

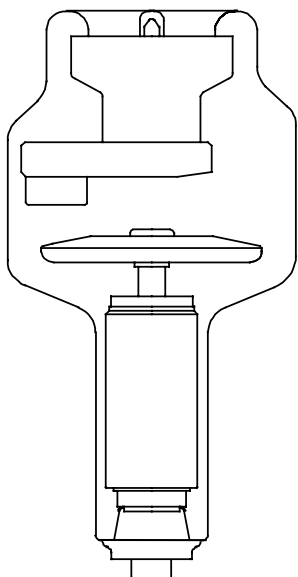


Documentazione Tubo a raggi X

Tube Documentation

Documentation du Tube

RTM 101 HS 0.6/1.2



Nr. di matricola
Tube No.
Nr de s rie

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 quip e

Documentazione N° Documentation N° N° de Documentation	Revisione Edition Version	Data di edizione Date of release Date de l' dition	Testo originale Original text Texte original
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Dichiarazione di conformit

Questo prodotto soddisfa i requisiti essenziali della direttiva 93/42/CEE in accordo alle norme IEC 60613, IEC 60336, IEC 60522, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.

Declaration of conformity

This tube fulfils the essential requirements of the directive 93/42/EEC according to standard IEC 60613, IEC 60336, IEC 60522, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.

Confirmation de conformit

Ce tube remplit les exigences essentielles de la directive 93/42/CEE en accord avec les normes IEC 60613, IEC 60336, IEC 60522, IEC 60601-1, IEC 60601-1-3, IEC 60601-2-28.



Caratteristiche - Specifications - Sp cifications

Macchie focali Focal spot Foyer	0.6 1.2	IEC 60336
Velocità di rotazione dell'anodo Anode speed Vitesse de l'anode	50 / 60 Hz 2450 / 2850 min⁻¹ 150 / 180 Hz 8500 / 10000 min⁻¹	
Potenza anodica nominale Nominal anode input power Puissance anodique nominale	26 kW 63 kW 40 kW 100 kW	IEC 60613 (1989)
Potenza anodica nominale in radiografia Nominal radiographic anode input power Puissance anodique radiographique nominale	27 kW 63 kW 41 kW 97 kW	IEC 60613 (2010)
Diametro anodico Anode diameter Diamètre de l'anode	102 mm	
Materiale anodico Anode material Matériau de l'anode	RT-TZM *	
RT = Tungsteno + Renio (5-10%) , TZM = Molibdeno + Titanio (0.40-0.55 %) + Zirconio (0.06-0.12 %) * RT = Tungsten + Rhenium (5-10%) , TZM = Molybdenum + Titanium (0.40-0.55 %) + Zirconium (0.06-0.12 %) RT = Tungstène + Rhénium (5-10%) , TZM = Molybdène + Titane (0.40-0.55 %) + Zirconium (0.06-0.12 %)		
Angolo anodico Anode angle Pente de l'anode	12.5 °	
Campo di radiazione Radiation field Champ de rayonnement	a 70 cm 30 cm a 100 cm 43 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	300 kJ 400 kHU	IEC 60613 (1989)
Dissipazione termica continua Continuous heat dissipation Dissipation thermique continue	1000 W 80 000 HU/min	
Dissipazione termica massima Maximum heat dissipation Dissipation thermique maximale	1500 W 120 000 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:

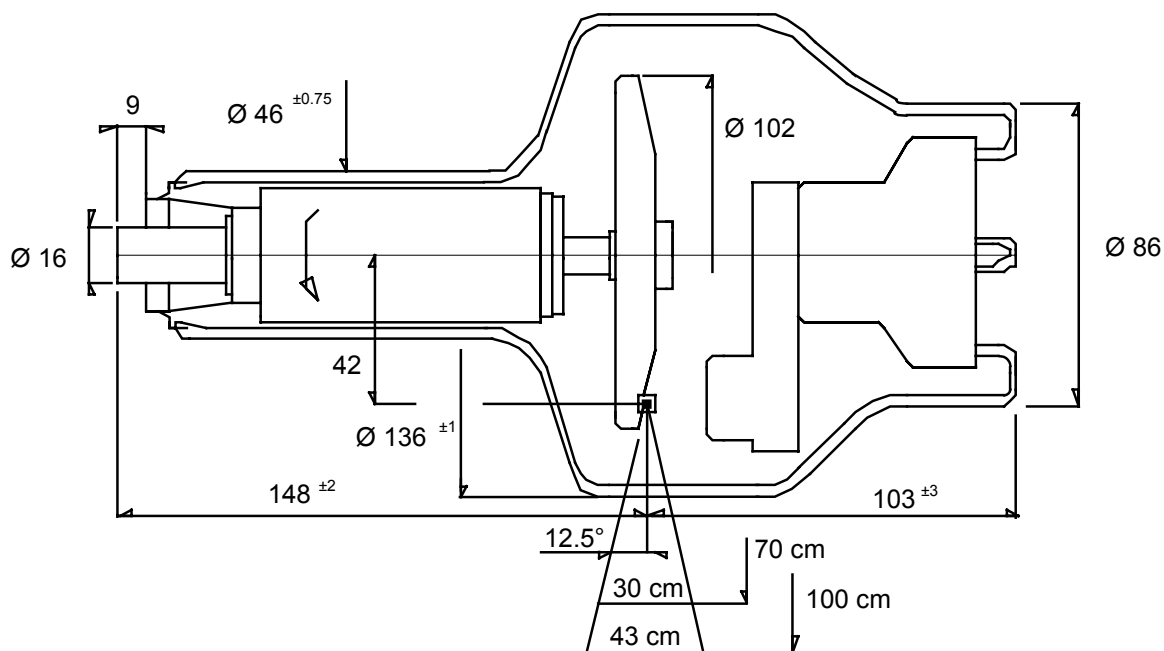
Les données indiquées dans cette documentation sont calculées pour:

Potenza anodica di equilibrio termico	% della capacità termica anodica	
Equivalent anode input power	% of maximum anode heat content	33%
Puissance anodique d'équilibre thermique	% de chaleur max. accumulée dans l'anode	

