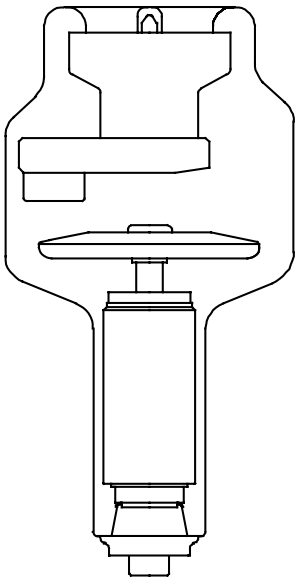
Documentazione Tubo a raggi X
Tube Documentation
Documentation du Tube

RTC 1000 HS 0.6/1.0



Nr. di matricola
Tube No.
Nr de série

CE 0051

Questa documentazione deve essere fornita all'utilizzatore del complesso tubo-guaina
The contents of this documentation must be transmitted to the user of the tube-assembly
Le contenu de cette documentation doit être transmis à l'utilisateur de la gaine équipée

Documentazione N° Documentation N° N° de Documentation	Revisione Edition Version	Data di edizione Date of release Date de l'édition	Testo originale Original text Texte original
100S6A	B	20.10.2022	italiano / italian / italien

I.A.E Spa via Fabio Filzi, 53 - 20032 CORMANO (MI) Italy
Tel: ++39-0266303255 Fax: ++39-026152544
http://www.iae.it e-mail: iaexray@iae.it

CSQ ISO 9001 IQNet CSQ ISO 13485

Sommario - Table of contents - Table des matières

Sommario - Table of contents - Table des matières 2
Caratteristiche - Specifications - Spécifications 3
Etichettatura - Labeling - Etiquetage 4
Dimensioni - Dimension - Dimensions 5
Versione speciale per sostituzione in cuffie GE-CGR e SIEMENS Special version for reloading in GE-CGR and SIEMENS housings Version spéciale pour remise en gaine GE-CGR et SIEMENS 5
Curve di riscaldamento e raffreddamento dell'anodo Anode heating and cooling curves Courbes d'échauffement et de refroidissement de l'anode IEC 60613 (1989) 6
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE ▣ 0.6 - 3 Ø - 50 / 60 Hz - IEC 60613 (1989) (2010) 7
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE ■ 1.0 - 3 Ø - 50 / 60 Hz - IEC 60613 (1989) (2010) 7
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE ▣ 0.6 - 3 Ø - 150 / 180 Hz - IEC 60613 (1989) (2010) 8
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE ■ 1.0 - 3 Ø - 150 / 180 Hz - IEC 60613 (1989) (2010) 8
Abaco per carichi in serie - Serial load rating - Abaque de charges successives ▣ 0.6 - 3 Ø - 50 / 60 Hz 9
Abaco per carichi in serie - Serial load rating - Abaque de charges successives ■ 1.0 - 3 Ø - 50 / 60 Hz 10
Abaco per carichi in serie - Serial load rating - Abaque de charges successives ▣ 0.6 - 3 Ø - 150 / 180 Hz 11
Abaco per carichi in serie - Serial load rating - Abaque de charges successives ■ 1.0 - 3 Ø - 150 / 180 Hz 12
Caratteristica di emissione del catodo Cathode emission characteristic Caractéristique d'émission de la cathode ▣ 0.6 - 3 Ø - (± 0.2 A) – IEC 60613 (1989) (2010) 13
Caratteristica di emissione del catodo Cathode emission characteristic Caractéristique d'émission de la cathode ■ 1.0 - 3 Ø - (± 0.2 A) – IEC 60613 (1989) (2010) 13

Dichiarazione di conformità

Questo prodotto soddisfa i requisiti essenziali del regolamento UE 2017/745 in accordo alle norme IEC 60613, IEC 60336, IEC 60522, IEC 60526, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.

Declaration of conformity

This tube fulfils the essential requirements of the regulation EU 2017/745 according to standard IEC 60613, IEC 60336, IEC 60522, IEC 60526, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.

Confirmation de conformité

Ce tube remplit les exigences essentielles de le règlement UE 2017/745 en accord avec les normes IEC 60613, IEC 60336, IEC 60522, IEC 60526, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.

Caratteristiche - Specifications - Spécifications

Macchie focali Focal spot Foyer	▣ 0.6 ■ 1.0		IEC 60336
Velocità di rotazione dell'anodo Anode speed Vitesse de l'anode	50 / 60 Hz 2850 / 3450 min^{-1}	150 / 180 Hz 8500 / 10000 min^{-1}	
Potenza anodica nominale Nominal anode input power Puissance anodique nominale	▣ 26 kW ■ 45 kW	40 kW 80 kW	IEC 60613 (1989)
Potenza anodica nominale in radiografia Nominal radiographic anode input power Puissance anodique radiographique nominale	▣ 29 kW ■ 49 kW	43 kW 84 kW	IEC 60613 (2010)
Diametro anodico Anode diameter Diamètre de l'anode	110 mm		
Materiale anodico Anode material Matériau de l'anode	RT-TZM-C *		
* RT = Tungsteno + Renio (5-10%) , TZM = Molibdeno + Titanio (0.40-0.55 %) + Zirconio (0.06-0.12 %), C = Grafite RT = Tungsten + Rhenium (5-10%) , TZM = Molibdenum + Titanium (0.40-0.55 %) + Zirconium (0.06-0.12 %), C = Graphite RT = Tungstène + Rhénium (5-10%) , TZM = Molybdène + Titane (0.40-0.55 %) + Zirconium (0.06-0.12 %), C = Graphite			
Angolo anodico Anode angle Pente de l'anode	13 °		
Campo di radiazione Radiation field Champ de rayonnement	a 70 cm 32 cm a 100 cm 45 cm		
Filtrazione permanente Permanent filtration Filtration permanent	0.7 mm Al / 75 kV		IEC 60522
Capacità termica anodica Maximum anode heat content Chaleur maximale accumulée dans l'anode	840 kJ	1120 kHU	IEC 60613 (1989)
Dissipazione termica continua Continuous heat dissipation Dissipation thermique continue	1200 W	96 000 HU/min	
Dissipazione termica massima Maximum heat dissipation Dissipation thermique maximale	2000 W	160 000 HU/min	
Alta tensione nominale Nominal X-ray tube voltage Haute tension nominale	150 kV		IEC 60613 (2010)
Massima corrente di filamento Max. filament current Courant dans le filament max.	5.4 A		

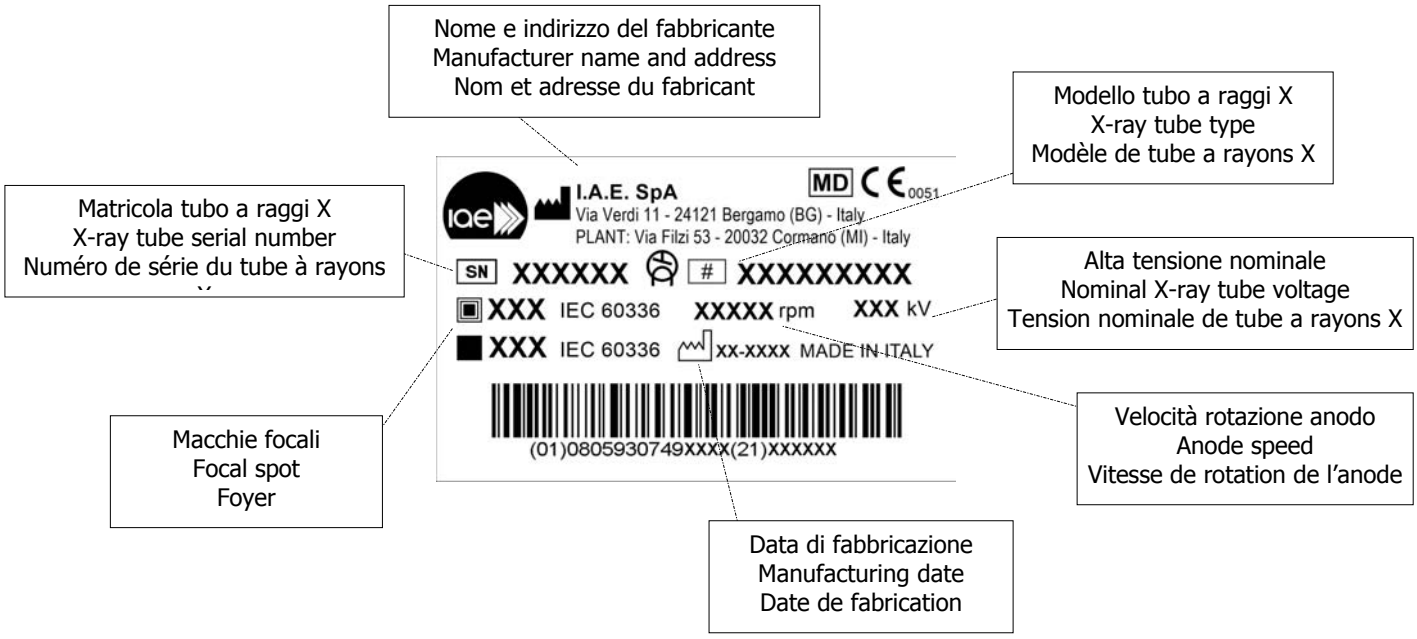
I dati forniti nella presente documentazione si intendono riferiti a:
The data indicated in this documentation refer to:
Les données indiquées dans cette documentation sont calculés pour:

