

Note: Document originally drafted in the English language.
注释：文件最初用英语起草。

Product Description

The M-113T is a 3.0" (77 mm) 49 kV, 222 kJ (300 kHU) maximum anode heat content, rotating anode insert. This insert is specifically designed for use in Mammography systems. The insert features a 10° and 16° biangular molybdenum alloy target and is available with the following nominal focal spots:

0.1 (10°) - 0.3 (16°)
IEC 60336

Loading Factor for slit focal:

Small - 25 kV, 30 mA
Large - 25 kV, 100 mA

Continuous Anode Input

Power: 714 Watts

Nominal Anode Input Power

Small - 2.5 kW IEC 60613
Large - 9.9 kW IEC 60613

For the equivalent anode input power of 60 Watts

产品说明

M-113T 是一款具有 3.0" (77 mm) 靶盘, 49 kV, 222 kJ (300 kHU)最大阳极热容量的旋转阳极X线管芯。此管芯经专门设计, 适用于乳腺放射成像系统。该管芯的靶盘结构为 10°和16°靶角, 铼钨钼合金靶材, 并可与下列标称焦点一起使用:

0.1 (10°) - 0.3 (16°)
IEC 60336

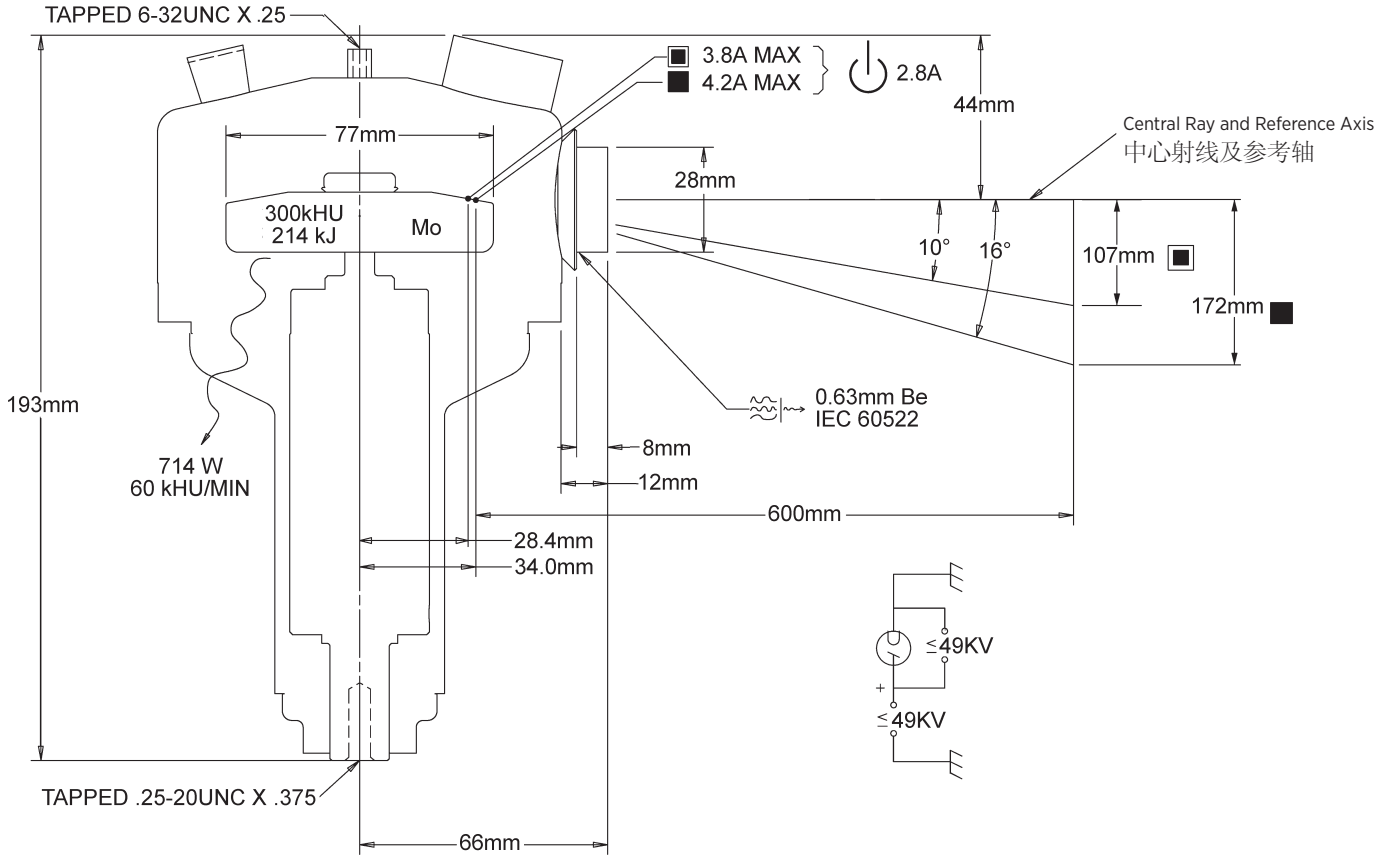
狭缝焦点测试条件:

