

OUTPUT PENTODE
PENTHODE DE SORTIE
ENDPENTODE

Heating : indirect by A.C. or D.C.
parallel supply

Chauffage: indirect par C.A. ou C.C.
alimentation parallèle

Heizung : indirekt durch Wechsel-
oder Gleichstrom; Paral-
lelspeisung

$$V_f = 6,3 \text{ V}$$

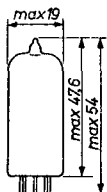
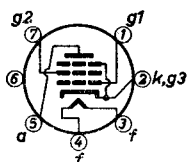
$$I_f = 200 \text{ mA}$$

$$T_h = 12 \text{ sec}$$

Dimensions in mm

Dimensions en mm

Abmessungen in mm



Base, culot, Sockel: MINIATURE

Capacitances

Capacités

Kapazitäten

	1)	2)
C_{g1}	= 4,0	6,6 pF
C_a	= 3,75	4,0 pF
C_{ag1}	< 0,25	0,25 pF

Typical characteristics

Caractéristiques types

Kenndaten

V_a	=	250 V
V_{g2}	=	250 V
I_a	=	16 mA
I_{g2}	=	2,4 mA
S	=	2,6 mA/V
μ_{g2g1}	=	12
R_1	=	130

1) Without external shield
Sans blindage extérieur
Ohne äussere Abschirmung

2) With external shield
Avec blindage extérieur
Mit äusserer Abschirmung

Operating characteristics, class A
 Caractéristiques d'utilisation, classe A
 Betriebsdaten, Klasse A

V_a	=	250 V
V_{g2}	=	250 V
R_k	=	740 Ω
I_a	=	16 mA
I_{g2}	=	2,4 mA
R_a	=	16 k Ω
V_1 ($d_{tot} = 10\%$)	=	5,3 V_{eff}
W_o ($d_{tot} = 10\%$)	=	1,4 W

Operating characteristics class AB, two tubes
 Caractéristiques d'utilisation classe AB, deux tubes
 Betriebsdaten Klasse AB, zwei Röhren

V_a	=	250	V
V_{g2}	=	250	V
R_k	=	600	$\Omega^1)$
R_{a2}	=	24	k Ω
V_1	=	0	12 V_{eff}
I_a	=	2x11	2x12,8 mA
I_{g2}	=	2x1,6	2x4,1 mA
W_o	=	0	4 W
d_{tot}	=	-	3,2 %

Operating characteristics class B, two tubes
 Caractéristiques d'utilisation classe B, deux tubes
 Betriebsdaten Klasse B, zwei Röhren

V_a	=	250	V
V_{g2}	=	250	V
V_{g1}	=	-19	V
R_{a2}	=	20	k Ω
V_1	=	0	13 V_{eff}
I_a	=	2x5	2x16 mA
I_{g2}	=	2x0,65	2x4,5 mA
W_o	=	0	4,8 W
d_{tot}	=	-	3,3 %

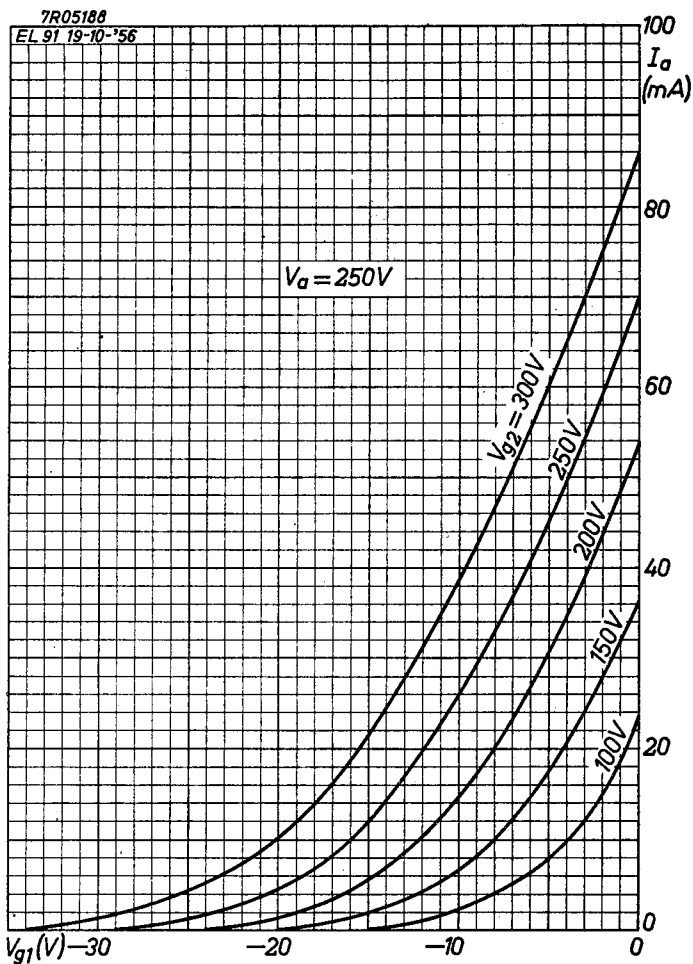
¹⁾ See page 3; voir page 3; siehe Seite 3