Potenza anodica di equilibrio termico Equivalent anode input power Puissance anodique d'équilibre thermique	300 W	=	% della capacità termica anodica % of maximum anode heat content % de chaleur max. accumulée dans l'anode	48%

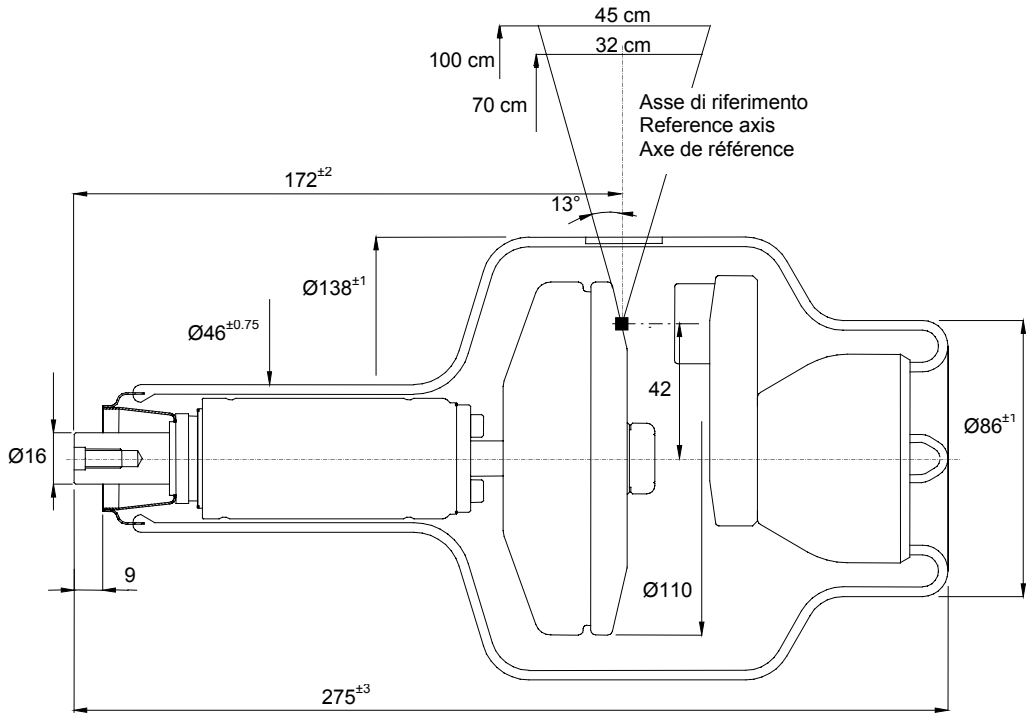
	trasporto e stoccaggio transportation and storage transport et stockage	funzionamento operation opération	
Limiti di temperatura Temperature limits Limites de température	-10°C ÷ +80°C	+10°C ÷ +40°C	
Limiti di umidità Humidity limits Limites d'humidité	max. 80%	max. 75%	
Limiti di pressione Pressure limits Limites de pression	500 ÷ 1060 hPa	700 ÷ 1060 hPa	

Etichettatura - Labeling - Etiquetage

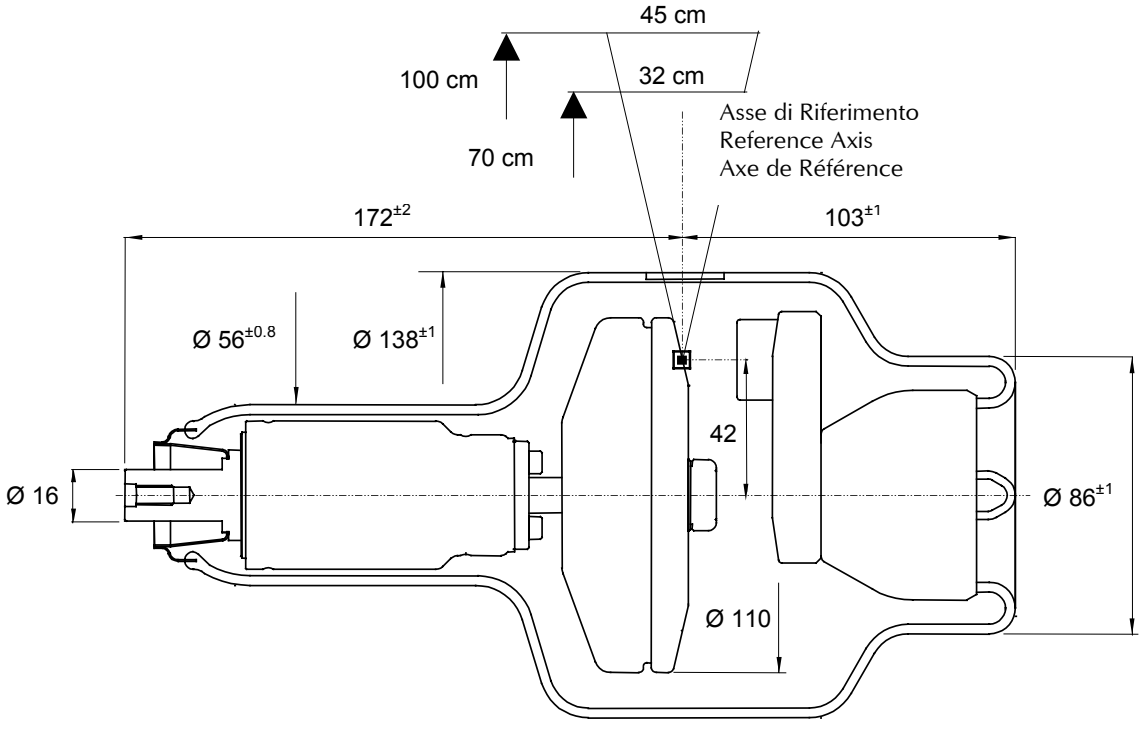
Etichetta del tubo / Tube label / Etiquette de tube



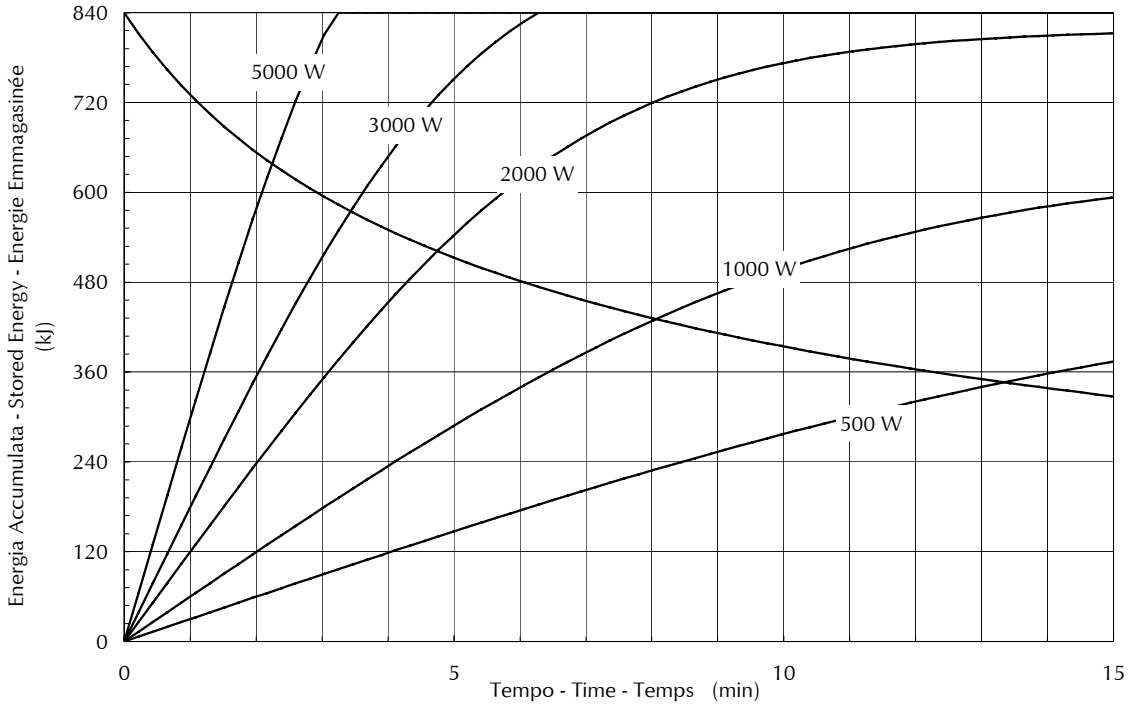
Dimensioni - Dimension - Dimensions



Versione speciale per sostituzione in cuffie GE-CGR e SIEMENS
Special version for reloading in GE-CGR and SIEMENS housings
Version spéciale pour remise en gaine GE-CGR et SIEMENS