小焦点 - 25 kV, 30 mA
大焦点 - 25 kV, 100 mA

标称阳极输入功率:

小焦点 - 2.5 kW IEC 60613
大焦点 - 9.9 kW IEC 60613
适用于60瓦的等效阳极输入功率

Dimensions are for Reference only
尺寸仅供参考



■ Small - White
小焦点 - 白

■ Large - Black
大焦点 - 黑

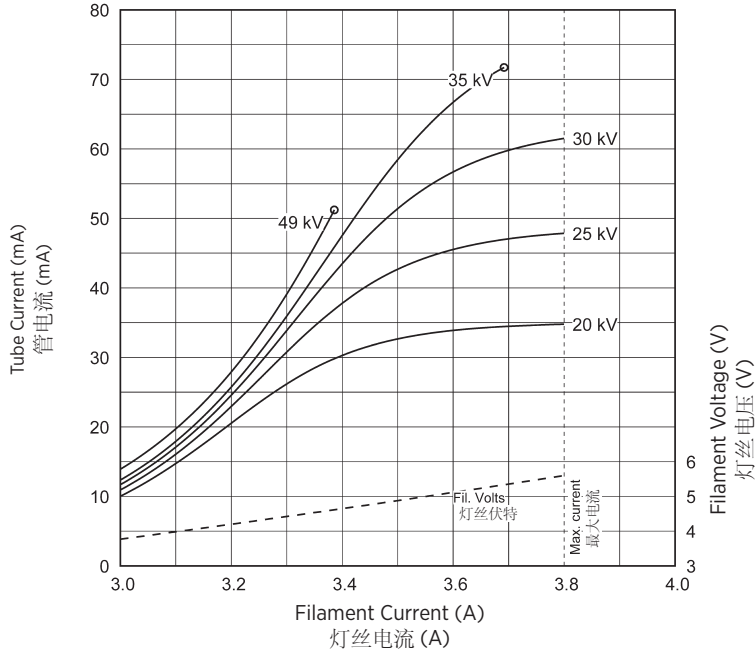
⏻ Stand - By
备用


⏏ Frame or Chasis
框架或底盘

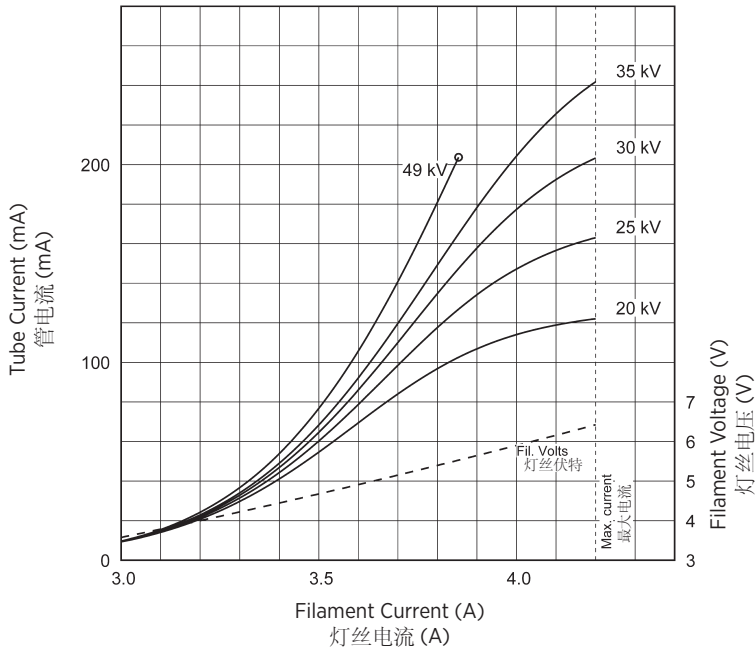
