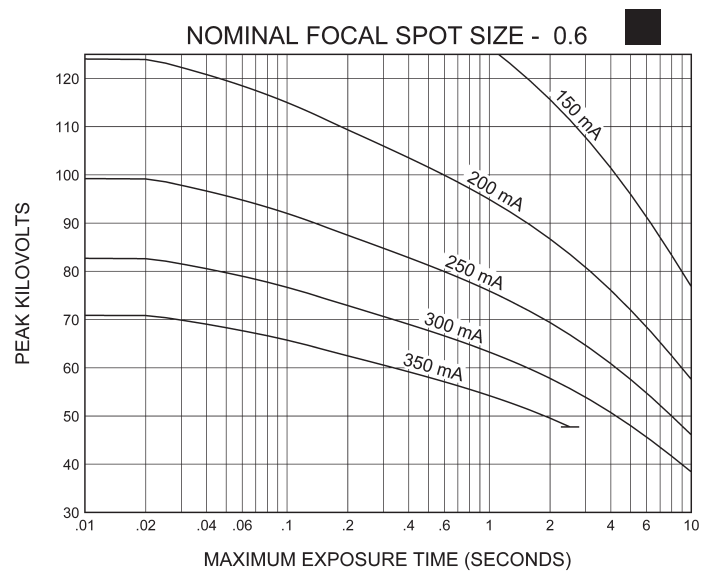
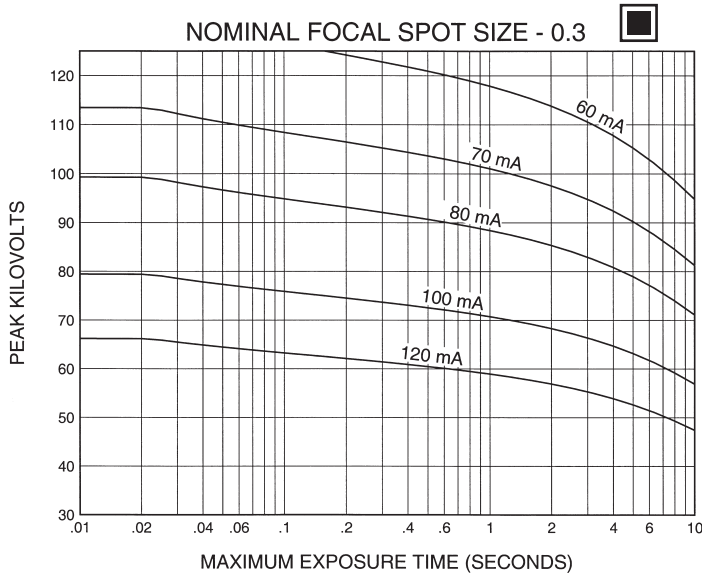
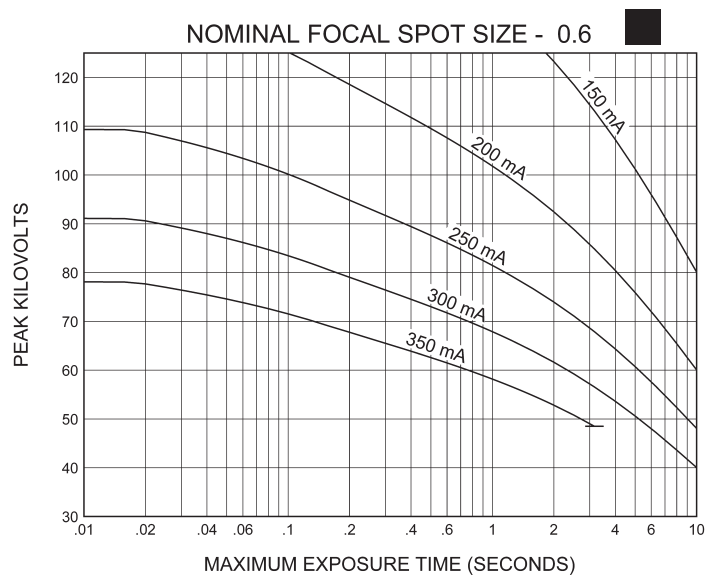
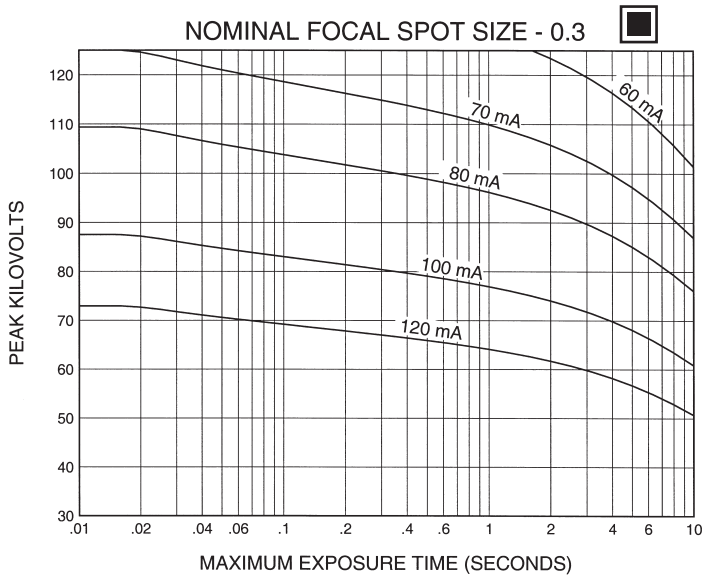