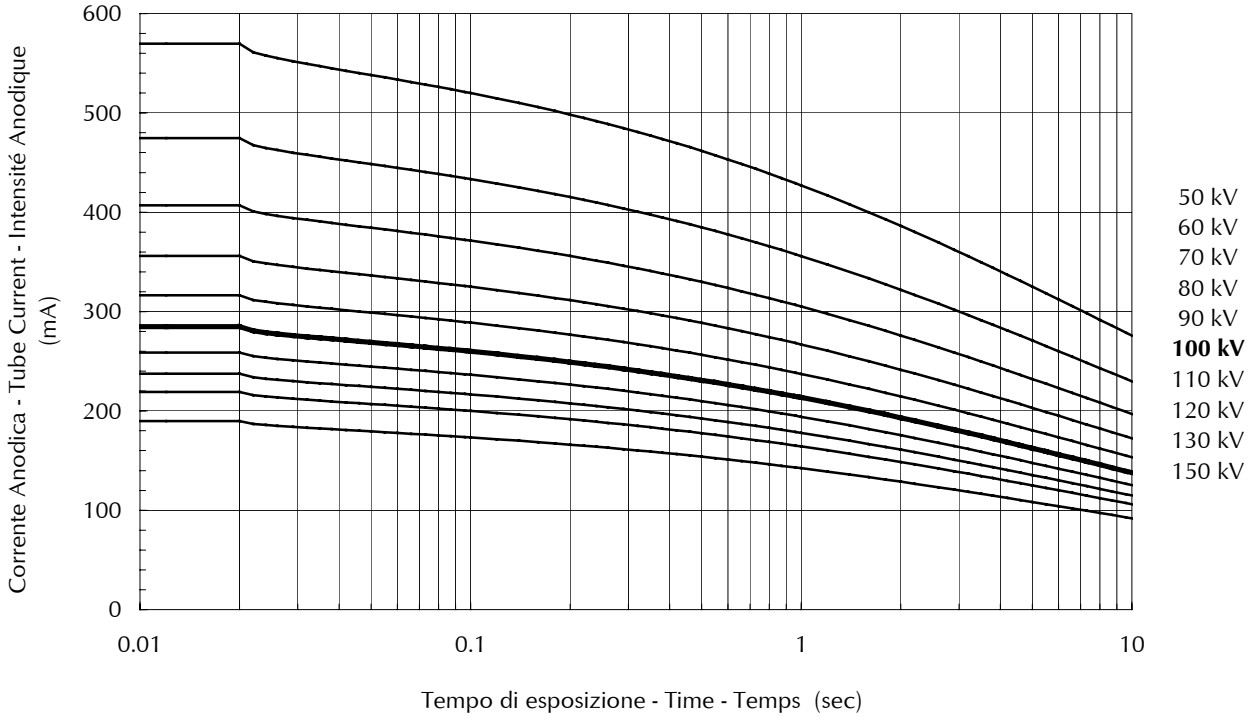


Curve di riscaldamento e raffreddamento dell'anodo
Anode heating and cooling curves
Courbes d'échauffement et de refroidissement de l'anode
IEC 60613 (1989)



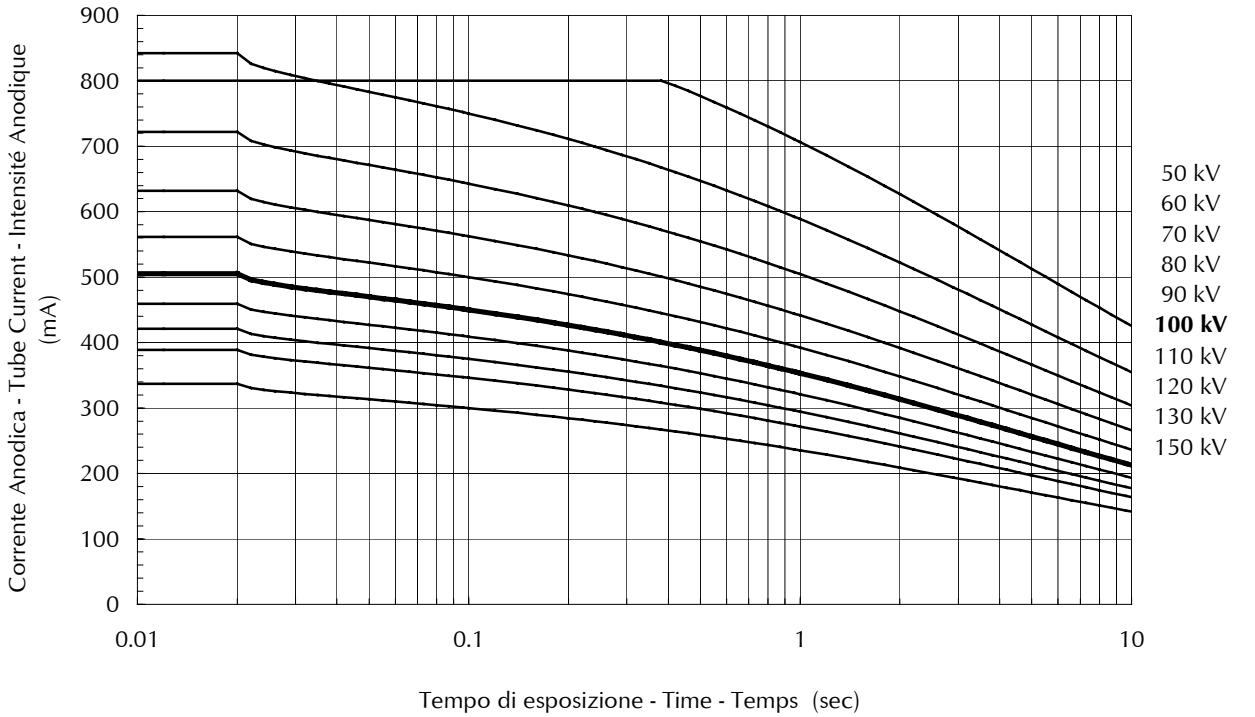
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.6 - 3 Ø - 50 / 60 Hz - IEC 60613 (1989) (2010)



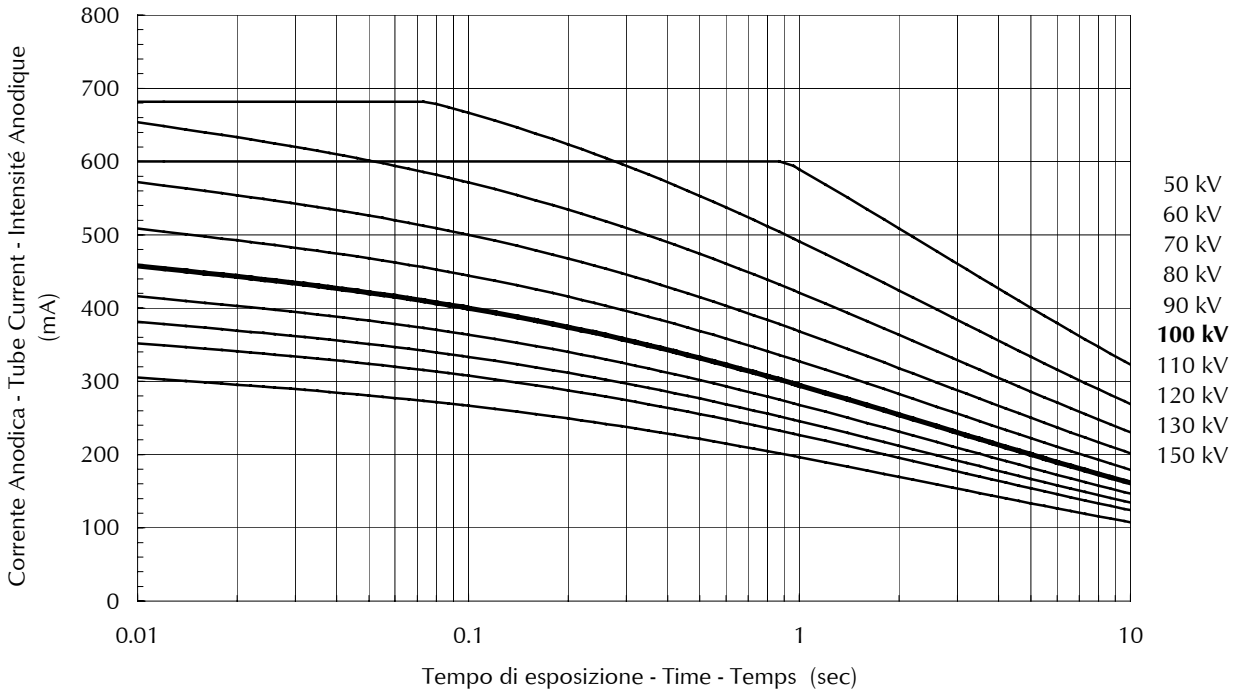
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 1.0 - 3 Ø - 50 / 60 Hz - IEC 60613 (1989) (2010)



