

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

Product Description

The MCS-8064 is a 9.4" (240 mm) 140 kV, 5.7 MJ (8.0 MHU) maximum anode heat content, rotating anode insert. This insert is specifically designed for GE CT Scanners. The insert features a 7° tungsten-rhenium facing on molybdenum with a graphite backed target and is available with the following nominal focal spots:

0.9 x 0.7
1.2 x 1.2

Maximum Anode Cooling Rate:
21,800 W (30,520 HU/sec)

Continuous Anode Input Power:
8,000 W (11,200 HU/sec)

**Nominal Anode Input Power:
Load Time 1 Second**
Small - 47 kW IEC 60613:2010
Large - 100 kW IEC 60613:2010

Nominal CT Anode Input Power:
Small - 47 kW IEC 60613:2010
Large - 96 kW IEC 60613:2010

Nominal CT Scan Power Index:
Small - 40 kW IEC 60613:2010
Large - 81 kW IEC 60613:2010

Reference Axis:
Perpendicular to port face.

This insert is intended for use in the Varex Imaging B-680H housing.

产品说明

MCS-8064 是一款具有 9.4" (240 mm) 靶盘, 140 kV, 5.7 MJ (8.0 MHU) 最大阳极热容量的旋转阳极 X 线管芯。该管芯专门针对 GE CT 扫描仪而设计。该管芯的靶盘结构为 7° 靶角, 铌钨钼合金靶材, 石墨基底, 可提供下列尺寸的标称焦点:

0.9 x 0.7
1.2 x 1.2

最大阳极冷却速率:
21,800 W (30,520 HU/sec)

最大连续阳极热耗:
8,000 W (11,200 HU/sec)

标称阳极输入功率:
加载时间1秒
小焦点 - 47 kW IEC 60613:2010
大焦点 - 100 kW IEC 60613:2010

标称CT阳极输入功率
小焦点 - 47 kW IEC 60613:2010
大焦点 - 96 kW IEC 60613:2010

标称 CT 扫描功率指数:
小焦点 - 40 kW IEC 60613:2010
大焦点 - 81 kW IEC 60613:2010

参考轴:
垂直于窗口面。

该管芯适用于 万睿视影像 B-680H 管套。

Single Load Rating (Reference IEC 60613 and 21 CFR 1020.30 (h)(2)(iii))
 单次加载额定值 (参考 IEC 60613 和 21 CFR 1020.30 (h)(2)(iii))

The single exposures are controlled by system software.

通过系统软件控制单次曝光。

最大 kV 和 mA 限制				
KV	mA Small Focal Spot	VCT Hi Power 配置	VCT 85 kW 配置	无功率选项 (72 kW 基本配置)
		mA Large Focal Spot	mA Large Focal Spot	mA Large Focal Spot
80	300	675	675	600
100	310	770	700	600
120	335	800	700	600
140	335	715	610	515

注意：并非在所有市场中都提供 72 kW 基本配置。

大焦点单次曝光的限制				
Scan Time	140 kV	120 kV	100 kV	80 kV
5	615*	800*	760*	675†
10	575†	790*	760*	675†
20	535†	645†	760*	675†
30	490	560	695†	675†
40	445	510	635†	675†
50	410	485	585	675†
60	385	460	550	675†

† Available only with VCT 85 kW Option installed. Otherwise constrained to the max mA available.

* Available only with VCT 85 kW & VCT Hi Power Options installed. Otherwise constrained to the max mA available.

† 只有安装 VCT 85 kW 选项后才能提供。否则只能使用最大可用 mA。

* 只有安装 VCT 85 kW 和 VCT Hi Power 选项后才能提供。否则只能使用最大可用 mA。

小焦点单次曝光的限制				
Scan Time	140 kV	120 kV	100 kV	80 kV
5	325	335	310	300
10	320	335	310	300
20	305	335	310	300
30	295	335	310	300
40	290	335	310	300

50	280	335	310	300
60	275	335	310	300

Single Load Rating (Reference IEC 60613 and 21 CFR 1020.30 (h)(2)(iii))
 单次加载额定值 (参考 IEC 60613 和 21 CFR 1020.30 (h)(2)(iii))

The serial exposures are controlled by system software and are applicable for repeat every 10 minutes based on 3 hour wait period after tube warm up has completed.