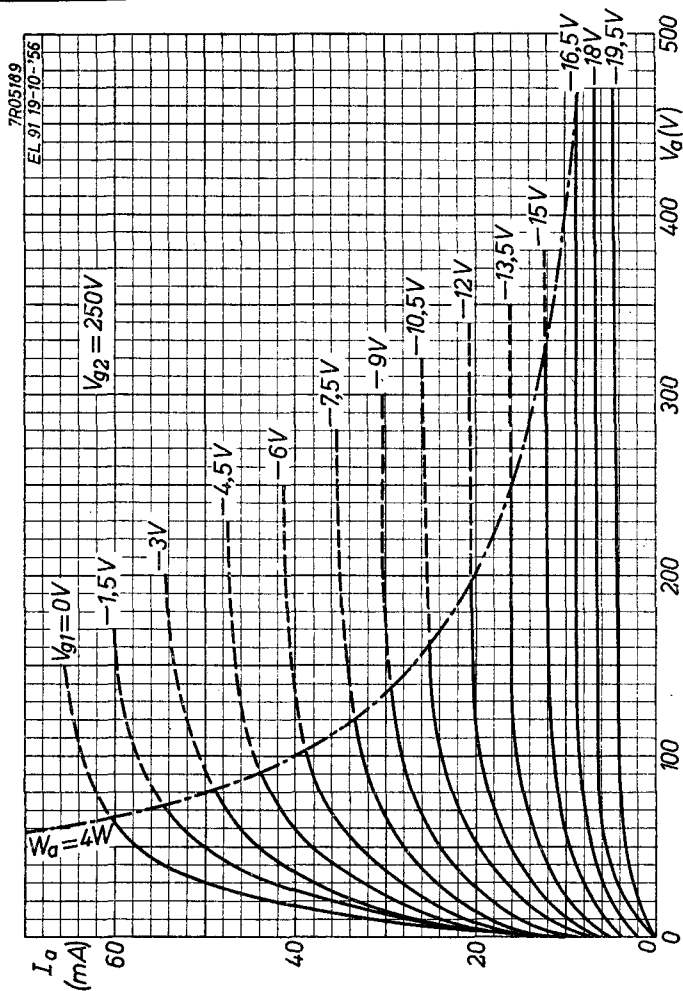
Limiting values
Caractéristiques limites
Grenzdaten

V _{ba}	= max. 550 V
V _a	= max. 250 V
W _a	= max. 4 W
V _{bg2}	= max. 550 V
V _{g2}	= max. 250 V
W _{g2}	= max. 0,6 W
I _k	= max. 25 mA
V _{kf} (k pos.; f neg.)	= max. 150 V
R _{g1}	= max. 0,7 MΩ ²⁾