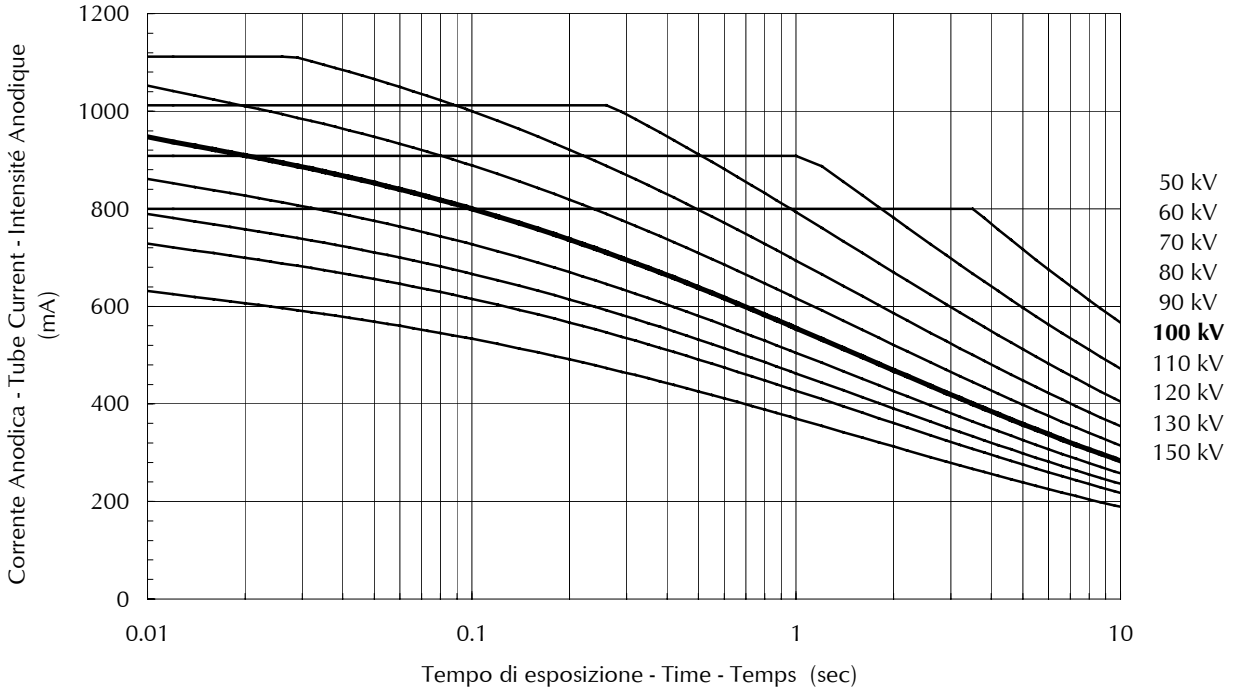
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.6 - 3 Ø - 150 / 180 Hz - IEC 60613 (1989) (2010)



CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 1.0 - 3 Ø - 150 / 180 Hz - IEC 60613 (1989) (2010)



Abaco per carichi in serie - Serial load rating - Abaque de charges successives

0.6 - 3 Ø - 50 / 60 Hz

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec) Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)																
z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	**n**
1	22.4	22.4	22.0	21.7	21.5	21.3	21.0	20.8	20.6	20.4	20.2	20.1	19.8	19.5	19.2	
2	22.3	22.3	22.0	21.7	21.5	21.3	21.0	20.6	20.2	19.8	19.5	19.1	18.8	18.5	18.0	
3	22.2	22.2	21.9	21.7	21.4	21.1	20.6	20.2	19.7	19.3	18.9	18.5	18.1	17.7	17.2	
4	22.1	22.1	21.8	21.5	21.2	20.9	20.3	19.8	19.3	18.8	18.4	18.0	17.5	17.1	16.6	5
5	22.0	22.0	21.7	21.4	21.0	20.7	20.1	19.5	19.0	18.5	18.0	17.5	17.1	-	-	
10	22.0	21.8	21.3	20.8	20.4	20.0	19.2	18.5	-	-	-	-	-	-	-	
15	22.0	21.6	21.0	20.5	20.0	19.5	-	-	-	-	-	-	-	-	-	
30	21.9	21.1	20.4	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.3	22.3	22.0	21.7	21.5	21.3	21.0	20.6	20.2	19.8	19.5	19.1	18.8	18.5	18.0	
2	22.1	22.1	21.8	21.5	21.2	20.9	20.3	19.8	19.3	18.8	18.4	17.9	17.5	17.1	16.6	
3	22.0	22.0	21.6	21.2	20.9	20.5	19.9	19.2	18.7	18.1	17.6	17.1	16.7	16.2	15.6	
4	22.0	21.9	21.4	21.0	20.6	20.2	19.5	18.8	18.2	17.6	17.0	16.5	16.0	15.5	14.9	10
5	22.0	21.8	21.3	20.8	20.4	19.9	19.1	18.4	17.7	17.1	16.5	16.0	15.5	-	-	
10	22.0	21.4	20.7	20.1	19.5	19.0	18.0	17.1	-	-	-	-	-	-	-	
15	21.9	21.1	20.3	19.6	18.9	18.3	-	-	-	-	-	-	-	-	-	
30	21.6	20.5	19.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.1	22.1	21.8	21.5	21.2	20.9	20.3	19.8	19.3	18.8	18.4	17.9	17.5	17.1	16.5	
2	22.0	21.9	21.4	21.0	20.6	20.2	19.5	18.8	18.1	17.5	17.0	16.5	16.0	15.5	14.9	
3	22.0	21.7	21.1	20.6	20.2	19.7	18.9	18.1	17.4	16.7	16.1	15.5	15.0	14.5	13.8	
4	22.0	21.5	20.9	20.3	19.8	19.3	18.4	17.5	16.7	16.0	15.4	14.8	14.2	13.7	13.0	20
5	22.0	21.3	20.7	20.1	19.5	19.0	18.0	17.0	16.2	15.5	14.8	14.2	13.6	-	-	
10	21.8	20.8	19.9	19.1	18.4	17.7	16.5	15.5	-	-	-	-	-	-	-	
15	21.5	20.4	19.4	18.5	17.7	16.9	-	-	-	-	-	-	-	-	-	
30	21.1	19.6	18.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.0	21.9	21.4	21.0	20.6	20.2	19.5	18.8	18.1	17.5	17.0	16.5	16.0	15.5	14.9	
2	22.0	21.5	20.9	20.3	19.8	19.3	18.4	17.5	16.7	16.0	15.4	14.8	14.2	13.7	13.0	
3	22.0	21.2	20.5	19.9	19.2	18.7	17.6	16.6	15.8	15.0	14.3	13.7	13.1	12.6	11.8	
4	21.9	21.0	20.2	19.5	18.8	18.1	17.0	16.0	15.1	14.3	13.5	12.9	12.3	11.8	11.0	40
5	21.7	20.8	19.9	19.1	18.4	17.7	16.5	15.4	14.5	13.7	12.9	12.3	11.7	-	-	
10	21.3	20.1	19.0	18.0	17.0	16.2	14.8	13.6	-	-	-	-	-	-	-	
15	21.1	19.6	18.3	17.1	16.1	15.3	-	-	-	-	-	-	-	-	-	
30	20.4	18.5	16.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.0	21.7	21.1	20.6	20.2	19.7	18.8	18.1	17.3	16.7	16.1	15.5	15.0	14.5	13.8	
2	22.0	21.2	20.5	19.9	19.2	18.7	17.6	16.6	15.8	15.0	14.3	13.7	13.1	12.6	11.8	
3	21.8	20.9	20.1	19.3	18.6	17.9	16.7	15.7	14.8	14.0	13.2	12.6	12.0	11.4	10.7	
4	21.7	20.6	19.7	18.8	18.1	17.3	16.1	15.0	14.0	13.2	12.4	11.7	11.1	10.6	9.9	60
5	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	13.4	12.5	11.8	11.1	10.5	-	-	
10	21.0	19.6	18.3	17.1	16.1	15.2	13.7	12.5	-	-	-	-	-	-	-	
15	20.7	19.0	17.5	16.2	15.1	14.2	-	-	-	-	-	-	-	-	-	
30	19.9	17.7	16.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.0	21.5	20.9	20.3	19.8	19.3	18.4	17.5	16.7	16.0	15.4	14.8	14.2	13.7	13.0	
2	21.9	21.0	20.2	19.5	18.8	18.1	17.0	16.0	15.1	14.3	13.5	12.9	12.3	11.8	11.0	
3	21.7	20.6	19.7	18.8	18.1	17.3	16.1	15.0	14.0	13.2	12.4	11.7	11.1	10.6	9.9	
4	21.5	20.3	19.3	18.4	17.5	16.7	15.4	14.2	13.2	12.4	11.6	10.9	10.3	9.8	9.1	80
5	21.3	20.1	19.0	17.9	17.0	16.2	14.8	13.6	12.6	11.7	11.0	10.3	9.7	-	-	
10	20.8	19.1	17.7	16.5	15.4	14.5	12.9	11.7	-	-	-	-	-	-	-	
15	20.4	18.5	16.9	15.5	14.4	13.4	-	-	-	-	-	-	-	-	-	
30	19.6	17.1	15.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.0	21.3	20.7	20.1	19.5	19.0	17.9	17.0	16.2	15.5	14.8	14.2	13.6	13.1	12.4	
2	21.7	20.8	19.9	19.1	18.4	17.7	16.5	15.4	14.5	13.7	12.9	12.3	11.7	11.1	10.4	
3	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	13.4	12.5	11.8	11.1	10.5	10.0	9.3	
4	21.3	20.1	19.0	17.9	17.0	16.2	14.8	13.6	12.6	11.7	11.0	10.3	9.7	9.2	8.5	100
5	21.2	19.8	18.6	17.5	16.5	15.7	14.2	13.0	12.0	11.1	10.3	9.7	9.1	-	-	
10	20.6	18.8	17.3	16.0	14.9	13.9	12.3	11.0	-	-	-	-	-	-	-	
15	20.2	18.1	16.4	15.0	13.8	12.8	-	-	-	-	-	-	-	-	-	
30	19.2	16.7	14.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.9	21.0	20.3	19.6	18.9	18.3	17.1	16.1	15.2	14.4	13.7	13.1	12.5	11.9	11.2	
2	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	13.4	12.5	11.8	11.1	10.5	10.0	9.3	
3	21.3	19.9	18.8	17.7	16.8	15.9	14.5	13.3	12.3	11.4	10.6	10.0	9.4	8.9	8.2	
4	21.0	19.6	18.3	17.1	16.1	15.2	13.7	12.5	11.4	10.6	9.8	9.2	8.6	8.1	7.4	150
5	20.9	19.2	17.8	16.6	15.6	14.7	13.1	11.8	10.8	9.9	9.2	8.6	8.0	-	-	
10	20.2	18.1	16.4	15.0	13.8	12.8	11.1	9.9	-	-	-	-	-	-	-	
15	19.6	17.3	15.4	13.9	12.7	11.6	-	-	-	-	-	-	-	-	-	
30	18.6	15.7	13.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	13.4	12.5	11.8	11.0	9.9	9.0	7.9	
2	21.0	19.6	18.3	17.1	16.1	15.2	13.7	12.5	11.4	10.6	9.8	8.7	7.8	7.1	6.3	
3	20.7	19.0	17.5	16.2	15.1	14.2	12.6	11.3	10.3	9.4	8.7	7.9	7.2	6.5	5.7	
4	20.4	18.5	16.9	15.5	14.4	13.4	11.8	10.5	9.5	8.6	7.9	7.3	6.8	6.2	5.4	300
5	20.2	18.1	16.4	15.0	13.8	12.8	11.1	9.9	8.9	8.1	7.4	6.8	6.3	-	-	
10	19.2	16.6	14.7	13.1	11.8	10.8	9.2	8.0	-	-	-	-	-	-	-	
15	18.6	15.7	13.6	12.0	10.7	9.7	-	-	-	-	-	-	-	-	-	
30	17.3	13.9	11.6	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