连续曝光由系统软件控制，根据在完成预热后 3 小时的等待期，适用于每 10 分钟重复一次曝光的情况。

大焦点连续曝光的限制				
Scan Time	80 kV	100 kV	120 kV	140 kV
5	675†	770*	745*	635
10	675†	770*	675†	575
20	675†	720	600	510

小焦点单次曝光的限制				
Scan Time	80 kV	100 kV	120 kV	140 kV
5	300	310	335	335
10	300	310	335	335
20	300	310	335	305

† Available only with VCT 85 kW Option installed. Otherwise constrained to the maximum mA available.
 * Available only with VCT 85 kW & VCT Hi Power Options installed. Otherwise constrained to the maximum mA available.

† 只有安装 VCT 85 kW 选件后才能提供。否则只能使用最大可用 mA。
 * 只有安装 VCT 85 kW 和 VCT Hi Power 选件后才能提供。否则只能使用最大可用 mA。

Highest Constant Load at 4s (Reference IEC 60601-2-44 6.8.2)
 在 4 秒时的最高持续加载 (参考 IEC 60601-2-44 6.8.2)

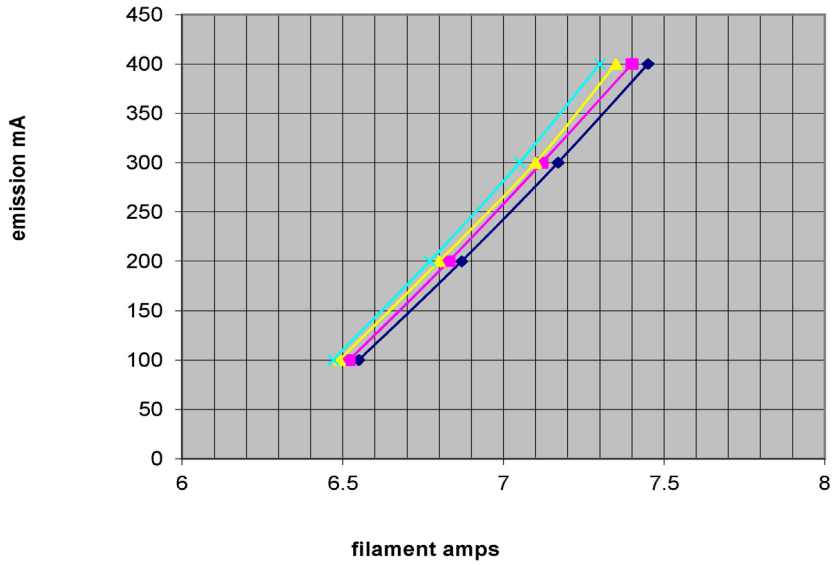
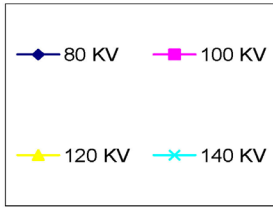
The system can acquire 72 kW at 120 kVp for 4 seconds scan duration. The system can acquire 84 kW at 120 kVp for 4 seconds scan duration if the 85 kW Option is enabled. The system can acquire 96 kW at 120 kVp for 4 seconds scan duration if the 85 kW and Hi Power Options are enabled. The single exposures are controlled by system software.

