OUTPUT PENTODE PENTHODE DE SORTIE ENDPENTODE

Heating:

Heizung:

indirect by A.C. or D.C.; parallel supply

Chauffage: indirect par C.A. ou C.C.;

alimentation en parallèle indirekt durch Wechsel-

oder Gleichstrom;

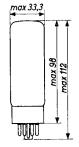
Parallelspeisung

Dimensions in mm Dimensions en mm Abmessungen in mm



Base Culot OCTAL Sockel

Capacitances Capacités Kapazitäten



Ir =

Socket 5903/13 Support Fassung

 $C_{g1} = 15.2 pF$ 8,4 pF C2

Cag1 ( 1,1 pF Cg1f ( 1.0 pF

Ckf

10 pF

When using a sinusoidal input signal care should be taken not to exceed the maximum Remark admissible Wg2.

Observation En cas d'un signal d'entrée sinusoïdal faut faire attention à ne pas dépasser la valeur maximum admissible de Wg2.

Bemerkung Bei Verwendung eines sinusförmigen gangssignales muss darauf geachtet werden dass der maximal zulässige Wert von  $\Psi_{g2}$ nicht überschritten wird.

## **PHILIPS**

Onemating observation older A	
Operating characteristics class A	
Comportanisticuos diutilication elecas	
Caractéristiques d'utilisation classe	A
Retriebedsten Vlagge A	

$v_b$	=	265	265	V
$v_a$	=	250	250	V
Rg2	=	2	0	kΩ
Vg3	=	0	0	A
Vg1	=	-14,5	-13,5	٧
Ia	=	70	100	mA
Ig2	=	10	14,9	mA
S	=	9,0	11	mA/V
µg2g1	=	11	11	
Ri	=	18	15	kΩ
Ra.	==	3,0	2,0	kΩ
٧i	=	9,3	8,7	$v_{\tt eff}$
Wo	=	8	11	W
dtot	=	10	10	%
$V_i (W_0 = 50 \text{ mW})$	=	0,65	5 و ٥	$v_{\tt eff}$

Operating characteristics class B Caractéristiques d'utilisation classe B Betriebsdaten Klasse B

R <sub>g2</sub>	3		1000			470		Ω 1)
Vg1	=		-38			-32		٧
$v_{g3}$	=		٠٠			, 0		V
٧i	=	0	27	27	0	22,7	22,7	$v_{\tt eff}$
Raa	=	-	3,4	4,0	-	2,8	3,8	kΩ
٧b	=	425	425	400	375	375	350	٧
Va.	=	420	400	375	370	350	325	V
$I_{\mathbf{a}}$	=	2 <b>x</b> 30	2 <b>x</b> 120	2x100	2 <b>x</b> 35	2x120	2 <b>x</b> 93	mA
Ig2	=	2 <b>x</b> 4,4	2x25	2 <b>x</b> 25	2x4,7	2 <b>x</b> 25	2x25	m.A.
Wo	=	0	55	45	0	44	36	W
dtot	=	-	5	6	-	5	6	%

Common screen grid resistor; non decoupled Résistance de grille-écran commune; ne pas découplée Gemeinsamer Schirmgitterwiderstand; nicht entkoppelt

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R <sub>g2</sub>	=		750			750	Ω 1)
V <sub>g1</sub>	=		-36			-39	Λ
V <sub>g3</sub>	=		, 0		_	. 0	ν
$v_{\mathtt{i}}$	=	0	25,8	25,8	0	23,4	23,4 V <sub>eff</sub>
Raa	=	-	4	5	-	11	11 kΩ
V <sub>ba</sub>	=	500	500	475	800	800	750 V
٧a	==	<b>4</b> 9 <b>5</b>	475	450	<b>7</b> 95	775	725 V
V <sub>bg2</sub>	=	400	400	375	400	400	375 V
Ιa	=	2 <b>x</b> 30	2x125	2x102	2x25	2 <b>x</b> 91	2x84 mA
$I_{g2}$	=	2x4	2 <b>x</b> 25	2 <b>x</b> 25	2 <b>x</b> 3	2x19	2x19 mA
Wo	=	0	70	58	0	100	90 W
dtot	=	-	5	6	-	5	6 %

Operating conditions class AB Caractéristiques d'utilisation classe AB Betriebsdaten Klasse AB

Raa	=		3,4		kΩ
Rg2	=		470		$\Omega^{-1}$ )
$R_{\mathbf{k}}$	=		130		Ω
$v_{g3}$	=		, 0		V
Vi	=	0		21	$v_{\tt eff}$
٧b	=	375		375	A
$v_{a+v_{Rk}}$	æ	355		350	V
Ia	=	2x75		2 <b>x</b> 95	m.A
Ig2	=	2x11,5		2 <b>x</b> 22 <b>,</b> 5	mA
Wo	×	0		35	W
dtot	=	-		5	%