■ 1.0 - 3 Ø - 50 / 60 Hz

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec
Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec)
Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)

z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	39.7	39.7	38.7	38.1	37.6	37.2	36.5	36.0	35.5	35.1	34.8	34.4	33.9	33.3	32.5	
2	39.4	39.4	38.7	38.1	37.6	37.2	36.4	35.6	34.7	33.9	33.2	32.4	31.7	31.1	30.1	
3	39.1	39.1	38.5	37.9	37.3	36.7	35.7	34.6	33.7	32.7	31.9	31.1	30.3	29.5	28.5	
4	38.9	38.9	38.2	37.5	36.9	36.2	35.0	33.9	32.8	31.8	30.9	30.0	29.2	28.4	27.3	5
5	38.8	38.8	38.0	37.2	36.5	35.8	34.5	33.3	32.1	31.1	30.1	29.1	28.3	-	-	
10	38.7	38.1	37.1	36.1	35.1	34.2	32.6	31.1	-	-	-	-	-	-	-	
15	38.7	37.7	36.4	35.3	34.2	33.2	-	-	-	-	-	-	-	-	-	
30	38.5	36.8	35.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	39.3	39.3	38.7	38.1	37.6	37.2	36.4	35.5	34.7	33.9	33.1	32.4	31.7	31.0	30.1	
2	38.9	38.9	38.2	37.5	36.9	36.2	35.0	33.9	32.8	31.8	30.8	30.0	29.1	28.3	27.2	
3	38.7	38.6	37.7	36.9	36.1	35.4	34.0	32.7	31.5	30.3	29.3	28.3	27.4	26.5	25.4	
4	38.7	38.3	37.4	36.4	35.6	34.7	33.2	31.7	30.4	29.2	28.1	27.1	26.1	25.2	24.0	10
5	38.7	38.1	37.0	36.0	35.1	34.2	32.5	31.0	29.6	28.3	27.1	26.1	25.1	-	-	
10	38.7	37.2	35.8	34.5	33.3	32.1	30.1	28.3	-	-	-	-	-	-	-	
15	38.4	36.6	34.9	33.4	32.0	30.7	-	-	-	-	-	-	-	-	-	
30	37.7	35.3	33.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	38.9	38.9	38.2	37.5	36.8	36.2	35.0	33.8	32.8	31.8	30.8	29.9	29.1	28.3	27.2	
2	38.7	38.3	37.4	36.4	35.5	34.7	33.1	31.7	30.4	29.2	28.1	27.0	26.1	25.2	24.0	
3	38.7	37.9	36.7	35.6	34.6	33.6	31.9	30.2	28.8	27.5	26.3	25.2	24.2	23.2	22.0	
4	38.7	37.5	36.2	35.0	33.9	32.8	30.8	29.1	27.6	26.2	24.9	23.8	22.8	21.8	20.5	20
5	38.7	37.2	35.8	34.4	33.2	32.1	30.0	28.2	26.6	25.1	23.9	22.7	21.6	-	-	
10	38.1	36.0	34.2	32.5	31.0	29.6	27.1	25.1	-	-	-	-	-	-	-	
15	37.6	35.2	33.0	31.1	29.4	27.9	-	-	-	-	-	-	-	-	-	
30	36.6	33.4	30.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	38.7	38.3	37.3	36.4	35.5	34.7	33.1	31.7	30.4	29.2	28.1	27.0	26.1	25.2	24.0	
2	38.7	37.5	36.2	35.0	33.8	32.8	30.8	29.1	27.6	26.2	24.9	23.8	22.7	21.8	20.5	
3	38.6	36.9	35.4	34.0	32.7	31.4	29.3	27.4	25.7	24.3	22.9	21.8	20.7	19.7	18.5	
4	38.3	36.4	34.7	33.1	31.7	30.4	28.1	26.1	24.4	22.8	21.5	20.3	19.3	18.3	17.0	40
5	38.1	36.0	34.1	32.5	30.9	29.5	27.1	25.0	23.3	21.7	20.4	19.2	18.1	-	-	
10	37.2	34.4	32.1	30.0	28.2	26.6	23.9	21.6	-	-	-	-	-	-	-	
15	36.5	33.3	30.7	28.4	26.4	24.7	-	-	-	-	-	-	-	-	-	
30	35.2	31.1	27.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	38.7	37.9	36.7	35.6	34.6	33.6	31.8	30.2	28.8	27.5	26.3	25.2	24.1	23.2	21.9	
2	38.6	36.9	35.4	34.0	32.7	31.4	29.3	27.4	25.7	24.2	22.9	21.8	20.7	19.7	18.4	
3	38.2	36.2	34.4	32.8	31.3	29.9	27.6	25.5	23.8	22.2	20.9	19.7	18.7	17.7	16.4	
4	37.9	35.6	33.6	31.8	30.2	28.8	26.3	24.2	22.4	20.8	19.5	18.3	17.2	16.3	15.1	60
5	37.6	35.1	33.0	31.1	29.4	27.8	25.2	23.1	21.2	19.7	18.3	17.2	16.1	-	-	
10	36.5	33.3	30.6	28.4	26.4	24.7	21.8	19.6	-	-	-	-	-	-	-	
15	35.8	32.1	29.1	26.6	24.5	22.7	-	-	-	-	-	-	-	-	-	
30	34.2	29.6	26.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	38.7	37.5	36.2	35.0	33.8	32.8	30.8	29.1	27.6	26.2	24.9	23.8	22.7	21.8	20.5	
2	38.3	36.4	34.7	33.1	31.7	30.4	28.1	26.1	24.3	22.8	21.5	20.3	19.2	18.3	17.0	
3	37.9	35.6	33.6	31.8	30.2	28.8	26.3	24.2	22.4	20.8	19.5	18.3	17.2	16.3	15.1	
4	37.5	35.0	32.8	30.8	29.1	27.6	24.9	22.7	20.9	19.3	18.0	16.8	15.8	14.9	13.7	80
5	37.2	34.4	32.1	30.0	28.2	26.6	23.8	21.6	19.8	18.2	16.9	15.8	14.8	-	-	
10	36.0	32.5	29.5	27.1	25.0	23.3	20.4	18.1	-	-	-	-	-	-	-	
15	35.1	31.1	27.9	25.2	23.1	21.2	-	-	-	-	-	-	-	-	-	
30	33.3	28.4	24.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	38.7	37.2	35.8	34.4	33.2	32.1	30.0	28.2	26.6	25.1	23.8	22.7	21.5	19.5	17.2	
2	38.1	36.0	34.1	32.4	30.9	29.5	27.1	25.0	23.3	21.7	20.4	19.2	18.1	17.2	15.5	
3	37.6	35.1	33.0	31.1	29.4	27.8	25.2	23.1	21.2	19.7	18.3	17.2	16.1	15.2	14.0	
4	37.2	34.4	32.1	30.0	28.2	26.6	23.8	21.6	19.8	18.2	16.9	15.8	14.8	13.9	12.7	100
5	36.8	33.8	31.3	29.1	27.2	25.5	22.7	20.5	18.7	17.1	15.8	14.7	13.7	-	-	
10	35.5	31.7	28.6	26.1	24.0	22.2	19.3	17.0	-	-	-	-	-	-	-	
15	34.6	30.2	26.9	24.2	22.0	20.1	-	-	-	-	-	-	-	-	-	
30	32.7	27.4	23.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	38.4	36.5	34.9	33.3	31.9	30.6	28.3	26.4	24.7	22.4	19.6	17.4	15.7	14.2	12.5	
2	37.6	35.1	33.0	31.1	29.4	27.8	25.2	23.1	21.2	19.5	17.0	15.1	13.6	12.4	10.9	
3	37.0	34.1	31.7	29.5	27.7	26.0	23.3	21.0	19.2	17.6	16.2	14.4	12.9	11.8	10.4	
4	36.5	33.3	30.6	28.3	26.4	24.7	21.8	19.6	17.7	16.2	14.9	13.9	12.6	11.5	10.1	150
5	36.1	32.7	29.8	27.4	25.3	23.6	20.7	18.4	16.6	15.2	13.9	12.9	12.0	-	-	
10	34.6	30.2	26.9	24.2	21.9	20.1	17.2	15.1	-	-	-	-	-	-	-	
15	33.5	28.6	25.0	22.2	19.9	18.1	-	-	-	-	-	-	-	-	-	
30	31.3	25.5	21.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	37.6	35.1	33.0	31.1	29.4	27.8	24.7	19.7	16.4	14.1	12.3	11.0	9.9	9.0	7.9	
2	36.5	33.3	30.6	28.3	26.4	24.7	19.6	15.7	13.0	11.2	9.8	8.7	7.8	7.1	6.3	
3	35.8	32.1	29.1	26.6	24.5	22.7	17.9	14.3	11.9	10.2	8.9	7.9	7.2	6.5	5.7	
4	35.1	31.1	27.8	25.2	23.1	21.2	17.0	13.6	11.4	9.7	8.5	7.6	6.8	6.2	5.4	300
5	34.6	30.2	26.9	24.1	21.9	20.1	16.5	13.2	11.0	9.4	8.3	7.3	6.6	-	-	
10	32.7	27.4	23.6	20.7	18.4	16.6	13.9	12.0	-	-	-	-	-	-	-	
15	31.3	25.5	21.6	18.7	16.4	14.7	-	-	-	-	-	-	-	-	-	
30	28.6	22.2	18.1	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