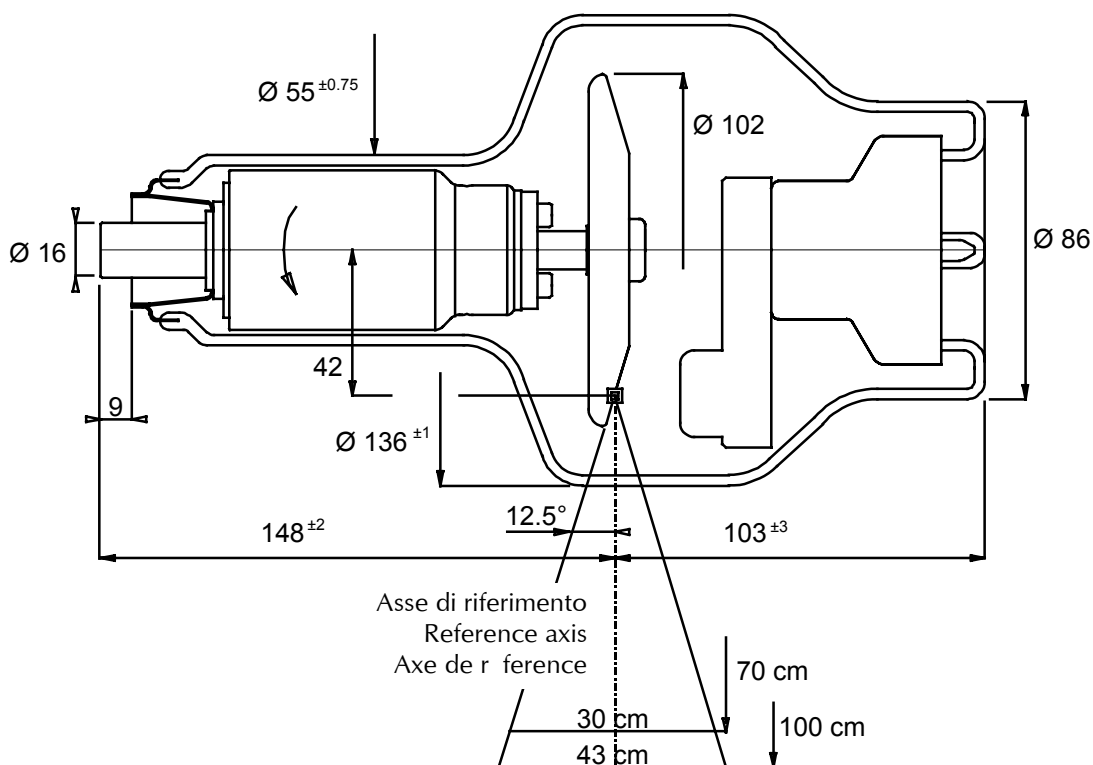


	trasporto e stoccaggio transportation and storage transport et stockage	funzionamento operation op ration	
Limiti di temperatura Temperature limits Limites de temp rature	-10°C ÷ +80°C	+10°C ÷ +40°C	
Limiti di umidit� Humidity limits Limites d'humidit�	max. 80%	max. 75%	
Limiti di pressione Pressure limits Limites de pression	500 ÷ 1060 hPa	700 ÷ 1060 hPa	

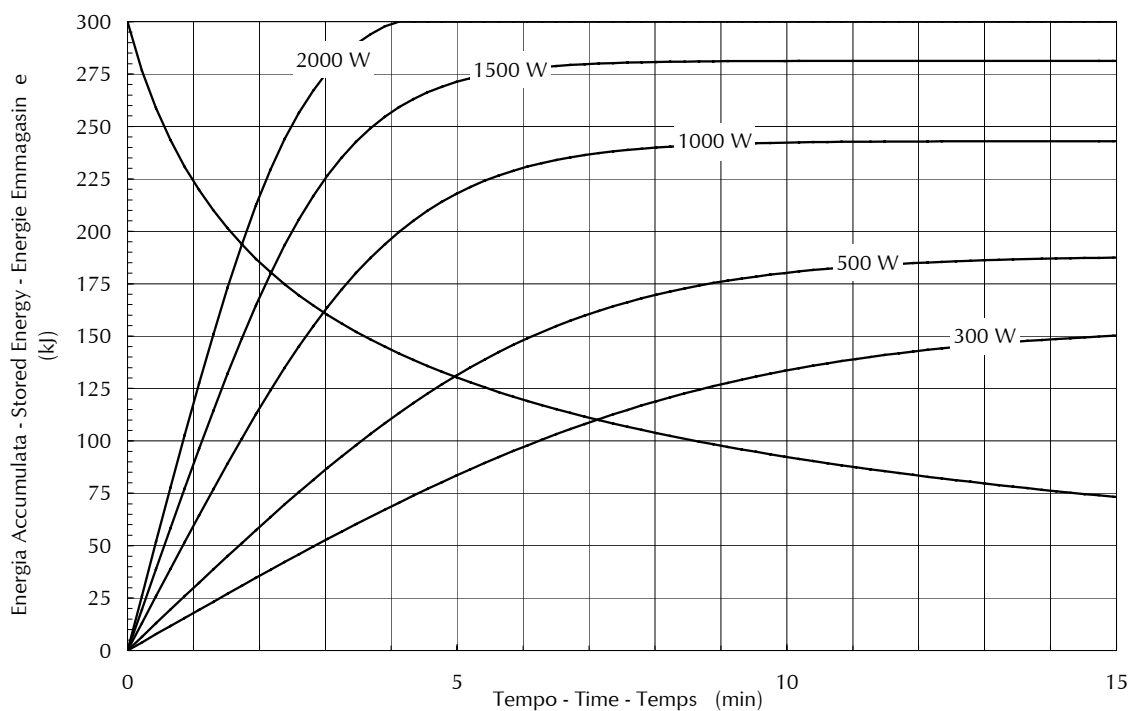
Versione standard - Standard version - Version standard