<sup>1)</sup>Common screen grid resistor; non decoupled Résistance de grille-écran commune; ne pas découplée Gemeinsamer Schirmgitterwiderstand; nicht entkoppelt

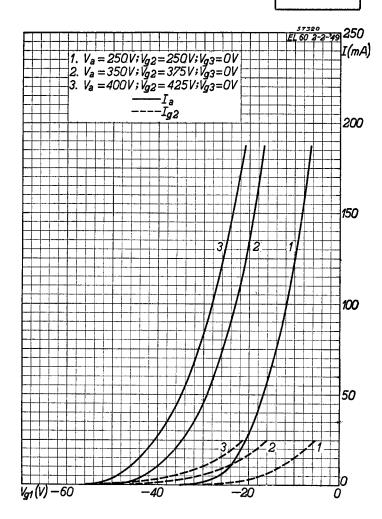
#### **PHILIPS**

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Operating conditions in triode connection (g2 connected to anode)
Caractéristiques d'utilisation en connexion triode (g2 relié à l'anode)
Betriebsdaten in Triodenschaltung (g2 verbunden mit Anode)
```

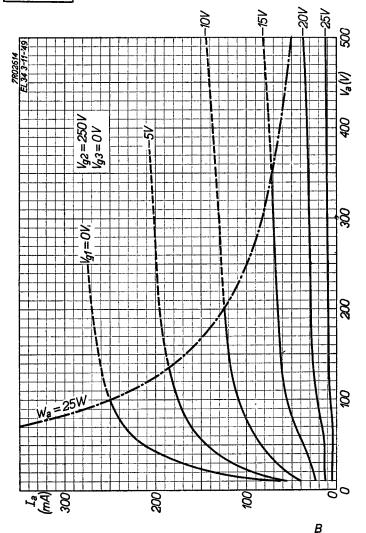
	C	lass A Lasse A Lasse A	Class Classe Klasse		
٧b	=	375	400		v
V <sub>g3</sub>	=	0	0		٧
$R_{\mathbf{k}}$	=	370	220		Ω
Ra	=	3	-		$k\Omega$
Raa	22	-	, 5		kΩ
٧i	=	18,9	0	22	$v_{\tt eff}$
Ia.	=	70	2 <b>x</b> 65	2x71	mA
Wo	=	6	0	16,5	W
d	==	8	-	3	%
V1(W0=50mW)	=	1,7			$v_{\tt eff}$

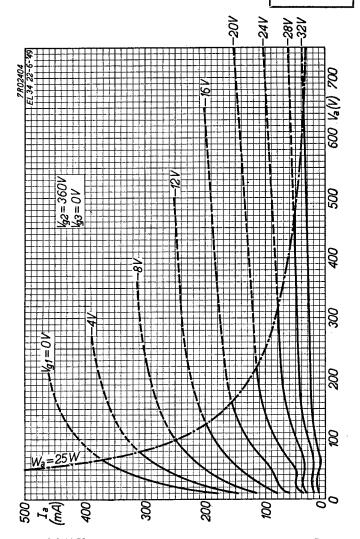
Limiting values Caractéristiques limites Grenzdaten

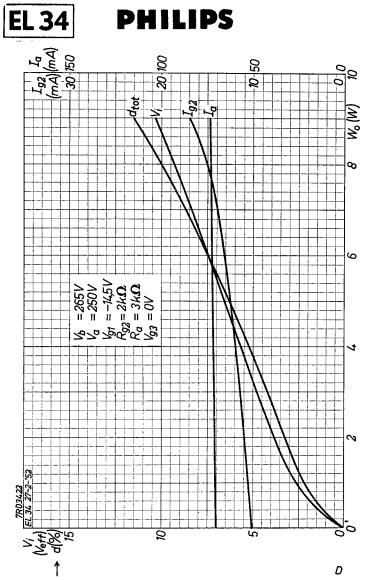
```
= max. 2000 V
Van
Va.
                        = max.
                                  800 V
W_{\mathbf{a}} (\mathbf{v}_1 = 0)
                                    25 W
                        = max.
                        = max. 27.5 W
