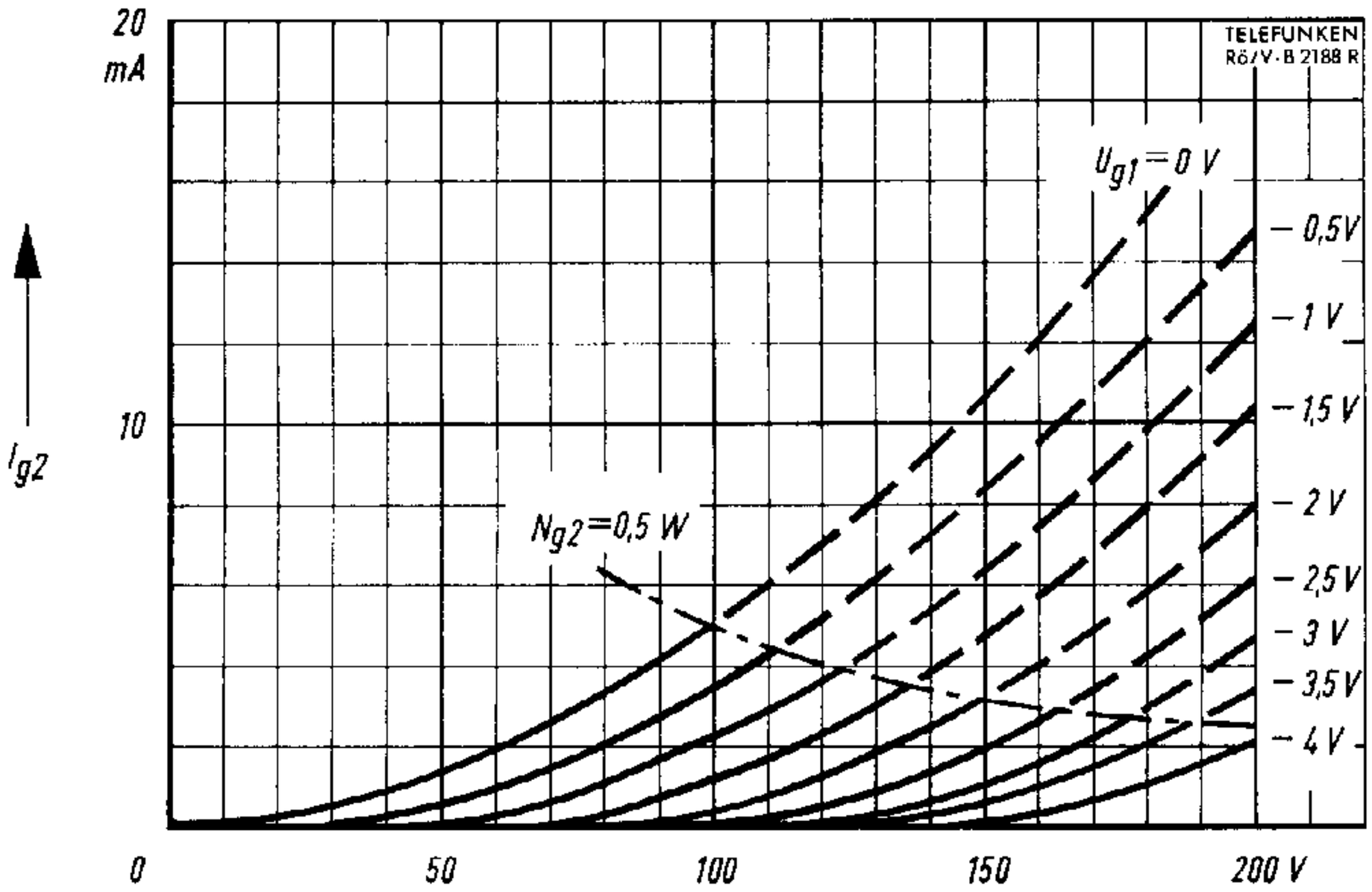
Pentode (F-System)