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



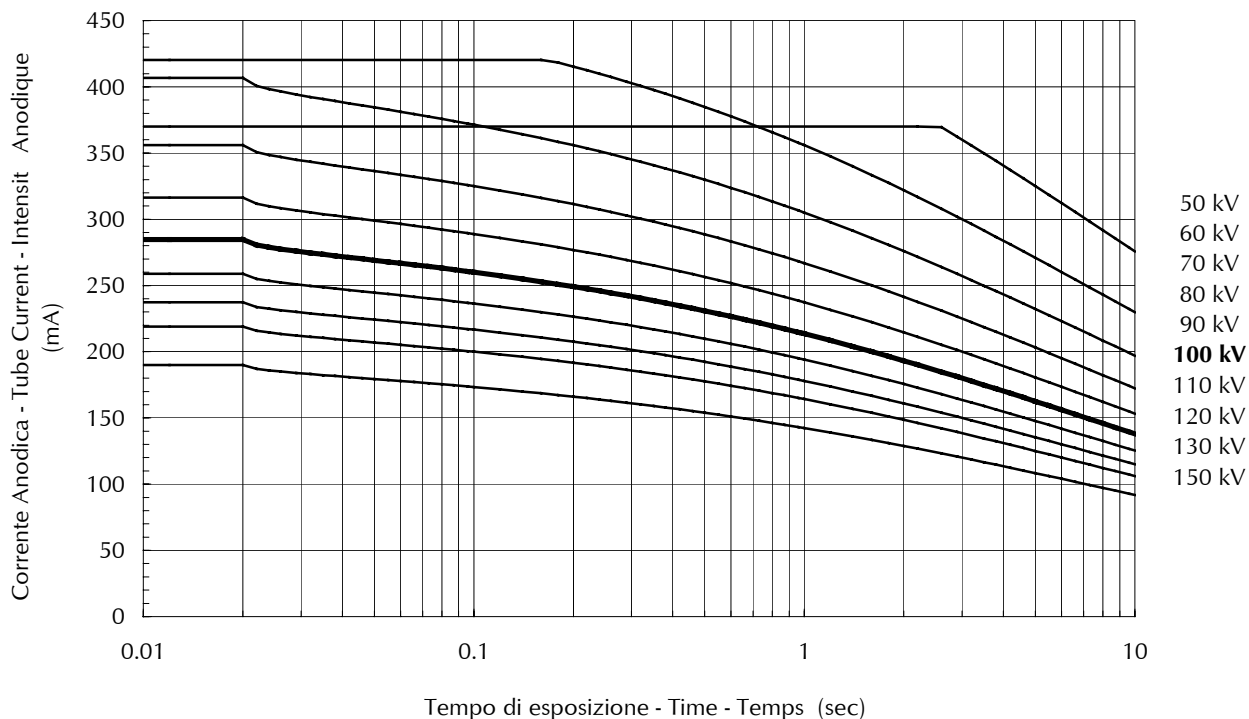
Curve di riscaldamento e raffreddamento dell'anodo
Anode heating and cooling curves
Courbes d' chauffage et de refroidissement de l'anode
IEC 60613 (1989)





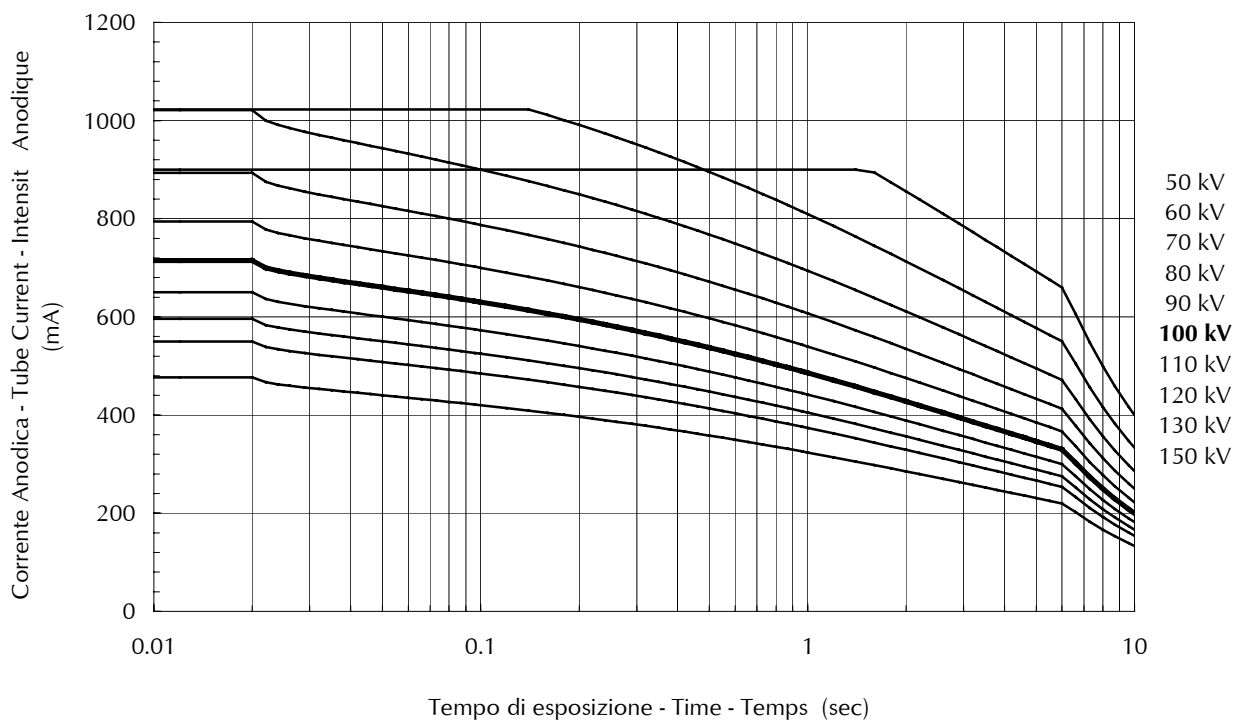
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

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



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

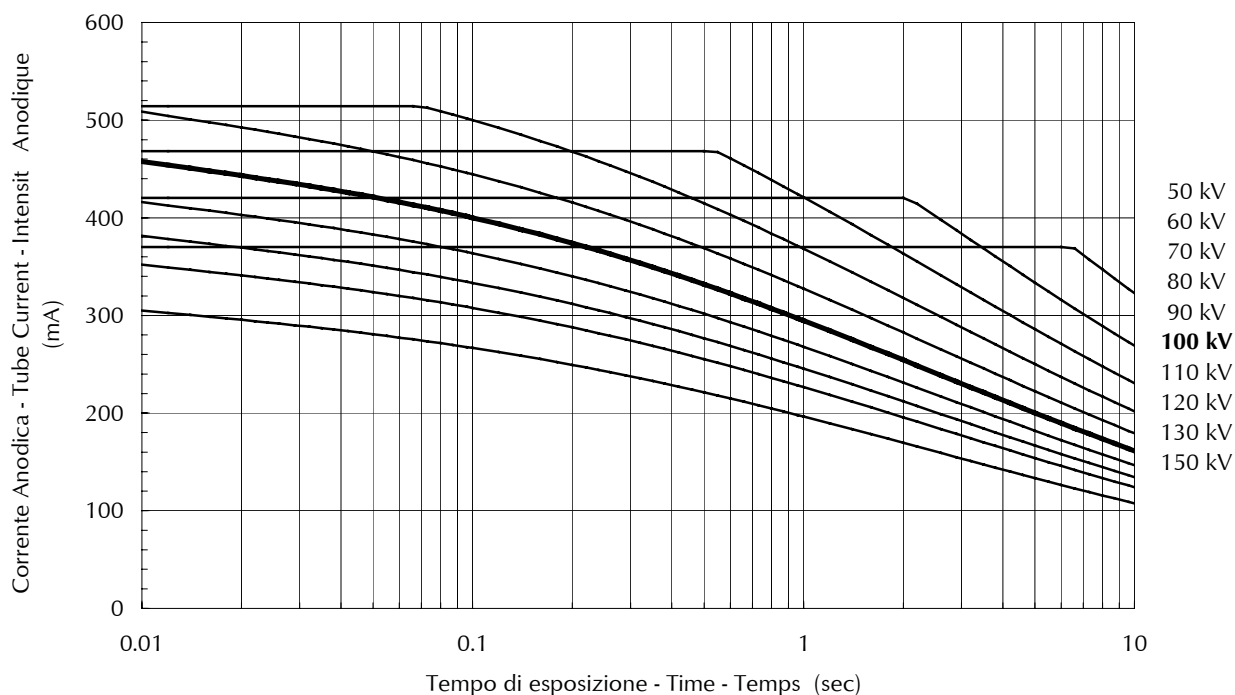
■ **1.2 - 3 Ø - 50 / 60 Hz - IEC 60613 (1989) (2010)**