▣ 0.6 - 3 Ø - 150 / 180 Hz

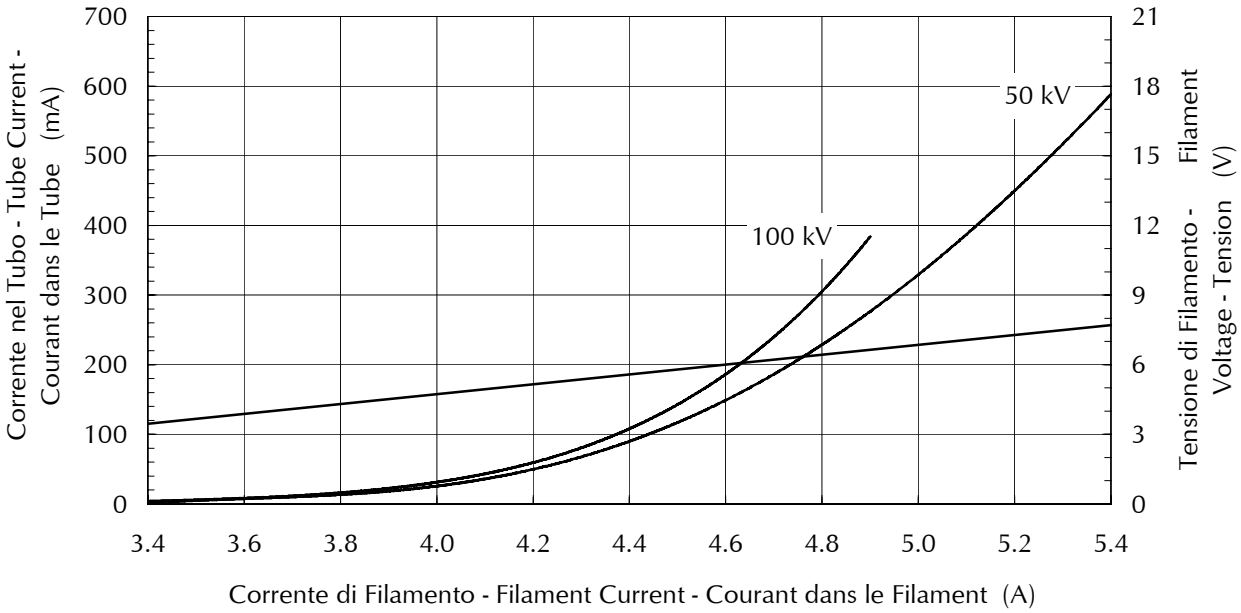
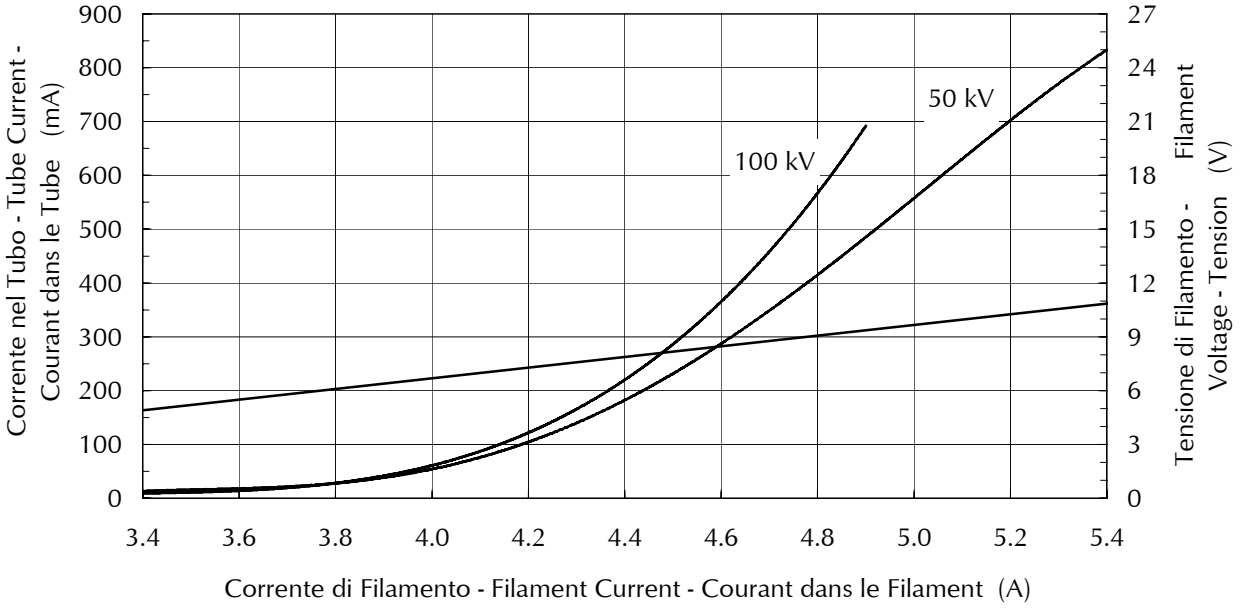
Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec) Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)																
z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	36.6	35.5	34.7	34.2	33.7	33.3	32.6	32.0	31.5	31.0	30.6	30.3	29.8	29.2	28.3	
2	36.6	35.5	34.7	34.2	33.7	33.3	32.6	31.8	30.8	29.9	29.0	28.2	27.4	26.6	25.6	
3	36.6	35.5	34.7	34.2	33.7	33.3	32.0	30.7	29.6	28.5	27.5	26.6	25.8	25.0	23.8	
4	36.6	35.5	34.7	34.2	33.4	32.7	31.2	29.8	28.6	27.5	26.4	25.5	24.6	23.7	22.6	5
5	36.6	35.5	34.7	33.9	33.0	32.1	30.5	29.1	27.8	26.6	25.5	24.5	23.6	-	-	
10	36.5	35.0	33.7	32.4	31.3	30.2	28.3	26.6	-	-	-	-	-	-	-	
15	36.1	34.4	32.8	31.4	30.1	28.9	-	-	-	-	-	-	-	-	-	
30	35.4	33.1	31.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.6	35.5	34.7	34.2	33.7	33.3	32.6	31.8	30.8	29.9	29.0	28.2	27.4	26.6	25.6	
2	36.6	35.5	34.7	34.2	33.4	32.6	31.2	29.8	28.6	27.5	26.4	25.4	24.5	23.7	22.5	
3	36.6	35.5	34.5	33.5	32.6	31.6	30.0	28.5	27.1	25.8	24.7	23.7	22.7	21.8	20.6	
4	36.6	35.3	34.1	32.9	31.8	30.8	29.0	27.4	25.9	24.6	23.4	22.4	21.4	20.5	19.3	10
5	36.5	35.0	33.7	32.4	31.2	30.2	28.2	26.5	25.0	23.6	22.4	21.3	20.4	-	-	
10	35.8	33.9	32.1	30.5	29.1	27.8	25.5	23.6	-	-	-	-	-	-	-	
15	35.4	33.1	31.0	29.3	27.7	26.2	-	-	-	-	-	-	-	-	-	
30	34.4	31.4	28.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.6	35.5	34.7	34.2	33.4	32.6	31.2	29.8	28.6	27.5	26.4	25.4	24.5	23.7	22.5	
2	36.6	35.3	34.1	32.9	31.8	30.8	29.0	27.4	25.9	24.6	23.4	22.4	21.4	20.5	19.3	
3	36.3	34.7	33.3	31.9	30.7	29.6	27.5	25.8	24.2	22.8	21.6	20.5	19.5	18.6	17.4	
4	36.1	34.3	32.6	31.2	29.8	28.6	26.4	24.5	22.9	21.5	20.2	19.1	18.1	17.2	16.0	20
5	35.8	33.9	32.1	30.5	29.1	27.8	25.5	23.6	21.9	20.4	19.2	18.1	17.1	-	-	
10	35.0	32.4	30.2	28.2	26.5	25.0	22.4	20.4	-	-	-	-	-	-	-	
15	34.4	31.4	28.8	26.7	24.8	23.2	-	-	-	-	-	-	-	-	-	
30	33.1	29.3	26.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.6	35.3	34.1	32.9	31.8	30.8	29.0	27.4	25.9	24.6	23.4	22.4	21.4	20.5	19.3	
2	36.1	34.3	32.6	31.2	29.8	28.6	26.4	24.5	22.9	21.5	20.2	19.1	18.1	17.2	16.0	
3	35.6	33.5	31.6	30.0	28.4	27.1	24.7	22.7	21.0	19.6	18.3	17.2	16.2	15.3	14.2	
4	35.3	32.9	30.8	29.0	27.4	25.9	23.4	21.4	19.7	18.2	16.9	15.8	14.9	14.0	12.9	40
5	35.0	32.4	30.2	28.2	26.5	25.0	22.4	20.3	18.6	17.1	15.9	14.8	13.9	-	-	
10	33.9	30.5	27.8	25.5	23.6	21.9	19.2	17.1	-	-	-	-	-	-	-	
15	33.1	29.2	26.2	23.7	21.7	20.0	-	-	-	-	-	-	-	-	-	
30	31.4	26.7	23.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.3	34.7	33.3	31.9	30.7	29.6	27.5	25.8	24.2	22.8	21.6	20.5	19.5	18.6	17.4	
2	35.6	33.5	31.6	30.0	28.4	27.1	24.7	22.7	21.0	19.6	18.3	17.2	16.2	15.3	14.2	
