



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

Product Description

The Leo housing is designed for Varex Imaging rotating anode inserts having 71 mm (2.8 inches) or 80 mm (3 inches) diameter targets.

IEC Classification Class 1

Weight, Approximate:
Housing & Tube 17.4 kg (38.5 lbs)

Mounting Port plate or Trunnion
Metric Housing - M6-1 screws

产品说明

Leo 管套是为具有 71 mm (2.8 in.) 或 80 mm (3 in.) 直径靶盘的万睿视影像旋转阳极管芯而设计的。

IEC 分级 1 类

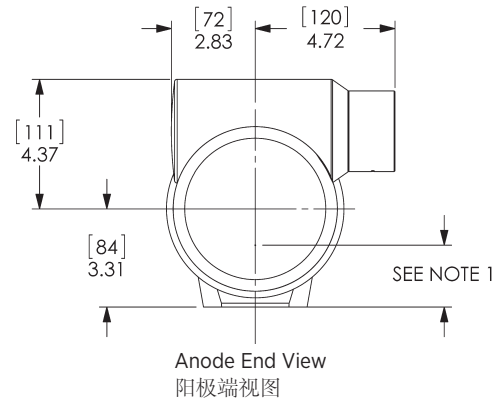
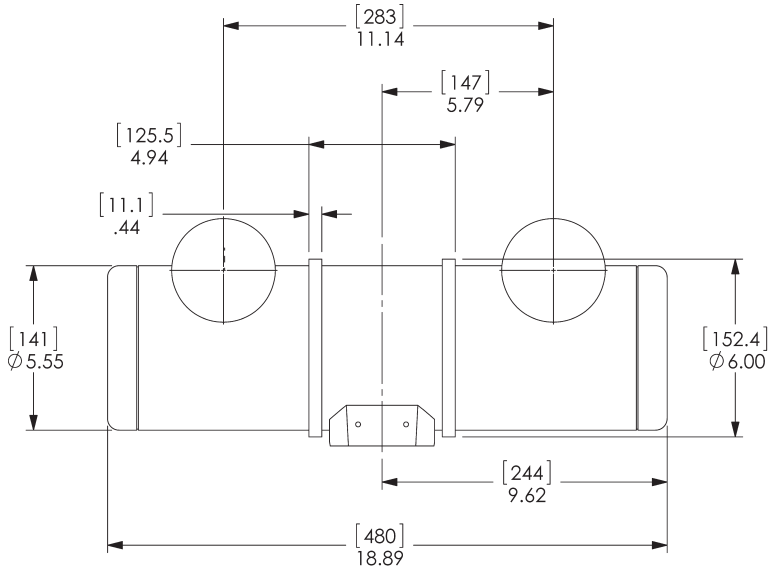
近似重量：
管与管套： 17.4 kg (38.5 lbs)

安装 端口盘或管箍
米制管套 - M6-1 螺钉

Product Description	
Maximum Peak Voltage	150 kV
Cathode to Ground	75 kV
Anode to Ground	75 kV
Maximum X-Ray Tube Assembly Heat Content	900 kJ (1,250 kHU)
Nominal Continuous Input Power (maximum housing temperature 78°C)	200 W (278 HU/sec) IEC 60613:2010 @ sea Level
X-Ray tube assembly cooling is provided by ambient air flow.	
X-Ray Tube Assembly (Insert and Housing) Permanent Filtration ... 0.7mm Al/75kV IEC 60522/1999	
Loading Factors for Leakage Radiation 150 kV, 2.0 mA	
Temperature Limits for Storage and Transport	-20°C to +75°C
Humidity	10% to 90%
Atmospheric Pressure Range	70 kPa to 106 kPa
Thermal Switch	Normally Closed Contact Rating - 10A @ 240Vac
Open	80°C ±3.0°C (176°F ±6°F)
Federal Standard High Voltage Receptacles	(Complies to IEC 60526) NEMA Standard XR7-1979 (R1984, 1990)
X-Ray Tube Assembly (Complies to) IEC 60601-2-28	