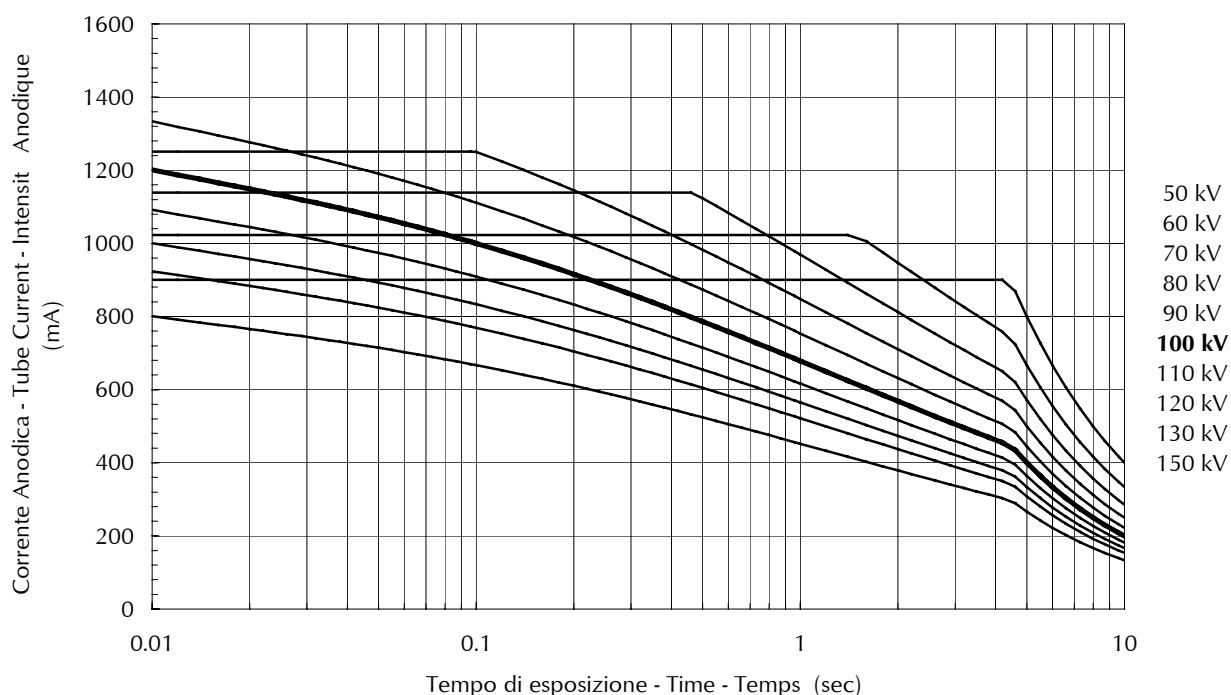
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

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



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

■ **1.2 - 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 s ries), 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	5
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	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	-	-	-	-	-	-	-	-	-	-	-	-	10
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	20
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	40
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	60
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	12.8	
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	80
1	22.0	21.5	20.9	20.3	19.8	19.3	18.4	17.5	16.7	16.0	15.4	14.1	12.7	11.6	10.2	
2	21.9	21.0	20.2	19.5	18.8	18.1	17.0	16.0	15.1	14.3	13.5	12.6	11.4	10.3	9.1	
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	10.9	9.9	8.7	
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	9.7	8.5	
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	-	-	-	-	-	-	-	-	-	-	-	-	100
1	22.0	21.3	20.7	20.1	19.5	19.0	17.9	17.0	16.2	15.3	13.4	11.9	10.7	9.8	8.6	
2	21.7	20.8	19.9	19.1	18.4	17.7	16.5	15.4	14.5	13.4	11.7	10.4	9.4	8.5	7.5	
3	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	13.4	12.5	11.1	9.9	8.9	8.1	7.1	
4	21.3	20.1	19.0	17.9	17.0	16.2	14.8	13.6	12.6	11.7	10.8	9.6	8.7	7.9	6.9	
5	21.2	19.8	18.6	17.5	16.5	15.7	14.2	13.0	12.0	11.1	10.3	9.5	8.5	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	150
1	21.9	21.0	20.3	19.6	18.9	18.3	17.1	16.1	13.4	11.5	10.1	9.0	8.1	7.3	6.5	
2	21.5	20.4	19.4	18.5	17.6	16.9	15.5	13.4	11.2	9.6	8.4	7.4	6.7	6.1	5.4	
3	21.3	19.9	18.8	17.7	16.8	15.9	14.5	12.5	10.4	8.9	7.8	6.9	6.2	5.7	5.0	
4	21.0	19.6	18.3	17.1	16.1	15.2	13.7	12.0	10.0	8.6	7.5	6.7	6.0	5.5	4.8	
5	20.9	19.2	17.8	16.6	15.6	14.7	13.1	11.8	9.8	8.4	7.3	6.5	5.9	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	300
1	21.5	20.4	19.4	18.5	17.6	16.9	13.5	10.8	9.0	7.7	6.8	6.0	5.4	4.9	4.3	
2	21.0	19.6	18.3	17.1	16.1	13.4	10.1	8.1	6.7	5.8	5.0	4.5	4.0	3.7	3.2	
3	20.7	19.0	17.5	16.2	14.3	11.9	8.9	7.2	6.0	5.1	4.5	4.0	3.6	3.3	2.9	
4	20.4	18.5	16.9	15.5	13.4	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.3	3.0	2.7	
5	20.2	18.1	16.4	15.0	12.8	10.7	8.0	6.4	5.4	4.6	4.0	3.6	3.2	-	-	
10	19.2	16.6	14.7	13.1	11.8	9.8	7.3	5.9	-	-	-	-	-	-	-	
15	18.6	15.7	13.6	12.0	10.7	9.5	-	-	-	-	-	-	-	-	-	
30	17.3	13.9	11.6	-	-	-	-	-	-	-	-	-	-	-	-	