3	35.1	32.6	30.5	28.6	26.9	25.4	22.9	20.8	19.1	17.6	16.4	15.3	14.3	13.5	12.4	
4	34.7	31.9	29.6	27.5	25.8	24.2	21.6	19.5	17.7	16.3	15.1	14.0	13.1	12.3	11.2	60
5	34.4	31.4	28.8	26.7	24.8	23.2	20.5	18.4	16.7	15.3	14.1	13.0	12.1	-	-	
10	33.1	29.2	26.2	23.7	21.7	20.0	17.2	15.2	-	-	-	-	-	-	-	
15	32.1	27.8	24.5	21.9	19.8	18.1	-	-	-	-	-	-	-	-	-	
30	30.2	25.0	21.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.1	34.3	32.6	31.2	29.8	28.6	26.4	24.5	22.9	21.5	20.2	19.1	18.1	17.2	16.0	
2	35.3	32.9	30.8	29.0	27.4	25.9	23.4	21.4	19.7	18.2	16.9	15.8	14.9	14.0	12.9	
3	34.7	31.9	29.6	27.5	25.8	24.2	21.6	19.5	17.7	16.3	15.1	14.0	13.1	12.3	11.2	
4	34.3	31.2	28.6	26.4	24.5	22.9	20.2	18.1	16.4	15.0	13.8	12.8	11.9	11.1	10.1	80
5	33.9	30.5	27.8	25.5	23.5	21.9	19.2	17.1	15.4	14.0	12.8	11.8	11.0	-	-	
10	32.4	28.2	25.0	22.4	20.3	18.6	15.9	13.9	-	-	-	-	-	-	-	
15	31.4	26.7	23.2	20.5	18.4	16.7	-	-	-	-	-	-	-	-	-	
30	29.2	23.7	20.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	35.8	33.9	32.1	30.5	29.1	27.8	25.5	23.5	21.9	20.4	19.2	18.0	17.0	16.2	15.0	
2	35.0	32.4	30.2	28.2	26.5	25.0	22.4	20.3	18.6	17.1	15.9	14.8	13.9	13.0	12.0	
3	34.4	31.4	28.8	26.7	24.8	23.2	20.5	18.4	16.7	15.3	14.1	13.0	12.1	11.4	10.4	
4	33.9	30.5	27.8	25.5	23.5	21.9	19.2	17.1	15.4	14.0	12.8	11.8	11.0	10.3	9.3	100
5	33.4	29.8	26.9	24.5	22.5	20.8	18.1	16.0	14.3	13.0	11.9	10.9	10.1	-	-	
10	31.8	27.4	24.0	21.4	19.3	17.5	14.9	12.9	-	-	-	-	-	-	-	
15	30.7	25.8	22.2	19.5	17.4	15.7	-	-	-	-	-	-	-	-	-	
30	28.5	22.7	18.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	35.4	33.1	31.0	29.2	27.6	26.2	23.7	21.7	20.0	18.5	17.2	16.1	15.2	14.2	12.5	
2	34.4	31.4	28.8	26.7	24.8	23.2	20.5	18.4	16.7	15.3	14.1	13.0	12.1	11.4	10.4	
3	33.6	30.2	27.3	25.0	23.0	21.3	18.6	16.5	14.8	13.5	12.3	11.4	10.5	9.8	8.9	
4	33.1	29.2	26.2	23.7	21.7	20.0	17.2	15.2	13.5	12.2	11.1	10.2	9.5	8.8	8.0	150
5	32.6	28.4	25.3	22.7	20.6	18.9	16.2	14.2	12.6	11.3	10.3	9.4	8.7	-	-	
10	30.7	25.8	22.2	19.5	17.4	15.7	13.1	11.2	-	-	-	-	-	-	-	
15	29.4	24.0	20.3	17.5	15.5	13.8	-	-	-	-	-	-	-	-	-	
30	26.9	20.8	17.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	34.4	31.4	28.8	26.7	24.8	23.2	20.5	18.4	16.4	14.1	12.3	11.0	9.9	9.0	7.9	
2	33.1	29.2	26.2	23.7	21.7	20.0	17.2	15.2	13.0	11.2	9.8	8.7	7.8	7.1	6.3	
3	32.1	27.8	24.5	21.9	19.8	18.0	15.4	13.4	11.8	10.2	8.9	7.9	7.2	6.5	5.7	
4	31.4	26.7	23.2	20.5	18.4	16.7	14.1	12.1	10.7	9.5	8.5	7.6	6.8	6.2	5.4	300
5	30.7	25.8	22.2	19.5	17.4	15.7	13.1	11.2	9.9	8.8	7.9	7.2	6.6	-	-	
10	28.4	22.7	18.9	16.2	14.2	12.6	10.3	8.7	-	-	-	-	-	-	-	
15	26.9	20.8	17.0	14.3	12.4	10.9	-	-	-	-	-	-	-	-	-	
30	24.0	17.5	13.8	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