产品说明	
最大峰值电压	150 kV
阴极到地	75 kV
阳极到地	75 kV
X 射线管组件最大热含量	900 kJ (1,250 kHU)
标称持续输入功率 (最大管套温度 78°C)	200 W (278 HU/sec) IEC 60613:2010 @ 海平面
X射线管组件通过其周围空气流进行冷却。	
X 射线管组件 (管芯和管套) 固有滤过	
	0.7mm Al/75kV IEC 60522/1999
泄漏辐射测试条件	
	150 kV, 2.0 mA
存储与运输温度限值:	-20°C 到 +75°C
湿度	10% 到 90%
大气压范围	70 kPa 到 106 kPa
热控开关	正常闭合 触点额定值 - 10A @ 240Vac
打开	80°C ±3°C (176°F ±6°F)
高压插座缆绳	符合 IEC 60526 NEMA 标准 XR7-1979 (R1984, 1990)
X 射线管组件 (符合) IEC 60601-2-28	

Dimensions are for Reference only
维度是供仅参考

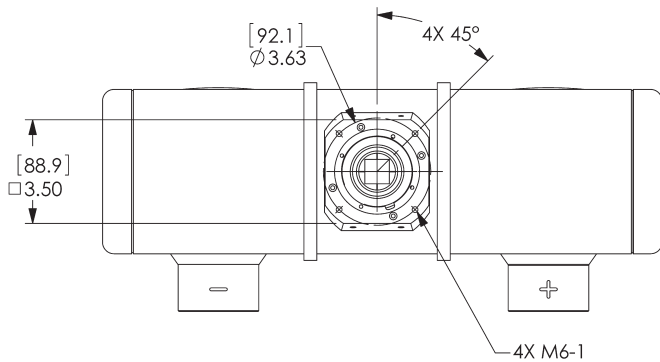


Note 1

Focal Spot to Port Distance
80 mm Anode (RAD-14 & 74) [53.5 ±1.0] 2.11 ±0.040
71 mm Anode (RAD-12) [56.5 ±1.0] 2.23 ±0.040

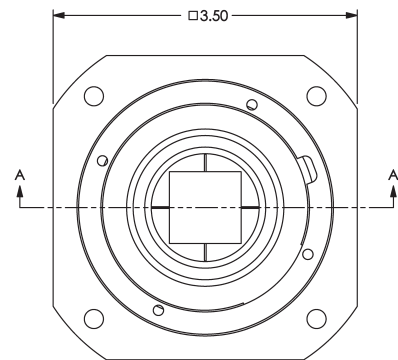
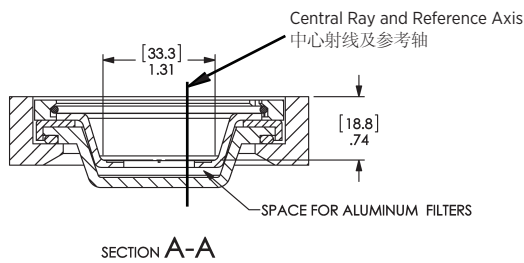
注释 1

焦点到端口距离
80 mm 阳极 (RAD-14 & 74) [53.0 ±1.0] 2.10 ±0.040
71 mm 阳极 (RAD-12) [56.0 ±1.0] 2.20 ±0.040