TELEFUNKEN

PFL 200



$I_a = f(U_a)$
U_{g2} = 150 V
U_{g1} = Parameter

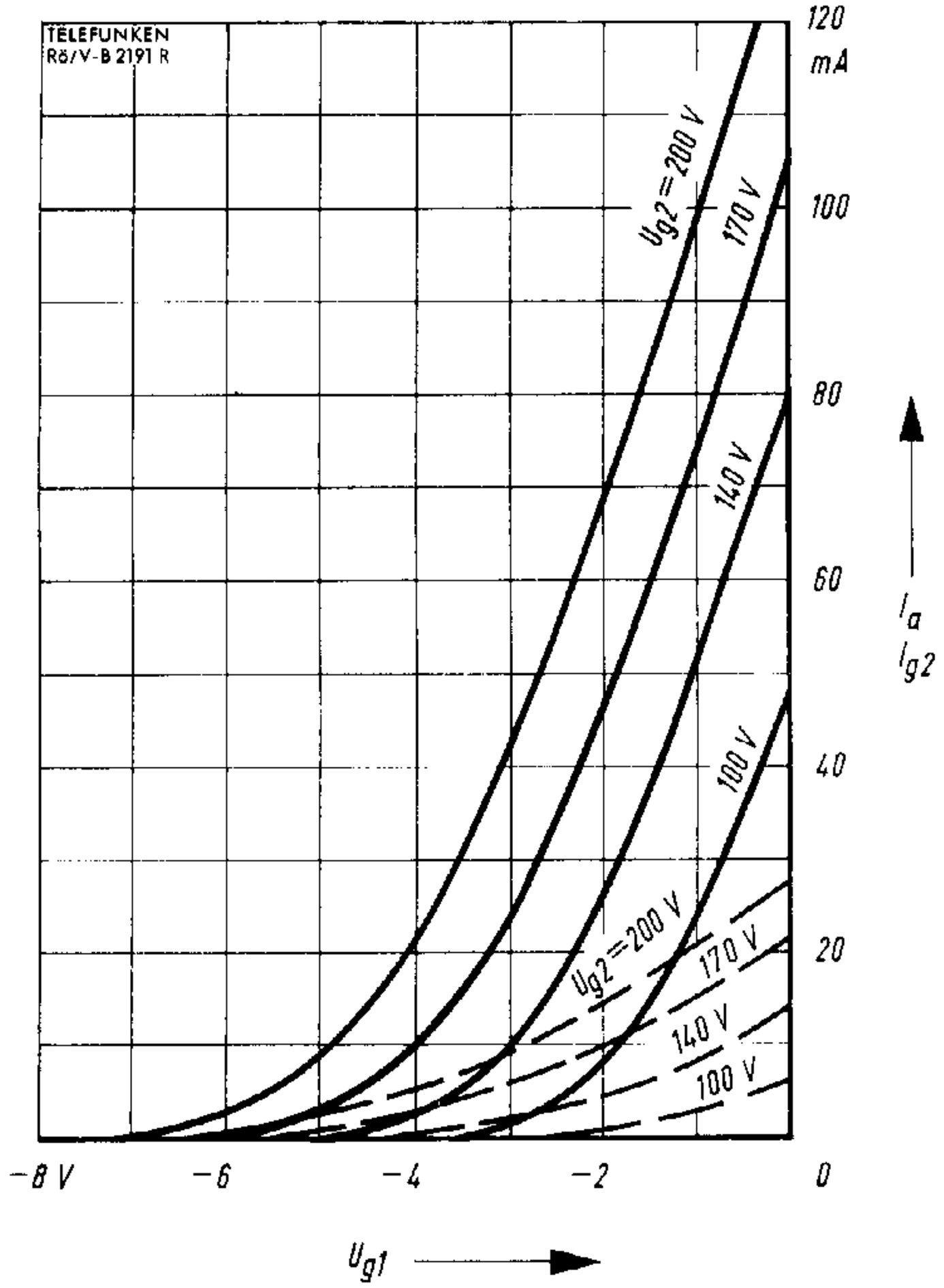


$I_{g2} = f(U_{g2})$
U_a = 150 V
U_{g1} = Parameter

Pentode (F-System)