⊕ X-Ray Tube
X 射线管


⚡ Radiation Filter or Filtration
辐射过滤器或过滤

3∅ 全波



THREE PHASE EMISSION (± .15 A)
三相发射 (± .15 A)
0.1 



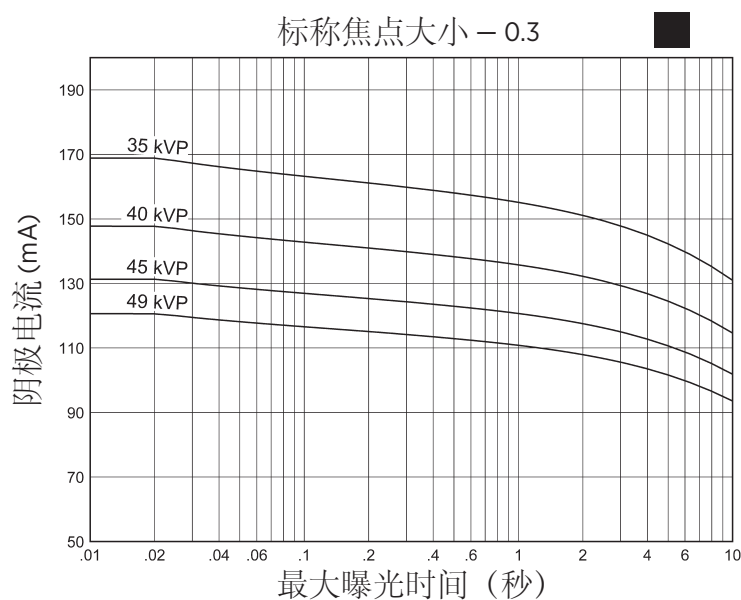
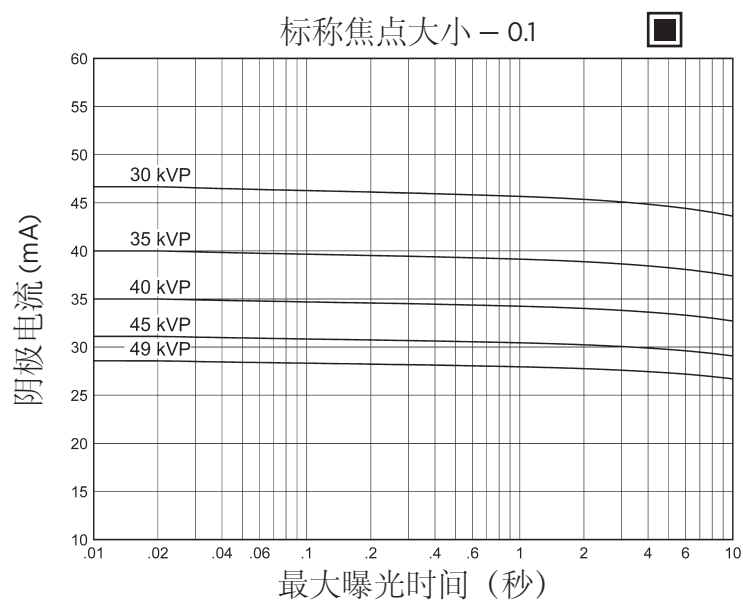
THREE PHASE EMISSION (± .15 A)
三相发射 (± .15 A)
0.3 

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.