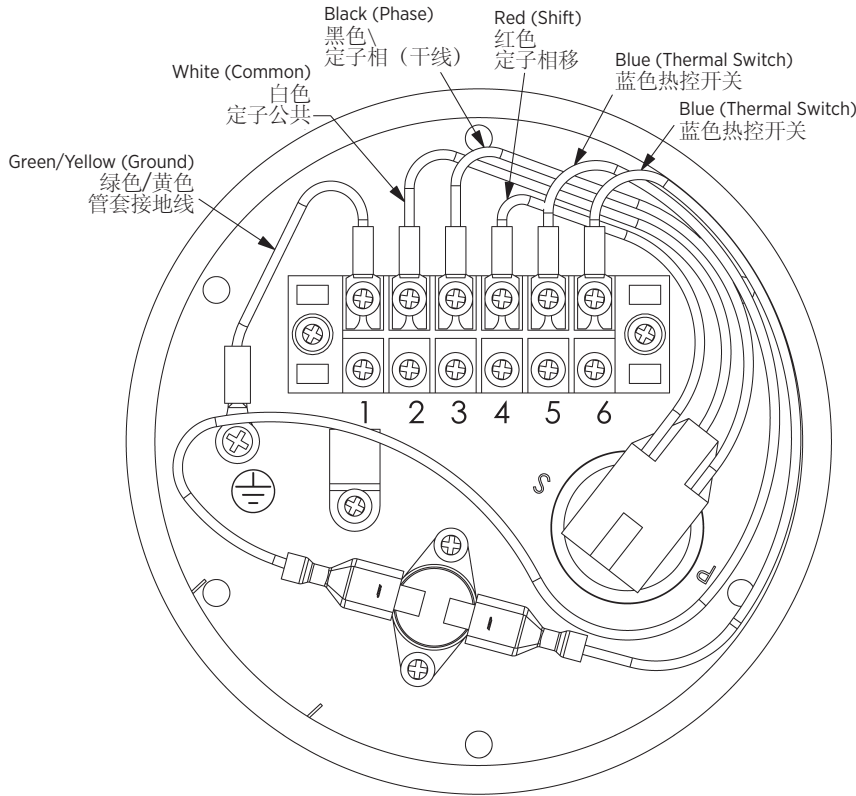


Note: Window aperture is .827" (21mm) square
注释: 窗口开口是.827" (21mm)正方形

Cross Section of Port
端口的横截面



Stator Ratings and Characteristics
定子额定值及特征



Wire Color 导线颜色	Description 描述
1 Green/Yellow 绿色/黄色	Housing Ground 管套接地线
2 White 白色	Common 定子公共
3 Black 黑色	Stator Phase 定子相 (干线)
4 Red 红色	Stator Shift 定子相移
5 Blue 蓝色	Thermal Switch 热控开关
6 Blue 蓝色	Thermal Switch 热控开关

Stator Motor Ratings: 定子电机额定值:	Frequency (Hz) 频率 (赫兹)	Volts 伏特	White Lead Amperes (Typical) 白色导线电流 (典型)
*Operating Voltage (Run) *工作电压 (运行)	50/60 Hz	50 - 60*	1.4 - 2.1
		120	2.9 - 4.1
		220	4.7 - 6.7
	150/180 Hz	90*	0.9 - 1.3
		220	2.2 - 3.3
		290	3.0 - 4.5
		320	3.4 - 5.1

Stator Drive Frequency 定子驱动频率	RPM
50 Hz	2800 - 3000
60 Hz	3400 - 3600
150 Hz	8500 - 9000
180 Hz	9500 - 10,800

"R" Stators	"R" 定子	Nominal / 标称	Acceptable / 可接受
Black - White	黑色 - 白色	20 Ω	18 - 22
White - Red	白色 - 红色	50 Ω	45 - 55
Black - Red	黑色 - 红色	70 Ω	63 - 77
180 Hz Cap	180 Hz Cap	6 μF	
150 Hz Cap	150 Hz Cap	9 μF	
60 Hz Cap	60 Hz Cap	30 μF	
50 Hz Cap	50Hz Cap	43 μF	

Stator Cord:

A six wire shield-grounded stator cord should be connected from the stator terminal to the motor control. All listed voltage and amperage measurements should be taken at the housing end.

If the stator cord is not provided, the cord used must be UL listed or a UL recognized component for all products used in the USA. Outside the USA, the cord used must comply with all applicable regulatory and statutory requirements for electrical and safety. The cord must have the following characteristics: six conductor, 18AWG (0.9mm²) Cu, rated 600V, 90°C minimum, shielded cable with PVC jacket 0.032 inch (0.081mm) thick minimum. Lead terminations are provided and must be used with wire that matches the above description.

Stator Power:

Time to full speed of the anode is a function of the power rating of the “starter” and the weight / diameter of the anode. All Varex Imaging stator types are rated for regular speed and high speed starters. Time to full speed for 71mm (2.8 inch) and 80mm (3.0 inch) anode series tubes is between 1.3 and 2.0 seconds.

Immediately following high speed anode rotation, the rotor speed must be reduced to 4000 r/min or less within 10 seconds using a suitable dynamic braking device.

No more than two high speed starts per minute are permissible. The starting voltage must never exceed 400 volts rms.