PFL 200

TELEFUNKEN



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

$U_a = 200\ V$

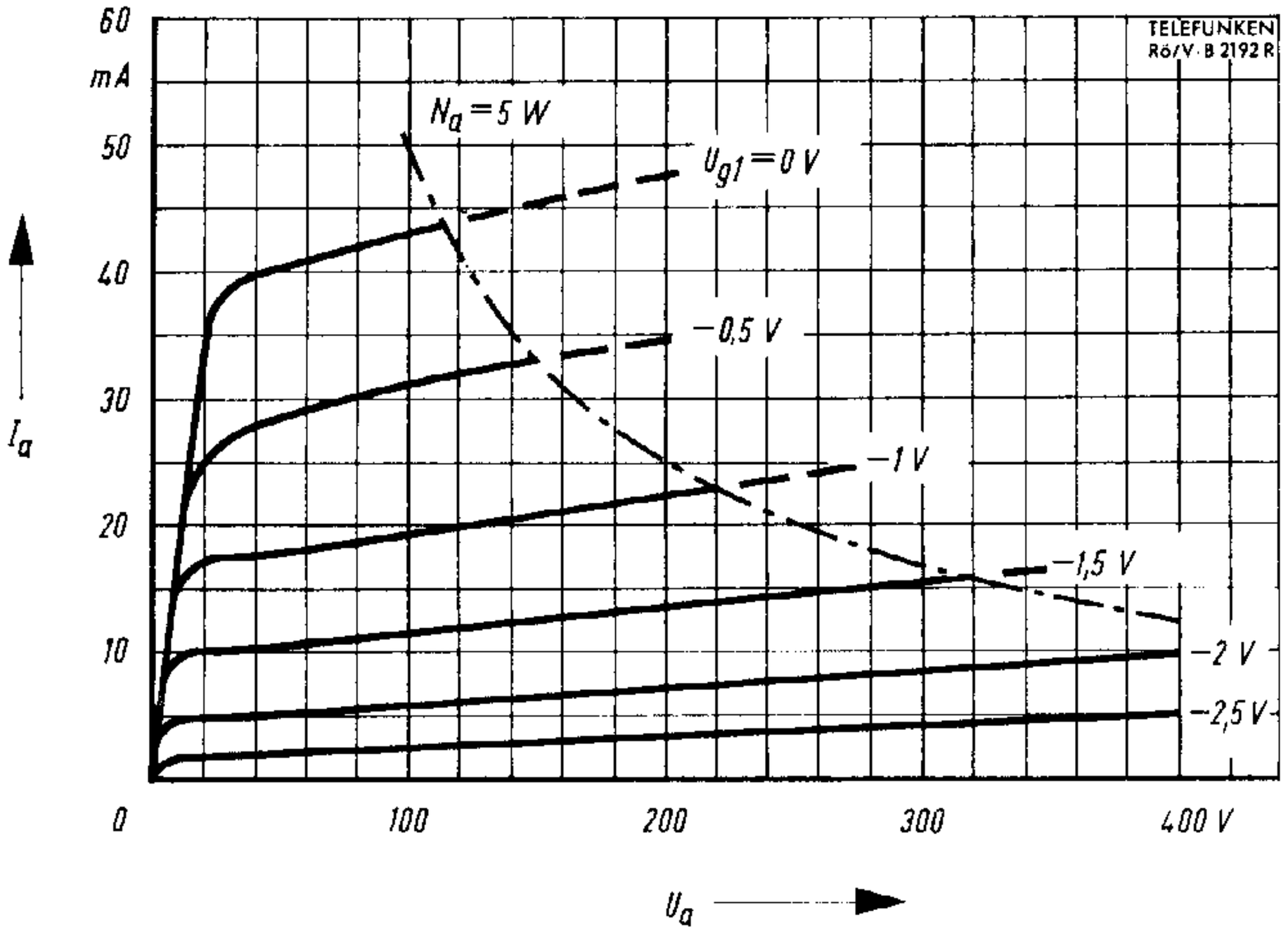
$U_{g2} =$ Parameter

——— I_a – – – – I_{g2}

Endpentode (L-System)