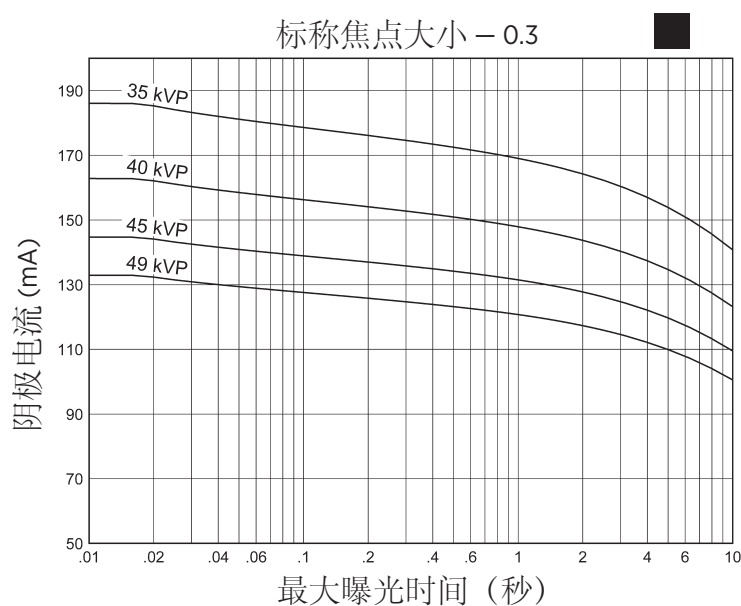
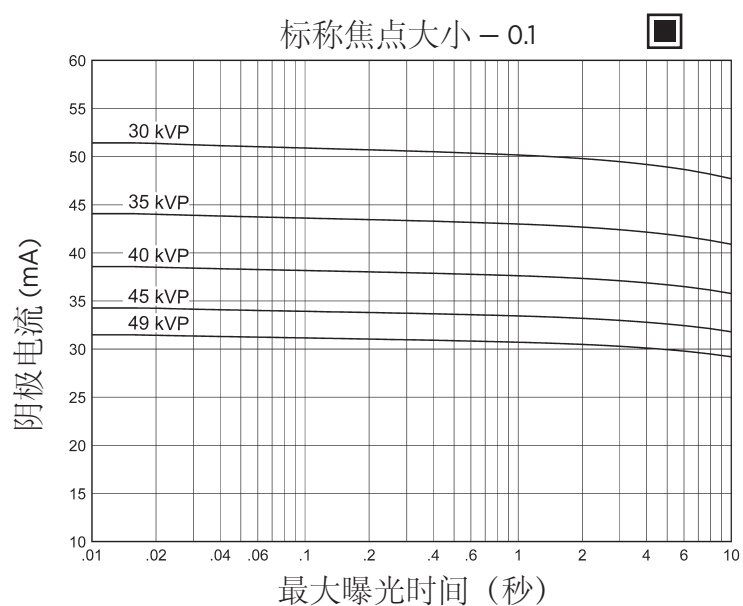
注释:
当为试验曝光使用这些辐射曲线时, 请同时参考额定功率曲线中与最大管电压、管电流、灯丝电流、曝光时间和阳极靶转速相关的限制条件。