W_{\mathbf{a}} (V_{\mathbf{i}} > 0)
Vg2o
                        = max. 800 V
                        = max. 425 V
Vg2
                                    8 W
Wg2
                        = max.
Iν
                        = max. 150 mA
V_{g1} (I_{g1} = +0,3 \mu A) = max. -1,3 V
Rg1 (A, AB)
                        = max. 0.7 M\Omega
R_{g1} (B)
                        = max. 0.5 M\Omega
                        = max. 100 V
Vfk
                        = max. 20 k\Omega
Rfk
```

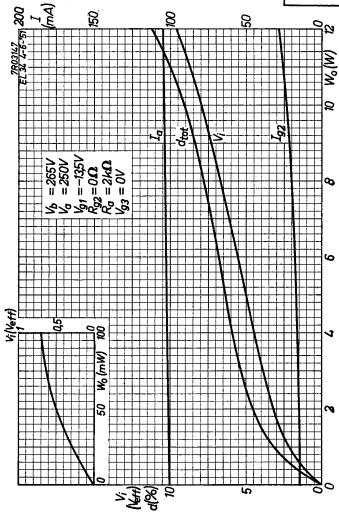


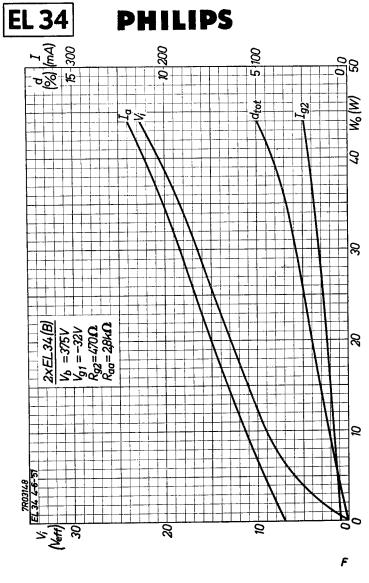




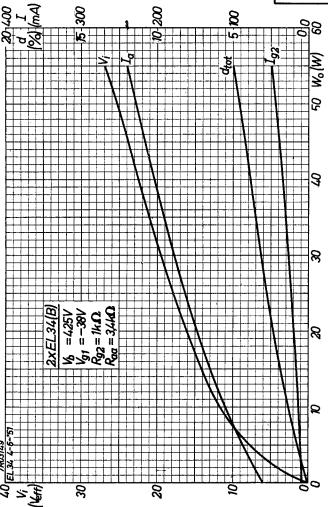




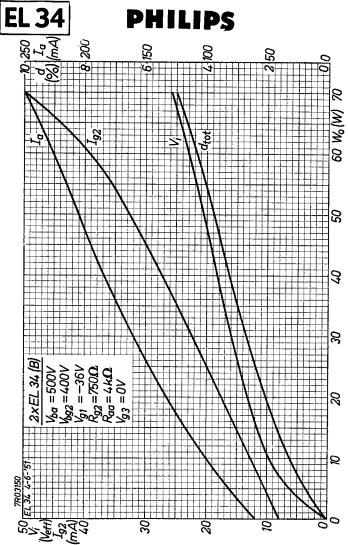


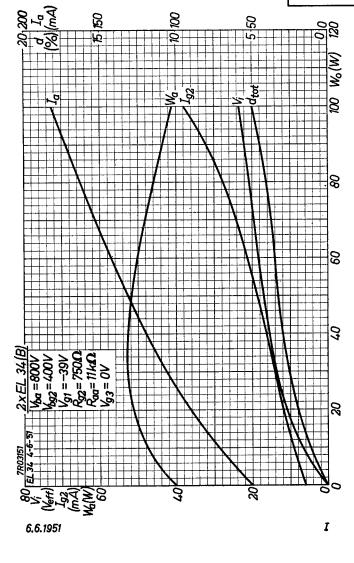




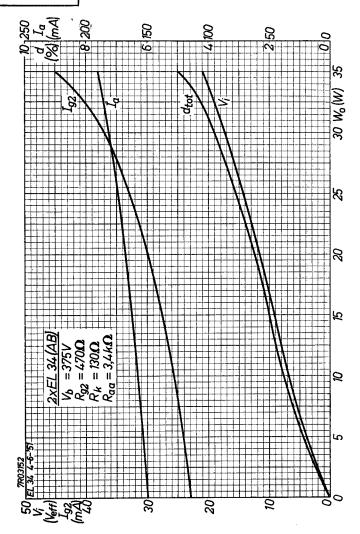






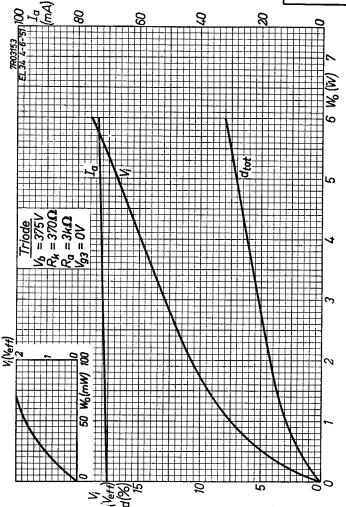


# **PHILIPS**



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	EL34	
page	sheet	date
1	1	1958.02.02
2	2	1958.02.02
3	3	1956.02.02
4	4	1956.02.02
5	Α	1949.10.10
6	В	1949.10.10
7	С	1952.02.02
8	D	1952.02.02
9	Е	1951.06.06
10	F	1951.06.06
11	G	1951.06.06
12	Н	1951.06.06
13		1951.06.06
14	J	1951.06.06
15	K	1951.06.06
16	FP	1999.02.16

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