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

■ 1.2 - 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 s ries), 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	56.0	56.0	54.6	53.6	52.8	52.2	51.2	50.4	49.7	49.1	48.5	48.0	47.2	46.3	45.2	5
2	55.5	55.5	54.6	53.6	52.8	52.2	51.1	49.7	48.5	47.3	46.1	45.0	44.0	43.0	41.6	
3	55.2	55.2	54.2	53.3	52.4	51.5	49.9	48.3	46.9	45.5	44.2	43.0	41.8	40.7	39.2	
4	54.9	54.9	53.8	52.7	51.7	50.8	48.9	47.2	45.6	44.1	42.7	41.4	40.2	39.0	37.4	
5	54.6	54.6	53.4	52.3	51.2	50.1	48.1	46.3	44.6	43.0	41.5	40.1	38.9	-	-	
10	54.6	53.7	52.0	50.5	49.1	47.7	45.2	43.0	-	-	-	-	-	-	-	
15	54.6	53.0	51.1	49.3	47.7	46.1	-	-	-	-	-	-	-	-	-	
30	54.2	51.5	49.1	-	-	-	-	-	-	-	-	-	-	-	-	10
1	55.5	55.5	54.6	53.6	52.8	52.2	51.0	49.7	48.4	47.2	46.1	45.0	44.0	43.0	41.6	
2	54.9	54.9	53.8	52.7	51.7	50.7	48.9	47.2	45.6	44.1	42.7	41.4	40.1	39.0	37.3	
3	54.6	54.4	53.1	51.8	50.6	49.5	47.3	45.4	43.6	41.9	40.4	38.9	37.6	36.4	34.6	
4	54.6	54.0	52.5	51.1	49.7	48.5	46.1	44.0	42.0	40.3	38.6	37.1	35.7	34.4	32.7	
5	54.6	53.6	52.0	50.4	49.0	47.6	45.1	42.8	40.8	38.9	37.2	35.7	34.2	-	-	
10	54.6	52.3	50.1	48.1	46.3	44.6	41.5	38.9	-	-	-	-	-	-	-	
15	54.1	51.3	48.8	46.5	44.4	42.5	-	-	-	-	-	-	-	-	-	
30	53.0	49.3	46.1	-	-	-	-	-	-	-	-	-	-	-	-	20
1	54.9	54.9	53.8	52.7	51.7	50.7	48.9	47.1	45.5	44.1	42.7	41.3	40.1	38.8	34.2	
2	54.6	53.9	52.5	51.0	49.7	48.4	46.1	44.0	42.0	40.2	38.6	37.1	35.7	34.4	32.6	
3	54.6	53.3	51.5	49.8	48.3	46.8	44.2	41.8	39.7	37.7	36.0	34.4	32.9	31.6	29.8	
4	54.6	52.7	50.7	48.9	47.2	45.6	42.7	40.1	37.9	35.8	34.0	32.4	30.9	29.5	27.7	
5	54.6	52.2	50.1	48.1	46.2	44.5	41.4	38.8	36.4	34.3	32.5	30.8	29.3	-	-	
10	53.6	50.4	47.6	45.1	42.8	40.8	37.2	34.2	-	-	-	-	-	-	-	
15	52.9	49.1	45.9	43.1	40.6	38.3	-	-	-	-	-	-	-	-	-	
30	51.3	46.5	42.5	-	-	-	-	-	-	-	-	-	-	-	-	40
1	54.6	53.9	52.5	51.0	49.7	48.4	46.1	43.9	37.9	32.5	28.4	25.2	22.7	20.7	18.2	
2	54.6	52.7	50.7	48.9	47.1	45.5	42.7	40.1	35.6	30.5	26.7	23.7	21.4	19.4	17.1	
3	54.4	51.8	49.5	47.3	45.4	43.6	40.3	37.6	34.8	29.9	26.1	23.2	20.9	19.0	16.7	
4	53.9	51.0	48.4	46.1	44.0	42.0	38.6	35.7	33.2	29.5	25.8	23.0	20.7	18.8	16.5	
5	53.6	50.4	47.6	45.1	42.8	40.7	37.2	34.2	31.6	29.3	25.7	22.8	20.5	-	-	
10	52.2	48.1	44.5	41.4	38.8	36.4	32.5	29.3	-	-	-	-	-	-	-	
15	51.2	46.4	42.4	39.0	36.2	33.7	-	-	-	-	-	-	-	-	-	
30	49.1	43.1	38.3	-	-	-	-	-	-	-	-	-	-	-	-	60
1	54.6	53.3	51.5	49.8	48.3	46.8	40.1	32.1	26.8	22.9	20.1	17.8	16.1	14.6	12.8	
2	54.4	51.8	49.5	47.3	45.4	43.6	36.7	29.4	24.5	21.0	18.4	16.3	14.7	13.4	11.8	
3	53.8	50.7	48.0	45.5	43.3	41.3	35.6	28.5	23.7	20.3	17.8	15.8	14.2	12.9	11.4	
4	53.3	49.8	46.8	44.2	41.8	39.6	35.0	28.0	23.3	20.0	17.5	15.6	14.0	12.7	11.2	
5	52.8	49.1	45.8	43.0	40.5	38.3	34.5	27.7	23.1	19.8	17.3	15.4	13.9	-	-	
10	51.2	46.4	42.4	39.0	36.1	33.7	29.6	26.4	-	-	-	-	-	-	-	
15	50.1	44.5	40.1	36.4	33.4	30.8	-	-	-	-	-	-	-	-	-	
30	47.6	40.8	35.7	-	-	-	-	-	-	-	-	-	-	-	-	80
1	54.6	52.7	50.7	48.9	47.1	42.4	31.8	25.5	21.2	18.2	15.9	14.1	12.7	11.6	10.2	
2	53.9	51.0	48.4	46.1	43.9	37.9	28.4	22.7	18.9	16.2	14.2	12.6	11.4	10.3	9.1	
3	53.3	49.8	46.8	44.2	41.8	36.3	27.3	21.8	18.2	15.6	13.6	12.1	10.9	9.9	8.7	
4	52.7	48.9	45.5	42.7	40.1	35.6	26.7	21.4	17.8	15.3	13.3	11.9	10.7	9.7	8.5	
5	52.2	48.0	44.5	41.4	38.7	35.1	26.3	21.1	17.6	15.1	13.2	11.7	10.5	-	-	
10	50.4	45.1	40.7	37.2	34.2	31.6	25.7	20.5	-	-	-	-	-	-	-	
15	49.1	43.0	38.3	34.5	31.4	28.8	-	-	-	-	-	-	-	-	-	
30	46.4	39.0	33.7	-	-	-	-	-	-	-	-	-	-	-	-	100
1	54.6	52.2	50.0	48.0	42.9	35.8	26.8	21.5	17.9	15.3	13.4	11.9	10.7	9.8	8.6	
2	53.6	50.4	47.6	45.0	37.4	31.2	23.4	18.7	15.6	13.4	11.7	10.4	9.4	8.5	7.5	
3	52.8	49.1	45.8	43.0	35.6	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.1	
4	52.2	48.0	44.5	41.4	34.7	28.9	21.7	17.4	14.5	12.4	10.8	9.6	8.7	7.9	6.9	
5	51.7	47.1	43.3	40.1	34.2	28.5	21.4	17.1	14.2	12.2	10.7	9.5	8.5	-	-	
10	49.7	44.0	39.4	35.7	32.6	27.6	20.7	16.5	-	-	-	-	-	-	-	
15	48.3	41.8	36.8	32.9	29.8	27.2	-	-	-	-	-	-	-	-	-	
30	45.4	37.6	32.1	-	-	-	-	-	-	-	-	-	-	-	-	150
1	54.0	51.2	48.7	40.3	32.3	26.9	20.2	16.1	13.4	11.5	10.1	9.0	8.1	7.3	6.5	
2	52.8	49.1	44.6	33.5	26.8	22.3	16.7	13.4	11.2	9.6	8.4	7.4	6.7	6.1	5.4	
3	51.9	47.6	41.6	31.2	25.0	20.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.7	5.0	
4	51.2	46.4	40.1	30.1	24.1	20.0	15.0	12.0	10.0	8.6	7.5	6.7	6.0	5.5	4.8	
5	50.6	45.4	39.2	29.4	23.5	19.6	14.7	11.8	9.8	8.4	7.3	6.5	5.9	-	-	
10	48.3	41.8	36.8	28.0	22.4	18.7	14.0	11.2	-	-	-	-	-	-	-	
15	46.7	39.4	34.1	27.6	22.0	18.4	-	-	-	-	-	-	-	-	-	
30	43.4	34.9	29.2	-	-	-	-	-	-	-	-	-	-	-	-	300
1	52.8	49.1	36.0	27.0	21.6	18.0	13.5	10.8	9.0	7.7	6.8	6.0	5.4	4.9	4.3	
2	51.2	40.3	26.9	20.2	16.1	13.4	10.1	8.1	6.7	5.8	5.0	4.5	4.0	3.7	3.2	
3	50.0	35.8	23.8	17.9	14.3	11.9	8.9	7.2	6.0	5.1	4.5	4.0	3.6	3.3	2.9	
4	49.1	33.5	22.3	16.7	13.4	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.3	3.0	2.7	
5	48.3	32.1	21.4	16.1	12.8	10.7	8.0	6.4	5.4	4.6	4.0	3.6	3.2	-	-	
10	45.4	29.4	19.6	14.7	11.8	9.8	7.3	5.9	-	-	-	-	-	-	-	
15	43.3	28.5	19.0	14.2	11.4	9.5	-	-	-	-	-	-	-	-	-	
30	39.4	27.6	18.4	-	-	-	-	-	-	-	-	-	-	-	-	