3 Ø 恒定电压 

50 Hz



60 Hz



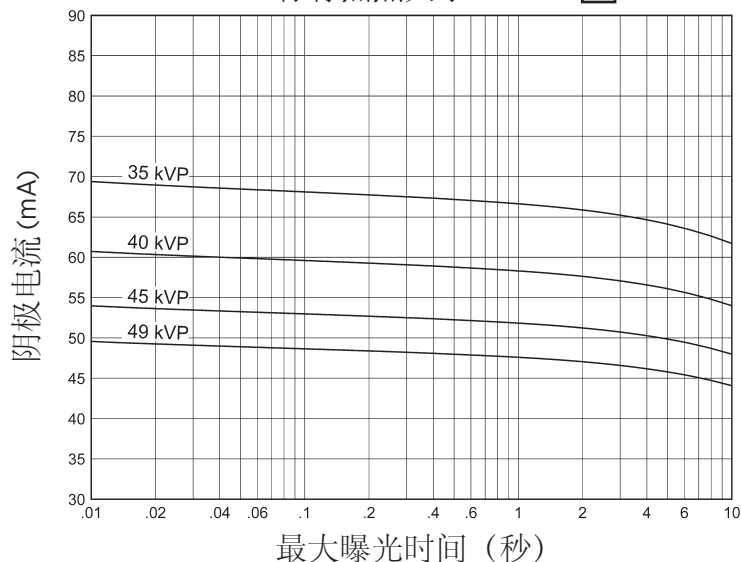
Nominal anode input power for the anode heat content 40%. IEC 60613

