

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 en parallèle

Heizung: indirekt durch Wechsel-  
 oder Gleichstrom;  
 Parallelspeisung

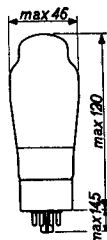
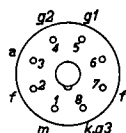
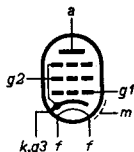
$V_f = 6,3 \text{ V}$

$I_f = 0,9 \text{ A}$

Dimensions in mm

Dimensions en mm

Abmessungen in mm



Base, culot, Sockel: Octal

Operating characteristics class A

Caractéristiques d'utilisation classe A

Betriebsdaten Klasse A

$V_a$	=	250 V
$V_{g2}$	=	250 V
$V_{g1}$	=	-6 V
$I_a$	=	36 mA
$I_{g2}$	=	4 mA
S	=	9 mA/V
$R_i$	=	50 k $\Omega$
$R_{a\omega}$	=	7 k $\Omega$
$W_o$ ( $d_{tot} = 10\%$ )	=	4,5 W
$V_i$ ( $d_{tot} = 10\%$ )	=	4,2 $V_{eff}$
$V_i$ ( $W_o = 50mW$ )	=	0,35 $V_{eff}$
$\mu_{g2g1}$	=	23

Operating characteristics classe AB  
 Caractéristiques d'utilisation classe AB  
 Betriebsdaten Klasse AB

$V_a$	=	250	V	
$V_{g2}$	=	250	V	
$R_k$	=	140	$\Omega$	
$R_{aa\sim}$	=	10	k $\Omega$	
$V_i$	=	0	V <sub>eff</sub>	
		6,7		
$I_a$	=	2x24	2x28,5	mA
$I_{g2}$	=	2x2,8	2x4,6	mA
$W_o$	=	0	8,2	W
$dt_{tot}$	=	-	3,1	%

Limiting values  
 Caractéristiques limites  
 Grenzdaten

$V_{a0}$	= max.	550 V
$V_a$	= max.	300 V
$W_a$	= max.	9 W
$V_{g20}$	= max.	550 V
$V_{g2}$	= max.	300 V
$W_{g2} (V_i=0)$	= max.	1,2 W
$W_{g2} (W_o=\text{max.})$	= max.	2,5 W
$I_k$	= max.	55 mA
$V_{g1} (I_{g1}=+0,3\mu\text{A})$	= max.	-1,3 V
$R_{g1}$	= max.	1 M $\Omega$
$V_{kf}$	= max.	100 V
$R_{kf}$	= max.	5 k $\Omega$

**PHILIPS**



*Electronic  
Tube*

**HANDBOOK**

<b>page</b>	<b>EL33 sheet</b>	<b>date</b>
1	1	1953.10.10
2	2	1953.10.10
3	FP	1999.07.04