TELEFUNKEN

PFL 200



$I_a = f(U_a)$

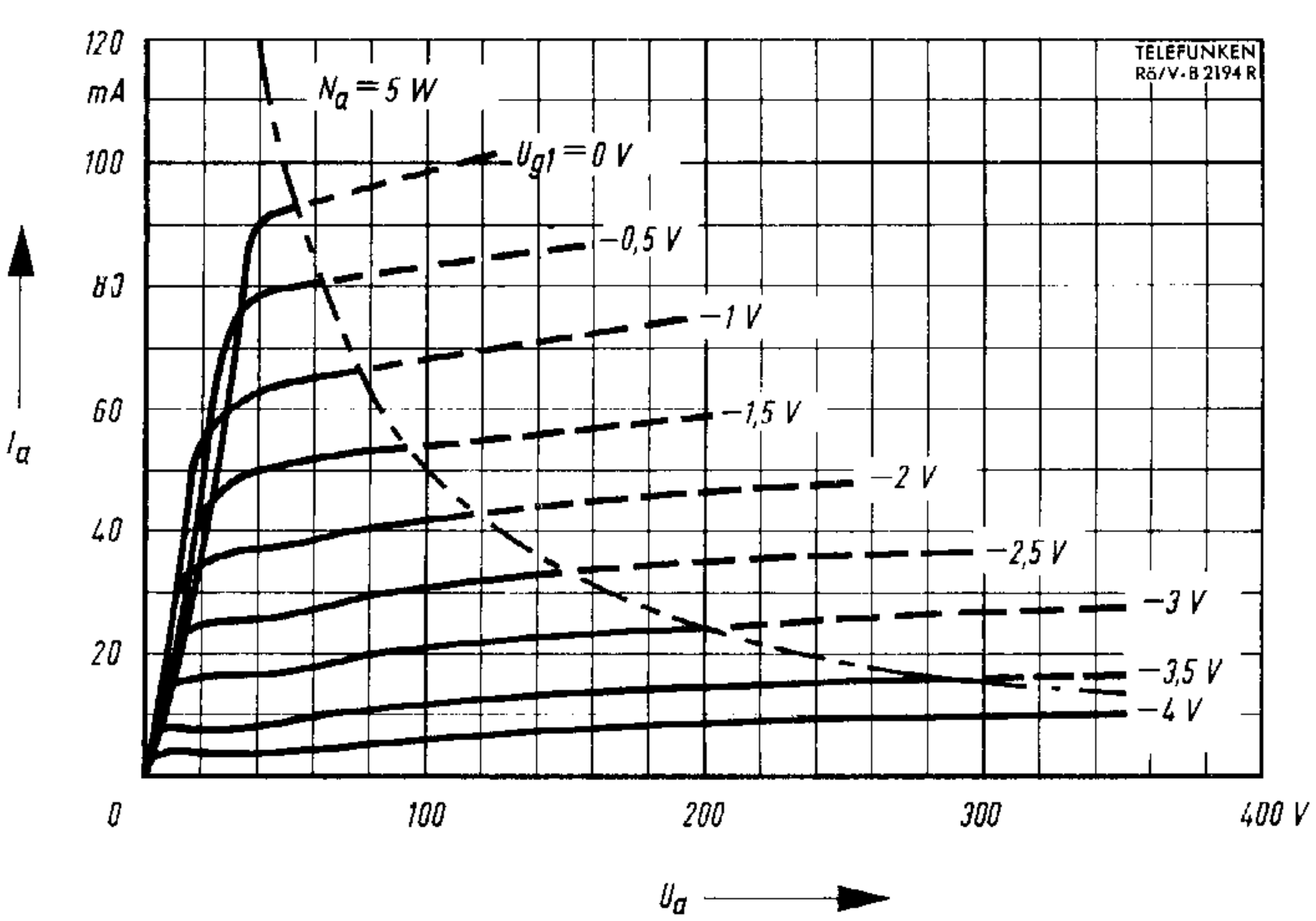
$U_{g2} = 100$ V

$U_{g1} =$ Parameter

Endpentode (L-System)

PFL 200

TELEFUNKEN



$I_a = f(U_a)$
$U_{g2} = 170$ V
$U_{g1} =$ Parameter

Endpentode (L-System)