3 Ø Constant Potential

50 Hz - 2,850 RPM



60 Hz - 3,450 RPM



For 1Ø and other applications, please consult the manufacturer.

Pour 1Ø et autre applications, prière de consulter le Fabricant.

Für 1Ø und andere Anwendungen, konsultieren mit dem Fabrikant, bitte.

Para 1Ø y otras aplicaciones, por favor consulte a la Compañía.

Nominal anode input power for the anode heat content 40%. IEC 60613

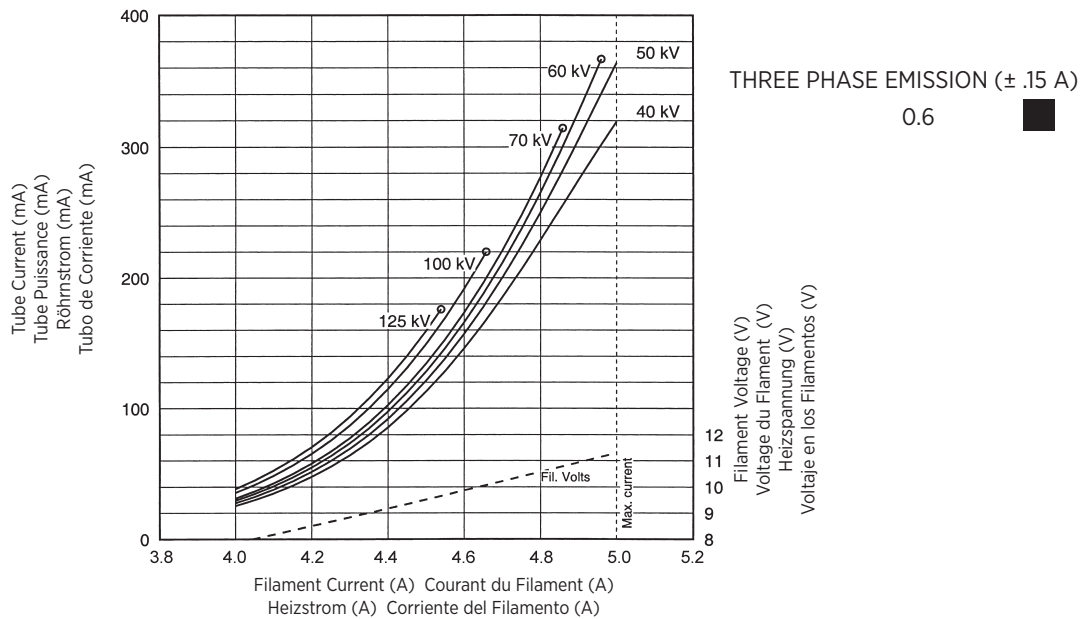
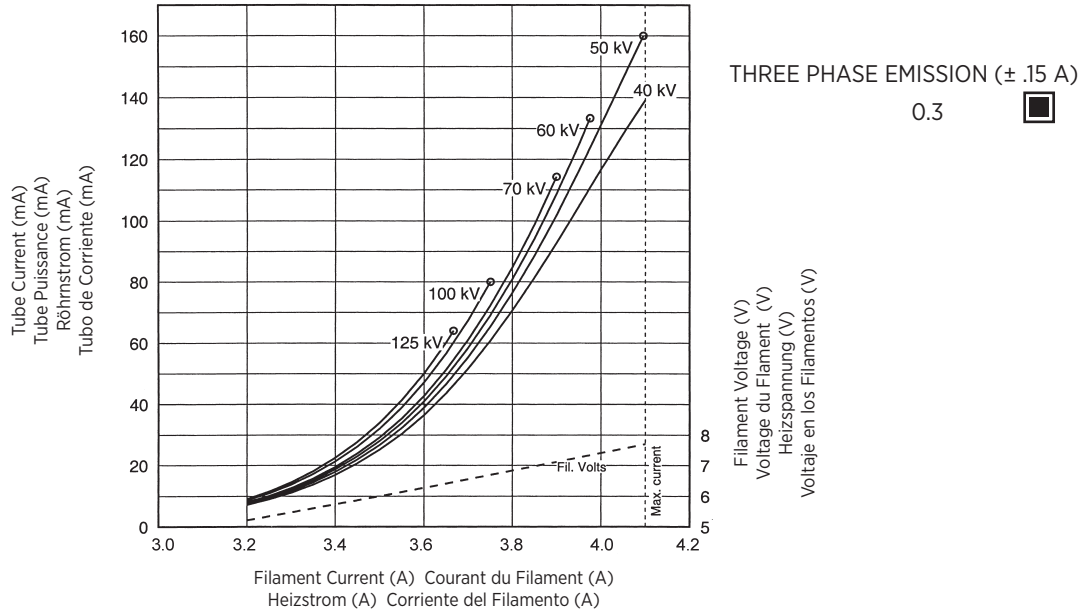
Puissance calorifique nominale de l'anode: 40%, CEI 60613