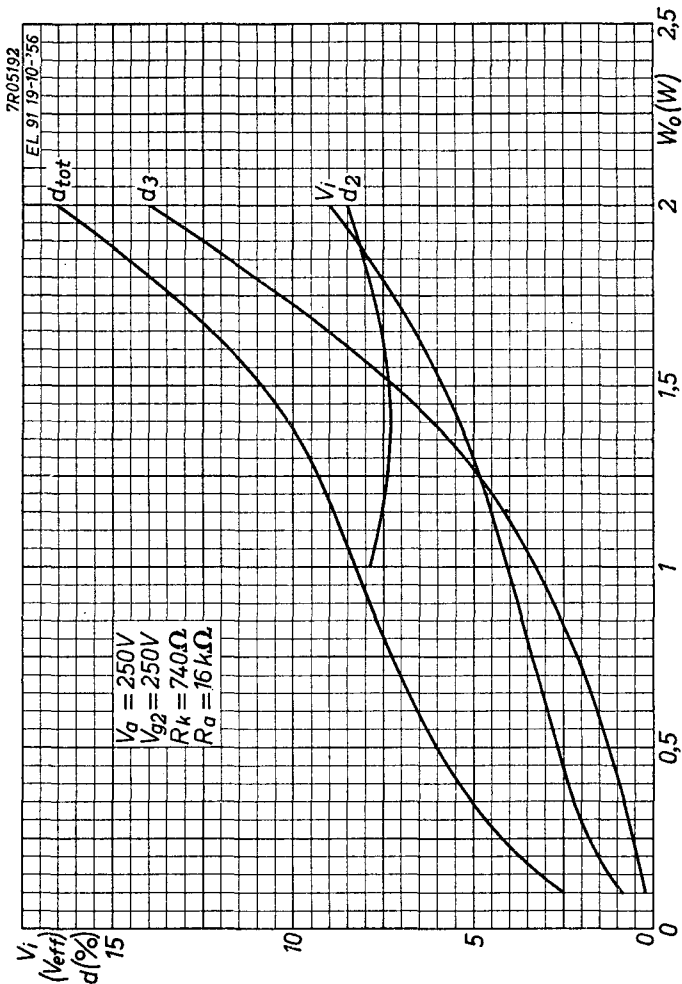
¹⁾ Common cathode bias resistor
Résistance cathodique commune
Gemeinsamer Katodenwiderstand

²⁾ With automatic grid bias
Avec polarisation automatique
Mit automatischer Gittervorspannung



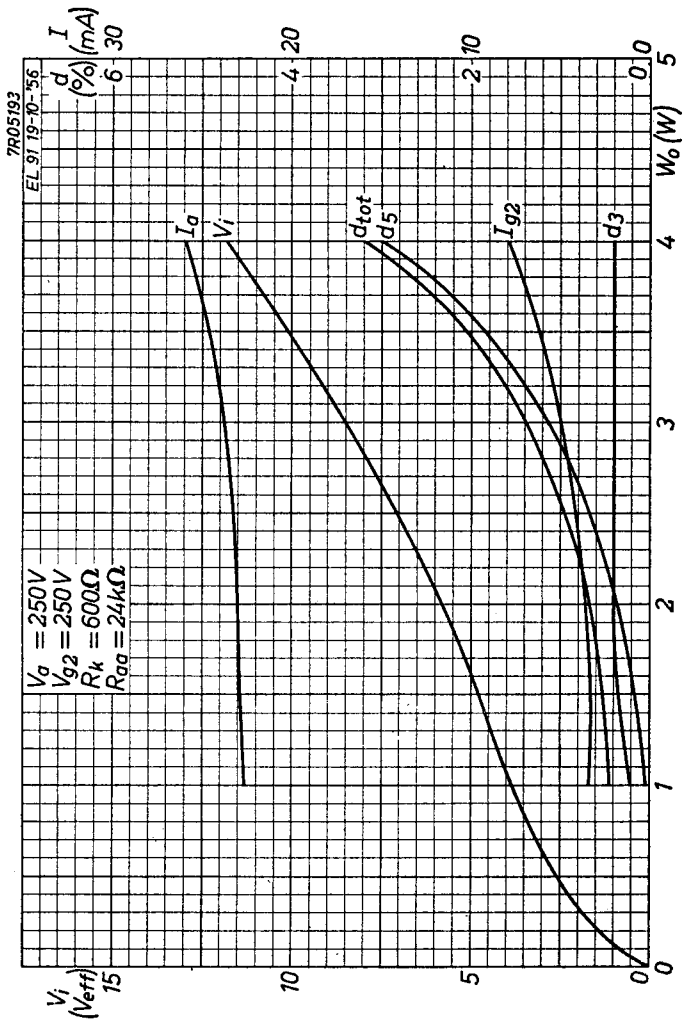
EL 91**PHILIPS**

B



10.10.1957

c

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D



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page	sheet	date
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2	2	1957.03.03
3	3	1957.03.03
4	A	1956.10.10
5	B	1956.10.10
6	C	1957.10.10
7	D	1957.10.10
8	FP	1999.07.10