系统在 72 kW 和 120 kVp 的设置下可实现 4 秒的扫描时间。如果启用了 85 kW 选件，系统在 84 kW 和 120 kVp 的设置下可实现 4 秒的扫描时间。如果启用了 85 kW 和 Hi Power 选件，系统在 96 kW 和 120 kVp 的设置下可实现 4 秒的扫描时间。通过系统软件控制单次曝光。

3 Ø ≡

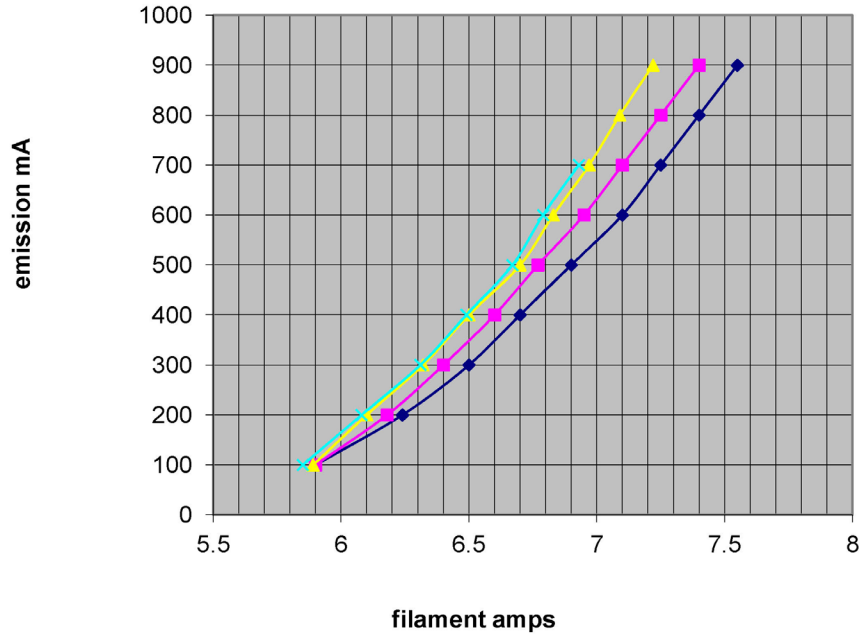
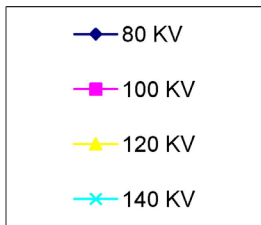
THREE PHASE EMISSION (± .15 A)
 三相发射