注释
 额定值表反映最大管性能。管的工作状况最终受系统软件的限制。

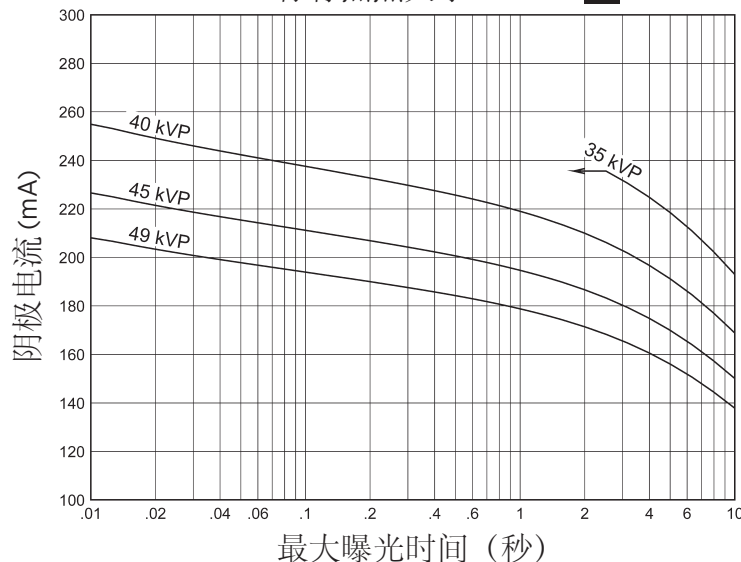
3 Ø 恒定电压 ≡

150 Hz

标称焦点大小 - 0.1 

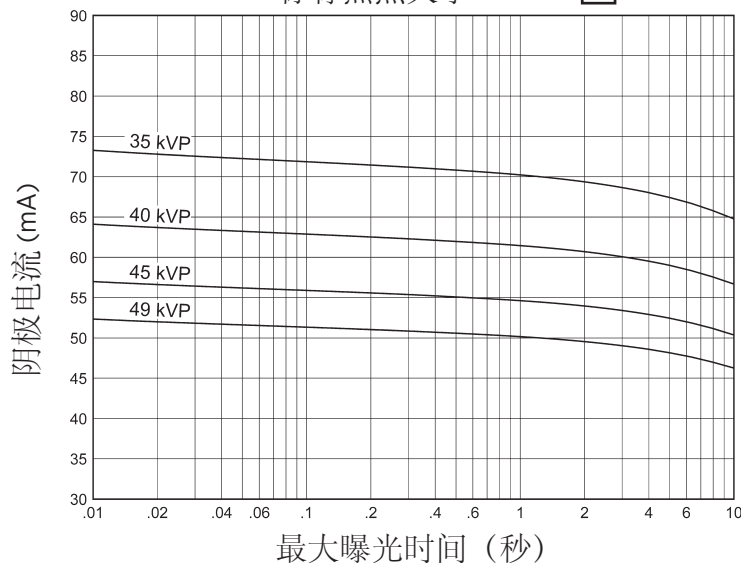


标称焦点大小 - 0.3 

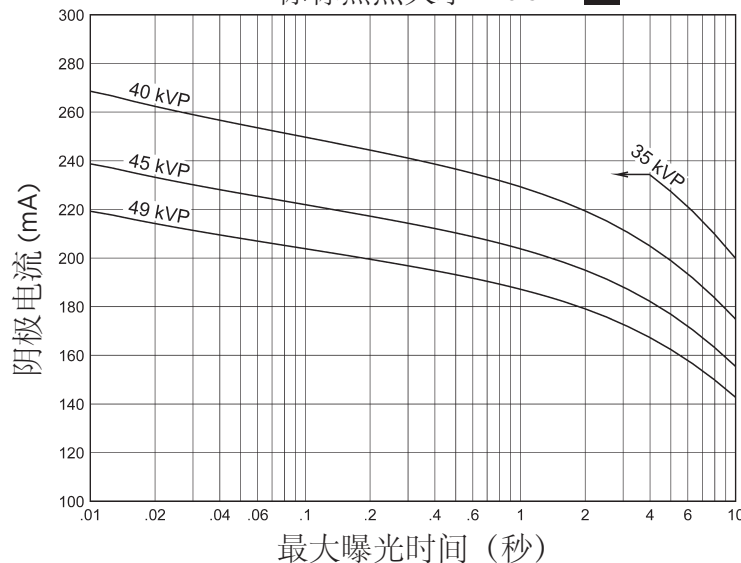


180 Hz

标称焦点大小 - 0.1 



标称焦点大小 - 0.3 



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

注释
 额定值表反映最大管性能。管的工作状况最终受系统软件的限制。

VOLUMETRIC/HELICAL SCAN RATING CHART

M-113T

FOCAL SPOT: 0.1

10 Degrees 3 PHASE 8500 RPM

Volume scan time (seconds)	Maximum allowed tube current (mA) as a function of the following starting heat storage and tube voltages								
	Starting heat storage = 20 %			Starting heat storage = 40 %			Starting heat storage = 60 %		
	25 kV	30 kV	35 kV	25 kV	30 kV	35 kV	25 kV	30 kV	35 kV
1	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
2	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
3	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
4	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
5	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
6	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
8	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
10	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
15	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
20	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40

NOTES

- (kW) of scan equals mA x kVp ÷ 1000
For example – 70 kV x 300 mA = 21 kW
- Limits are based on maximum track rating except for the following codes:
(a) – limited by available heat storage
(b) – limited by window heating
(c) – limited by filament emission

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VOLUMETRIC/HELICAL SCAN RATING CHART

M-113T

FOCAL SPOT: 0.1

10 Degrees 3 PHASE 9600 RPM

Volume scan time (seconds)	Maximum allowed tube current (mA) as a function of the following starting heat storage and tube voltages								
	Starting heat storage = 20 %			Starting heat storage = 40 %			Starting heat storage = 60 %		
	25 kV	30 kV	35 kV	25 kV	30 kV	35 kV	25 kV	30 kV	35 kV
1	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
2	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
3	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
4	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
5	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
6	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
8	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
10	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
15	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40
20	50 (c)	50	40	50 (c)	50	40	50 (c)	50	40

NOTES

- (kW) of scan equals mA x kVp ÷ 1000
For example – 70 kV x 300 mA = 21 kW
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(a) – limited by available heat storage
(b) – limited by window heating
(c) – limited by filament emission

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Anode Heating and Cooling Curves
阳极加热与冷却曲线