Thermische Anodenbezugsleistung bei einer Wärmespeicherung von 40%. IEC 60613

Aproximadamente el poder de penetración para obtener un almacenaje de calor del anodo de 40%. IEC 60613

3 Ø Constant Potential

Filament Emission Charts IEC 60613
 Abaques d'Émissions des Filaments CEI 60613
 Glühfadenemissionsdiagramm IEC 60613
 Curvas de Emisión de los Filamentos IEC 60613



- Note: When using these emission curves for trial exposures, refer to the power rating curves shown for maximum kV, tube emission, filament current, exposure time, and target speed.
- Remarque: Lors de l'utilisation de ces abaques pour des expositions d'essai, référez-vous aux courbes maximales de kV, d'émission du filament, de temps d'exposition et de vitesse de rotation.
- Anmerkung: Wenn Sie diese Emissionskurven für Testaufnahmen verwenden, beziehen Sie sich hierbei auf die entsprechenden Nennleistungskurven für max. kV-Werte, Röhrenemission, Heizström, und Anodendrehzahl.
- Nota: Si utiliza estas curvas de emisión para exposiciones de prueba, refiérase a las curvas de gradación de potencia para el máximo de kV, tubo de emisión, corriente en los filamentos, tiempo de exposición, y a las curvas de velocidad del objetivo.

CINERADIOGRAPHIC RATINGS

HOW TO USE CINERADIOGRAPHIC CHARTS

General: With the Cineradiographic rating chart we can determine the maximum allowable kW of the Cine pulse, or with a given kW determine maximum time in seconds the Cine run can progress.

The Most common way of using the charts is to determine maximum time of any expected Cine run and maximum duty factor. With a known duty factor and Cine run time kW can easily be determined.

Definition of Terms

Time in seconds: Total time of one Cine run, usually 5 to 12 seconds.

Duty Factor in Percent (DF%): Actual time during one second the x-ray tube is producing x-rays. If we select a 5 msec pulse width and 30 exposures per second the x-ray tube will be producing x-rays for a total of 150 msec each second or 15% of the time. The higher the DF number, the more load placed on the x-ray tube.

Peak Pulse Power: Peak energy in watts of any one Cine Pulse. Can be any combination of kV and mA allowed by Radiographic and Filament Emission curves.