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'expos. de la s ries), 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	5
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	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	-	-	-	-	-	-	-	-	-	-	-	-	10
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	20
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	40
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	18.2	
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	60
1	36.3	34.7	33.3	31.9	30.7	29.6	27.5	25.8	24.2	22.8	20.1	17.8	16.1	14.6	12.8	
2	35.6	33.5	31.6	30.0	28.4	27.1	24.7	22.7	21.0	19.6	18.3	16.3	14.7	13.4	11.8	
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	14.2	12.9	11.4	
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	80
1	36.1	34.3	32.6	31.2	29.8	28.6	26.4	24.5	21.2	18.2	15.9	14.1	12.7	11.6	10.2	
2	35.3	32.9	30.8	29.0	27.4	25.9	23.4	21.4	18.9	16.2	14.2	12.6	11.4	10.3	9.1	
3	34.7	31.9	29.6	27.5	25.8	24.2	21.6	19.5	17.7	15.6	13.6	12.1	10.9	9.9	8.7	
4	34.3	31.2	28.6	26.4	24.5	22.9	20.2	18.1	16.4	15.0	13.3	11.9	10.7	9.7	8.5	
5	33.9	30.5	27.8	25.5	23.5	21.9	19.2	17.1	15.4	14.0	12.8	11.7	10.5	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	100
1	35.8	33.9	32.1	30.5	29.1	27.8	25.5	21.5	17.9	15.3	13.4	11.9	10.7	9.8	8.6	
2	35.0	32.4	30.2	28.2	26.5	25.0	22.4	18.7	15.6	13.4	11.7	10.4	9.4	8.5	7.5	
3	34.4	31.4	28.8	26.7	24.8	23.2	20.5	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.1	
4	33.9	30.5	27.8	25.5	23.5	21.9	19.2	17.1	14.5	12.4	10.8	9.6	8.7	7.9	6.9	
5	33.4	29.8	26.9	24.5	22.5	20.8	18.1	16.0	14.2	12.2	10.7	9.5	8.5	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	150
1	35.4	33.1	31.0	29.2	27.6	26.2	20.2	16.1	13.4	11.5	10.1	9.0	8.1	7.3	6.5	
2	34.4	31.4	28.8	26.7	24.8	22.3	16.7	13.4	11.2	9.6	8.4	7.4	6.7	6.1	5.4	
3	33.6	30.2	27.3	25.0	23.0	20.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.7	5.0	
4	33.1	29.2	26.2	23.7	21.7	20.0	15.0	12.0	10.0	8.6	7.5	6.7	6.0	5.5	4.8	
5	32.6	28.4	25.3	22.7	20.6	18.9	14.7	11.8	9.8	8.4	7.3	6.5	5.9	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	300
1	34.4	31.4	28.8	26.7	21.6	18.0	13.5	10.8	9.0	7.7	6.8	6.0	5.4	4.9	4.3	
2	33.1	29.2	26.2	20.2	16.1	13.4	10.1	8.1	6.7	5.8	5.0	4.5	4.0	3.7	3.2	
3	32.1	27.8	23.8	17.9	14.3	11.9	8.9	7.2	6.0	5.1	4.5	4.0	3.6	3.3	2.9	
4	31.4	26.7	22.3	16.7	13.4	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.3	3.0	2.7	
5	30.7	25.8	21.4	16.1	12.8	10.7	8.0	6.4	5.4	4.6	4.0	3.6	3.2	-	-	
10	28.4	22.7	18.9	14.7	11.8	9.8	7.3	5.9	-	-	-	-	-	-	-	
15	26.9	20.8	17.0	14.2	11.4	9.5	-	-	-	-	-	-	-	-	-	
30	24.0	17.5	13.8	-	-	-	-	-	-	-	-	-	-	-	-	