■ 1.0 - 3 Ø - 150 / 180 Hz

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec) Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)																
z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	**n**
1	75.8	72.8	70.9	69.4	68.2	67.2	65.4	64.0	62.8	61.7	60.7	59.8	58.7	57.2	55.1	
2	75.8	72.8	70.9	69.4	68.2	67.2	65.4	63.6	61.2	58.9	56.8	54.8	53.0	51.3	48.9	
3	75.8	72.8	70.9	69.4	68.2	67.2	63.9	60.9	58.2	55.7	53.4	51.3	49.3	47.5	45.0	
4	75.8	72.8	70.9	69.4	67.6	65.6	62.0	58.8	55.8	53.2	50.8	48.6	46.6	44.7	42.2	5
5	75.8	72.8	70.9	68.7	66.4	64.3	60.4	57.0	53.9	51.2	48.7	46.5	44.4	-	-	
10	75.4	71.6	68.2	65.1	62.2	59.6	55.0	51.1	-	-	-	-	-	-	-	
15	74.5	70.0	66.1	62.5	59.4	56.5	-	-	-	-	-	-	-	-	-	
30	72.7	66.8	61.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	75.8	72.8	70.9	69.4	68.2	67.2	65.4	63.6	61.2	58.9	56.8	54.8	53.0	51.3	48.9	
2	75.8	72.8	70.9	69.4	67.6	65.6	62.0	58.7	55.8	53.2	50.8	48.6	46.5	44.7	42.2	
3	75.8	72.8	70.4	67.8	65.4	63.1	59.0	55.5	52.3	49.5	46.9	44.6	42.6	40.7	38.1	
4	75.8	72.3	69.2	66.3	63.6	61.2	56.8	53.0	49.7	46.7	44.1	41.8	39.7	37.8	35.3	10
5	75.4	71.6	68.1	65.0	62.2	59.5	54.9	51.0	47.6	44.6	41.9	39.6	37.5	-	-	
10	73.8	68.7	64.3	60.4	57.0	53.9	48.7	44.4	-	-	-	-	-	-	-	
15	72.6	66.7	61.7	57.4	53.6	50.3	-	-	-	-	-	-	-	-	-	
30	70.0	62.5	56.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	75.8	72.8	70.9	69.4	67.6	65.6	62.0	58.7	55.8	53.2	50.7	48.5	46.5	44.7	42.1	
2	75.8	72.3	69.2	66.3	63.6	61.2	56.8	53.0	49.7	46.7	44.1	41.8	39.7	37.8	35.3	
3	75.0	70.9	67.2	63.9	60.9	58.1	53.3	49.3	45.8	42.8	40.1	37.8	35.7	33.8	31.4	
4	74.3	69.7	65.6	62.0	58.7	55.8	50.8	46.5	43.0	39.9	37.3	34.9	32.9	31.1	28.7	20
5	73.7	68.7	64.3	60.4	57.0	53.9	48.7	44.4	40.8	37.7	35.1	32.8	30.8	-	-	
10	71.6	65.0	59.5	54.9	51.0	47.6	41.9	37.5	-	-	-	-	-	-	-	
15	70.0	62.4	56.4	51.4	47.2	43.6	-	-	-	-	-	-	-	-	-	
30	66.7	57.4	50.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	75.8	72.3	69.2	66.3	63.6	61.2	56.8	53.0	49.7	46.7	44.1	41.8	39.7	37.8	35.3	
2	74.3	69.7	65.6	62.0	58.7	55.8	50.7	46.5	43.0	39.9	37.2	34.9	32.9	31.0	28.7	
3	73.2	67.8	63.1	59.0	55.5	52.3	46.9	42.6	38.9	35.9	33.3	31.0	29.0	27.3	25.1	
4	72.3	66.3	61.2	56.8	53.0	49.7	44.1	39.7	36.1	33.1	30.5	28.3	26.4	24.8	22.7	40
5	71.6	65.0	59.5	54.9	51.0	47.5	41.9	37.5	33.9	30.9	28.5	26.3	24.5	-	-	
10	68.7	60.4	53.9	48.7	44.4	40.8	35.1	30.8	-	-	-	-	-	-	-	
15	66.6	57.3	50.3	44.8	40.4	36.7	-	-	-	-	-	-	-	-	-	
30	62.4	51.4	43.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	75.0	70.9	67.2	63.9	60.9	58.1	53.3	49.3	45.8	42.8	40.1	36.7	33.0	30.0	26.4	
2	73.2	67.8	63.1	59.0	55.5	52.3	46.9	42.6	38.9	35.9	33.3	31.0	29.0	27.3	24.8	
3	71.9	65.6	60.3	55.8	51.9	48.5	43.0	38.5	34.9	31.9	29.4	27.3	25.4	23.8	21.7	
4	70.9	63.9	58.1	53.3	49.3	45.8	40.1	35.7	32.1	29.2	26.8	24.8	23.0	21.5	19.5	60
5	70.0	62.4	56.3	51.3	47.2	43.6	37.9	33.5	30.0	27.2	24.9	22.9	21.2	-	-	
10	66.6	57.3	50.3	44.8	40.3	36.7	31.1	27.0	-	-	-	-	-	-	-	
15	64.3	53.9	46.4	40.8	36.3	32.8	-	-	-	-	-	-	-	-	-	
30	59.5	47.6	39.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	74.3	69.7	65.6	62.0	58.7	55.8	50.7	46.5	43.0	36.9	32.2	28.7	25.8	23.5	20.6	
2	72.3	66.3	61.2	56.8	53.0	49.7	44.1	39.7	36.1	33.1	29.7	26.4	23.8	21.6	19.0	
3	70.9	63.9	58.1	53.3	49.3	45.8	40.1	35.7	32.1	29.2	26.8	24.8	23.0	21.0	18.5	
4	69.7	62.0	55.8	50.7	46.5	43.0	37.2	32.9	29.4	26.6	24.3	22.4	20.7	19.3	17.5	80
5	68.7	60.4	53.9	48.7	44.4	40.7	35.0	30.7	27.4	24.7	22.5	20.6	19.0	-	-	
10	65.0	54.9	47.5	41.9	37.5	33.9	28.5	24.5	-	-	-	-	-	-	-	
15	62.4	51.3	43.6	37.9	33.5	30.0	-	-	-	-	-	-	-	-	-	
30	57.3	44.8	36.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	73.7	68.7	64.3	60.4	57.0	53.9	48.7	42.9	35.8	30.6	26.8	23.8	21.5	19.5	17.2	
2	71.6	65.0	59.5	54.9	51.0	47.5	41.9	37.5	32.4	27.7	24.3	21.6	19.4	17.7	15.5	
3	70.0	62.4	56.3	51.3	47.1	43.6	37.9	33.5	30.0	26.8	23.4	20.8	18.7	17.0	15.0	
4	68.7	60.4	53.9	48.7	44.4	40.7	35.0	30.7	27.4	24.7	22.5	20.4	18.4	16.7	14.7	100
5	67.6	58.7	51.9	46.5	42.1	38.5	32.9	28.7	25.4	22.8	20.7	19.0	17.5	-	-	
10	63.6	53.0	45.4	39.7	35.3	31.7	26.4	22.7	-	-	-	-	-	-	-	
15	60.9	49.3	41.4	35.7	31.4	28.0	-	-	-	-	-	-	-	-	-	
30	55.5	42.6	34.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	72.5	66.6	61.6	57.3	53.5	50.2	39.1	31.3	26.1	22.4	19.6	17.4	15.7	14.2	12.5	
2	70.0	62.4	56.3	51.3	47.1	43.6	34.1	27.2	22.7	19.5	17.0	15.1	13.6	12.4	10.9	
3	68.1	59.5	52.9	47.5	43.2	39.6	32.4	25.9	21.6	18.5	16.2	14.4	12.9	11.8	10.4	
4	66.6	57.3	50.3	44.8	40.3	36.7	31.1	25.2	21.0	18.0	15.8	14.0	12.6	11.5	10.1	150
5	65.4	55.5	48.2	42.6	38.1	34.5	29.0	24.8	20.7	17.7	15.5	13.8	12.4	-	-	
10	60.9	49.3	41.4	35.7	31.4	28.0	23.0	19.5	-	-	-	-	-	-	-	
15	57.8	45.4	37.4	31.7	27.6	24.4	-	-	-	-	-	-	-	-	-	
30	51.9	38.5	30.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	70.0	62.4	56.3	49.3	39.5	32.9	24.7	19.7	16.4	14.1	12.3	11.0	9.9	9.0	7.9	
2	66.6	57.3	50.2	39.1	31.3	26.1	19.6	15.7	13.0	11.2	9.8	8.7	7.8	7.1	6.3	
3	64.3	53.9	46.4	35.8	28.6	23.8	17.9	14.3	11.9	10.2	8.9	7.9	7.2	6.5	5.7	
4	62.4	51.3	43.6	34.1	27.2	22.7	17.0	13.6	11.4	9.7	8.5	7.6	6.8	6.2	5.4	300
5	60.9	49.3	41.4	33.0	26.4	22.0	16.5	13.2	11.0	9.4	8.3	7.3	6.6	-	-	
10	55.5	42.6	34.5	29.0	24.8	20.7	15.5	12.4	-	-	-	-	-	-	-	
15	51.9	38.5	30.6	25.4	21.7	19.0	-	-	-	-	-	-	-	-	-	
30	45.4	31.7	24.4	-	-	-	-	-	-	-	-	-	-	-	-	

Caratteristica di emissione del catodo
Cathode emission characteristic
Caractéristique d'émission de la cathode
▣ 0.6 - 3 Ø - (± 0.2 A) – IEC 60613 (1989) (2010)



Caratteristica di emissione del catodo
Cathode emission characteristic
Caractéristique d'émission de la cathode
■ 1.0 - 3 Ø - (± 0.2 A) – IEC 60613 (1989) (2010)