Example: 80 kV at 400 mA equals
 $80,000 \text{ V} \times 0.4 \text{ A} = 32,000 \text{ W}$ or 32 kW

USING THE CINE RATING CHARTS:

RAD-99B 60 Hz 3 Phase 0.6 Focal Spot

Example: Determine maximum kW allowed with the following known factors:
 Maximum Pulse Width 5 msec
 Exposures per Second 30
 Maximum Cine Run Time10 seconds

Calculate Duty Factor: (DF%)

$$DF\% = \frac{\text{Pulse Width (mSec)} \times \text{Frames per Second}}{10}$$

$$DF\% = \frac{5 \text{ msec} \times 30 \text{ exp/sec}}{10} = \frac{150}{10} = 15\%$$

Refer to Rating Chart RAD-99B 60 Hz 3 Phase 0.6 Focal Spot:

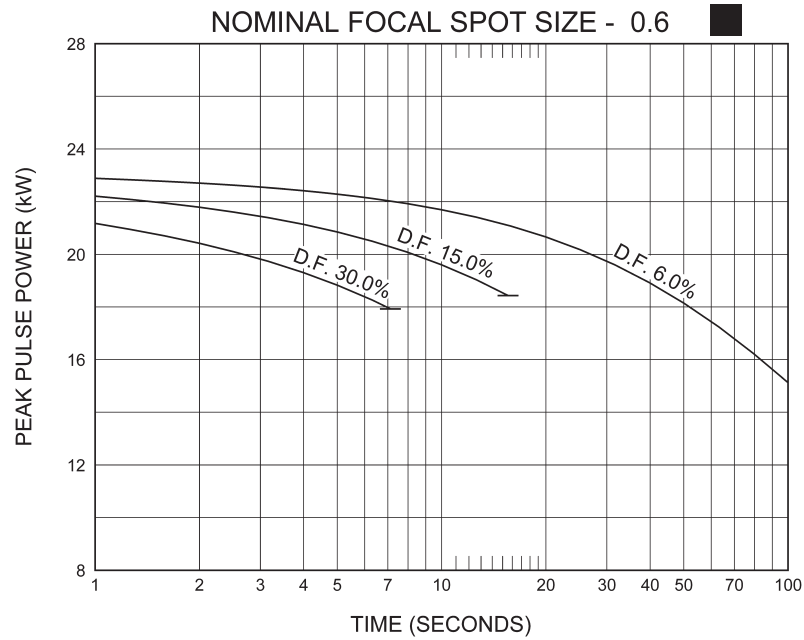
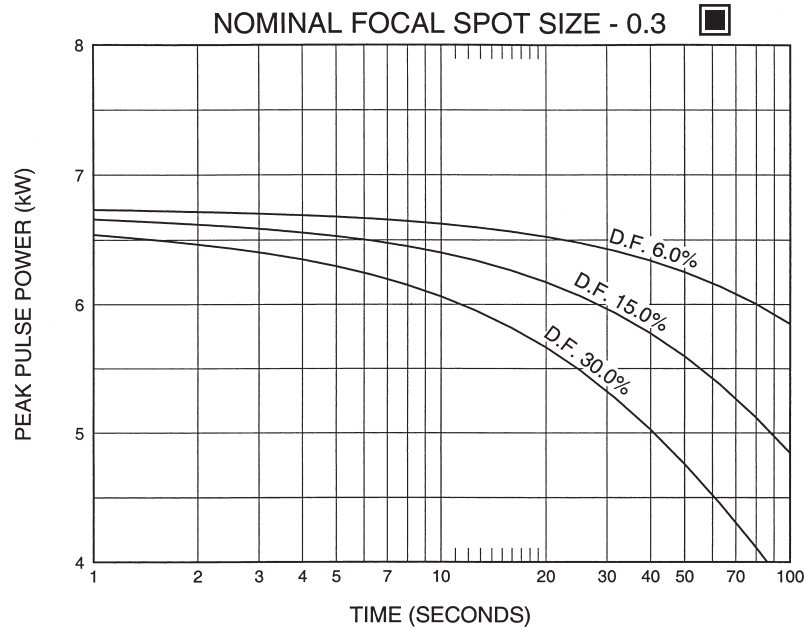
At bottom of chart find 10 second line. Move vertically to intersection with 15% DF curve. Make a horizontal reference to left side of rating chart and note kW rating of 19.5 kW.

kW = kV x mA. The kW of the exposure can be any combination of mA and kV allowed by the Radiographic and Filament Emission Charts.

The Cine rating charts are usable to 100% anode heat storage. Exceeding 100% anode heat storage will cause anode track erosion with high risk of tube destruction.

3 Ø Constant Potential

50/60 Hz



Nominal anode input power for the anode heat content 70%. IEC 60613

Puissance calorifique nominale de l'anode: 70%, CEI 60613

Thermische Anodenbezugsleistung bei einer Wärmespeicherung von 70%. IEC 60613

Aproximadamente el poder de penetracion para obtener un almacenaje de calor del anodo de 70%. IEC 60613

ANODE HEATING AND COOLING CURVES