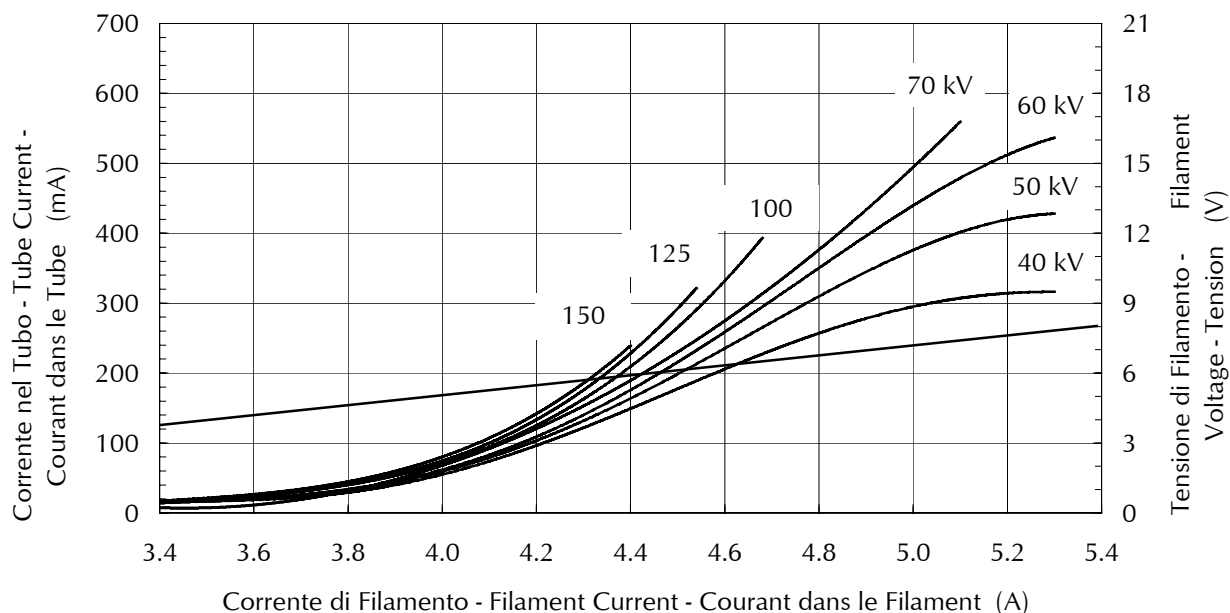
Abaco per carichi in serie - Serial load rating - Abaque de charges successives