定子电缆:

六导线接地屏蔽定子电缆应该从定子端连接到电机控制装置。所列的所有电压和电流的值必须在管套端测。

所用的电缆必须是 UL 所列或经 UL 验证适用于美国所用全部产品的组件。如果不在美国，则所用的电缆必须符合所有适用的电气和安全法规要求。此电缆必须拥有下列特性：六根导线，18 AWG (0.9mm²) 铜制，额定电压 600V，最低温度90°C，电缆上覆有最低厚度为 0.032 in. (0.081 mm) 的 PVC 护套。提供了导线端子，并且必须将其与符合上述说明的电线结合使用。

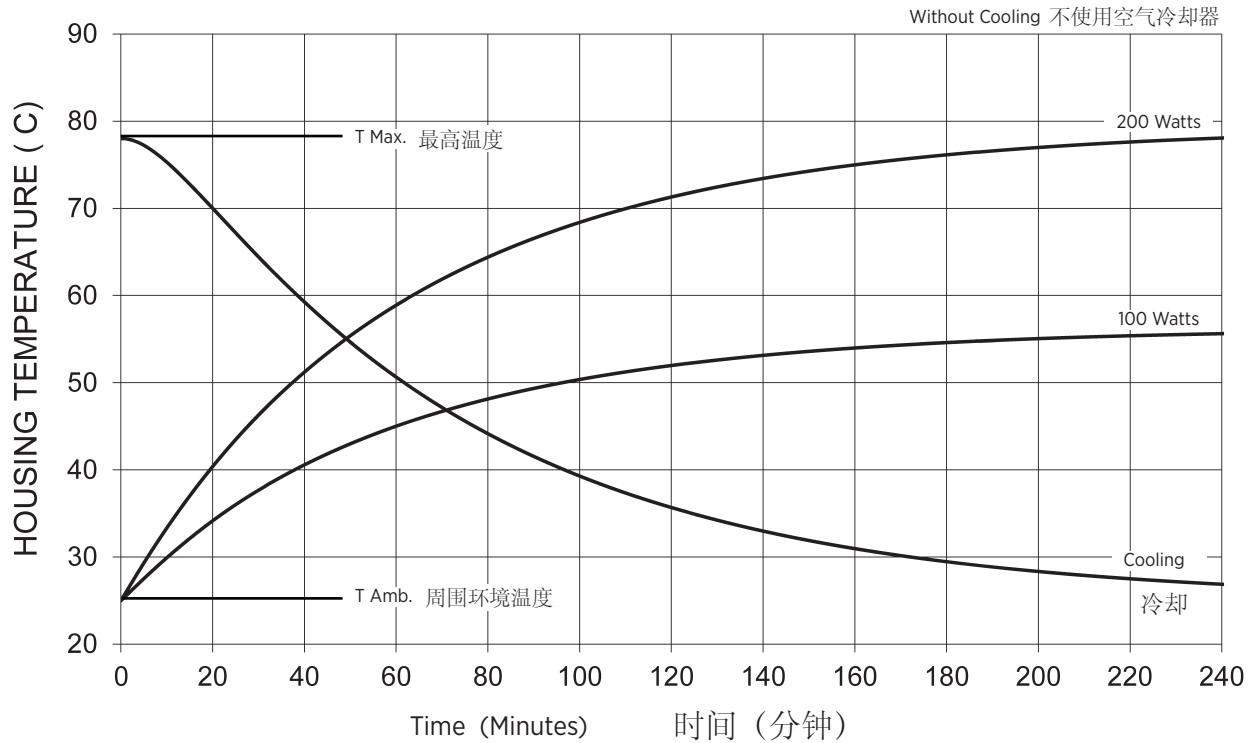
定子功率:

阳极达到全速的时间是“启动器”的额定功率以及阳极重量和直径的函数。瓦里安所有型号的定子都按常速和高速启动器进行了检定。71 mm (2.8 in.) 和 80 mm (3.0 in.) 阳极系列管达到全速的时间在 1.3 到 2.0 秒之间。

高速阳极旋转后，需使用合适的动态制动装置在10秒内将转子的速度下降到4000转/分钟或更低

每分钟不允许有两次以上的高速启动。启动电压决不能高于400 伏 rms。

X-Ray Tube Assembly Heating and Cooling Curve
X 射线管汇编热化/冷却的曲线



Note:
Heat inputs into housing include tube power, filament power, and stator power. Heating curves based on no restrictions of natural convection around tube housing assembly.

注释:
向管套的热量输入包括管功率、灯丝功率和定子功率。加热曲线以管套组件周围无自然对流的限制为根据。