■ 1.2 - 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'expos. de la s ries), 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	96.1	91.9	89.3	87.3	85.7	84.3	81.9	80.0	78.3	76.9	75.5	74.4	73.0	71.0	68.2	5
2	96.1	91.9	89.3	87.3	85.7	84.3	81.9	79.5	76.2	73.2	70.4	67.8	65.4	63.2	60.1	
3	96.1	91.9	89.3	87.3	85.7	84.3	79.9	75.8	72.2	68.9	65.9	63.1	60.6	58.2	55.0	
4	96.1	91.9	89.3	87.3	84.9	82.2	77.3	73.0	69.1	65.7	62.5	59.7	57.0	54.7	51.4	
5	96.1	91.9	89.3	86.4	83.3	80.4	75.2	70.7	66.6	63.0	59.8	56.9	54.3	-	-	
10	95.5	90.3	85.6	81.4	77.6	74.1	68.0	62.9	-	-	-	-	-	-	-	
15	94.3	88.2	82.8	78.0	73.8	70.0	-	-	-	-	-	-	-	-	-	
30	91.7	83.8	77.1	-	-	-	-	-	-	-	-	-	-	-	-	10
1	96.1	91.9	89.3	87.3	85.7	84.3	81.9	79.5	76.2	73.2	70.4	67.8	65.4	63.1	60.0	
2	96.1	91.9	89.3	87.3	84.8	82.2	77.3	73.0	69.1	65.6	62.5	59.6	57.0	54.6	51.4	
3	96.1	91.9	88.7	85.1	81.9	78.8	73.4	68.6	64.5	60.8	57.5	54.6	51.9	49.5	46.3	
4	96.1	91.3	87.0	83.1	79.5	76.2	70.4	65.4	61.1	57.3	53.9	50.9	48.3	45.9	42.7	
5	95.5	90.3	85.6	81.4	77.5	74.0	67.9	62.8	58.3	54.5	51.1	48.1	45.5	-	-	
10	93.3	86.4	80.4	75.2	70.7	66.6	59.8	54.3	-	-	-	-	-	-	-	
15	91.6	83.6	76.9	71.1	66.2	61.9	-	-	-	-	-	-	-	-	-	
30	88.2	78.0	70.0	-	-	-	-	-	-	-	-	-	-	-	-	20
1	96.1	91.9	89.3	87.3	84.8	82.2	77.3	73.0	69.1	61.0	53.4	47.5	42.7	38.8	34.2	
2	96.1	91.3	87.0	83.1	79.5	76.2	70.4	65.4	61.0	57.2	51.7	45.9	41.3	37.6	33.1	
3	95.0	89.3	84.3	79.8	75.8	72.2	65.8	60.5	56.0	52.1	48.8	45.4	40.9	37.2	32.7	
4	94.0	87.7	82.2	77.3	73.0	69.1	62.5	57.0	52.4	48.5	45.1	42.2	39.6	37.0	32.5	
5	93.2	86.3	80.4	75.2	70.6	66.6	59.8	54.2	49.6	45.7	42.4	39.5	37.0	-	-	
10	90.3	81.4	74.0	67.9	62.8	58.3	51.1	45.5	-	-	-	-	-	-	-	
15	88.1	77.9	69.8	63.3	57.8	53.3	-	-	-	-	-	-	-	-	-	
30	83.6	71.1	61.9	-	-	-	-	-	-	-	-	-	-	-	-	40
1	96.1	91.3	87.0	83.1	79.5	75.7	56.8	45.4	37.9	32.5	28.4	25.2	22.7	20.7	18.2	
2	94.0	87.7	82.2	77.3	73.0	69.1	53.4	42.7	35.6	30.5	26.7	23.7	21.4	19.4	17.1	
3	92.5	85.1	78.8	73.4	68.6	64.5	52.2	41.8	34.8	29.9	26.1	23.2	20.9	19.0	16.7	
4	91.3	83.1	76.2	70.4	65.4	61.0	51.7	41.3	34.4	29.5	25.8	23.0	20.7	18.8	16.5	
5	90.2	81.3	74.0	67.9	62.7	58.3	51.1	41.1	34.2	29.3	25.7	22.8	20.5	-	-	
10	86.3	75.2	66.6	59.8	54.2	49.6	42.4	37.0	-	-	-	-	-	-	-	
15	83.6	71.1	61.8	54.7	49.1	44.5	-	-	-	-	-	-	-	-	-	
30	77.9	63.3	53.3	-	-	-	-	-	-	-	-	-	-	-	-	60
1	95.0	89.3	84.3	79.8	64.2	53.5	40.1	32.1	26.8	22.9	20.1	17.8	16.1	14.6	12.8	
2	92.5	85.1	78.8	73.4	58.8	49.0	36.7	29.4	24.5	21.0	18.4	16.3	14.7	13.4	11.8	
3	90.8	82.2	75.1	69.1	56.9	47.5	35.6	28.5	23.7	20.3	17.8	15.8	14.2	12.9	11.4	
4	89.3	79.8	72.2	65.8	56.0	46.7	35.0	28.0	23.3	20.0	17.5	15.6	14.0	12.7	11.2	
5	88.1	77.9	69.8	63.2	55.5	46.2	34.7	27.7	23.1	19.8	17.3	15.4	13.9	-	-	
10	83.5	71.1	61.8	54.7	49.1	44.5	34.0	27.2	-	-	-	-	-	-	-	
15	80.4	66.6	56.8	49.6	44.0	39.5	-	-	-	-	-	-	-	-	-	
30	74.0	58.3	48.1	-	-	-	-	-	-	-	-	-	-	-	-	80
1	94.0	87.7	82.2	63.6	50.9	42.4	31.8	25.5	21.2	18.2	15.9	14.1	12.7	11.6	10.2	
2	91.3	83.1	75.7	56.8	45.4	37.9	28.4	22.7	18.9	16.2	14.2	12.6	11.4	10.3	9.1	
3	89.3	79.8	72.2	54.5	43.6	36.3	27.3	21.8	18.2	15.6	13.6	12.1	10.9	9.9	8.7	
4	87.7	77.3	69.1	53.4	42.7	35.6	26.7	21.4	17.8	15.3	13.3	11.9	10.7	9.7	8.5	
5	86.3	75.2	66.6	52.7	42.2	35.1	26.3	21.1	17.6	15.1	13.2	11.7	10.5	-	-	
10	81.3	67.9	58.3	51.1	41.1	34.2	25.7	20.5	-	-	-	-	-	-	-	
15	77.9	63.2	53.2	46.0	40.4	33.9	-	-	-	-	-	-	-	-	-	
30	71.1	54.7	44.5	-	-	-	-	-	-	-	-	-	-	-	-	100
1	93.2	86.3	71.5	53.7	42.9	35.8	26.8	21.5	17.9	15.3	13.4	11.9	10.7	9.8	8.6	
2	90.2	81.3	62.4	46.8	37.4	31.2	23.4	18.7	15.6	13.4	11.7	10.4	9.4	8.5	7.5	
3	88.1	77.9	59.4	44.5	35.6	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.1	
4	86.3	75.2	57.9	43.4	34.7	28.9	21.7	17.4	14.5	12.4	10.8	9.6	8.7	7.9	6.9	
5	84.8	73.0	56.9	42.7	34.2	28.5	21.4	17.1	14.2	12.2	10.7	9.5	8.5	-	-	
10	79.5	65.4	55.1	41.3	33.1	27.6	20.7	16.5	-	-	-	-	-	-	-	
15	75.8	60.5	50.4	40.9	32.7	27.3	-	-	-	-	-	-	-	-	-	
30	68.6	51.9	41.7	-	-	-	-	-	-	-	-	-	-	-	-	150
1	91.6	80.7	53.8	40.3	32.3	26.9	20.2	16.1	13.4	11.5	10.1	9.0	8.1	7.3	6.5	
2	88.1	67.0	44.6	33.5	26.8	22.3	16.7	13.4	11.2	9.6	8.4	7.4	6.7	6.1	5.4	
3	85.6	62.4	41.6	31.2	25.0	20.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.7	5.0	
4	83.5	60.1	40.1	30.1	24.1	20.0	15.0	12.0	10.0	8.6	7.5	6.7	6.0	5.5	4.8	
5	81.8	58.8	39.2	29.4	23.5	19.6	14.7	11.8	9.8	8.4	7.3	6.5	5.9	-	-	
10	75.8	56.0	37.4	28.0	22.4	18.7	14.0	11.2	-	-	-	-	-	-	-	
15	71.7	55.1	36.7	27.6	22.0	18.4	-	-	-	-	-	-	-	-	-	
30	64.0	46.8	36.1	-	-	-	-	-	-	-	-	-	-	-	-	300
1	88.1	54.0	36.0	27.0	21.6	18.0	13.5	10.8	9.0	7.7	6.8	6.0	5.4	4.9	4.3	
2	80.7	40.3	26.9	20.2	16.1	13.4	10.1	8.1	6.7	5.8	5.0	4.5	4.0	3.7	3.2	
3	71.5	35.8	23.8	17.9	14.3	11.9	8.9	7.2	6.0	5.1	4.5	4.0	3.6	3.3	2.9	
4	67.0	33.5	22.3	16.7	13.4	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.3	3.0	2.7	
5	64.2	32.1	21.4	16.1	12.8	10.7	8.0	6.4	5.4	4.6	4.0	3.6	3.2	-	-	
10	58.8	29.4	19.6	14.7	11.8	9.8	7.3	5.9	-	-	-	-	-	-	-	
15	56.9	28.5	19.0	14.2	11.4	9.5	-	-	-	-	-	-	-	-	-	
30	55.1	27.6	18.4	-	-	-	-	-	-	-	-	-	-	-	-	

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

■ **1.2 - 3 Ø - (± 0.2 A) - IEC 60613 (1989) (2010)**