0.9 x 0.7 



THREE PHASE EMISSION (± .15 A)
 三相发射

1.2 x 1.2 



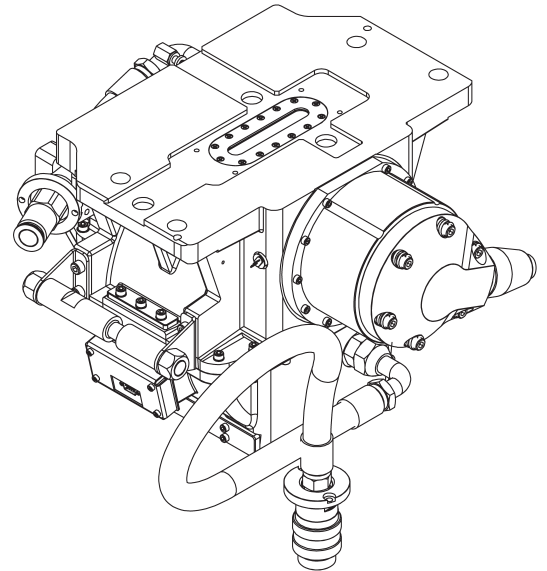
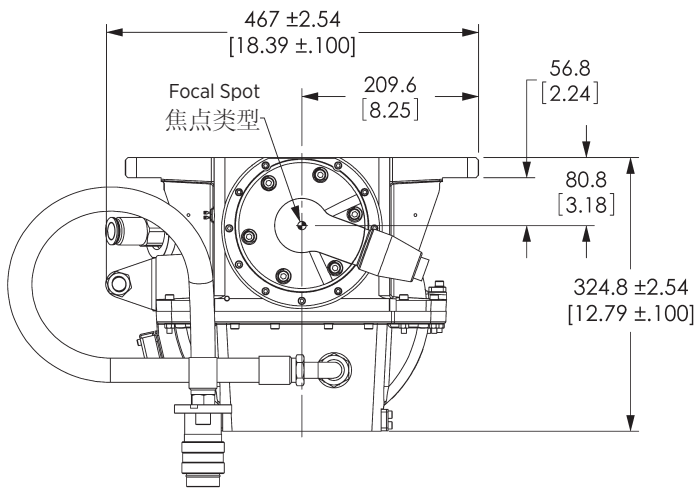
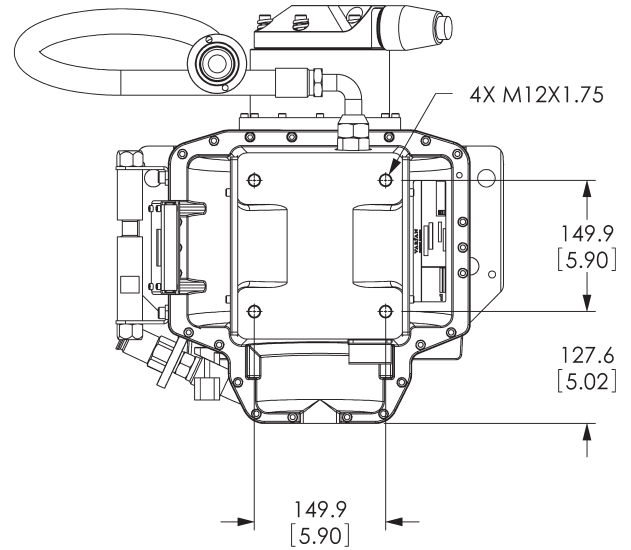
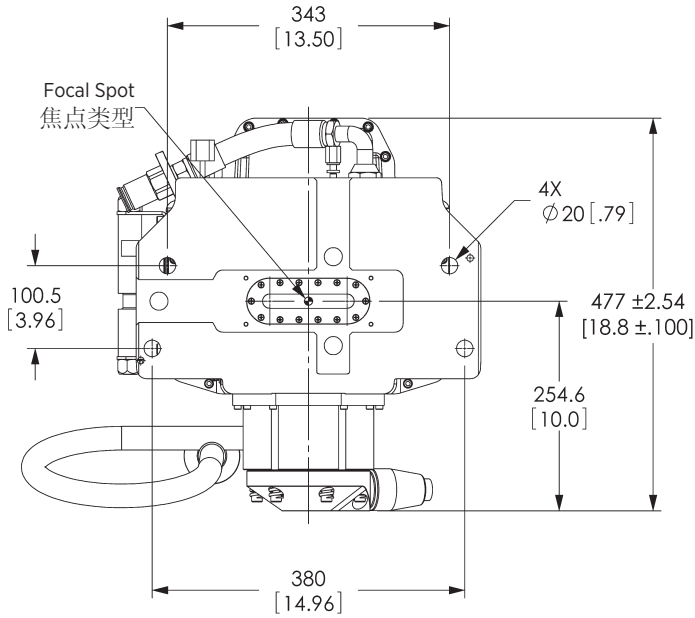
Product Description

Maximum Peak Voltage	140 kV
Anode to Ground	0 kV
Cathode to Ground	140 kV
Maximum X-ray Tube Assembly Heat Content	5.5 MJ (7.7 MHU)
Nominal Continuous Input Power @ 25°C ambient	8.0 kW (11.2 kHU/sec) IEC 60613:2010
Maximum Housing Temperature	78°C
Maximum Heat Exchanger Dissipation	8.0 kW (11.2 kHU/sec)
Permanent Filtration	
X-Ray Tube Assembly (IEC 60522)	3.25mm Al / 70kV
X-Ray Insert02mm Al / 70kV
Loading Factors for Leakage Radiation	140 kV, 57 mA
High Voltage Cable	Special
Ambient Air Temperature Limits for Operation	15°C to 45°C
Temperature Limits for Storage and Transport	-20°C to + 75°C
Humidity	10% to 90%
Atmospheric Pressure Range	70 kPa to 106 kPa
Weight - Housing	106 kg (234 lbs)
IEC Classification	Class 1
Safety Devices	
Housing - Thermal Switch	
Normally Closed Contacts	Opens at 93°C ±3°C
Filament Frequency Limits	50 Hz - 25 kHz
Power Supply	DC

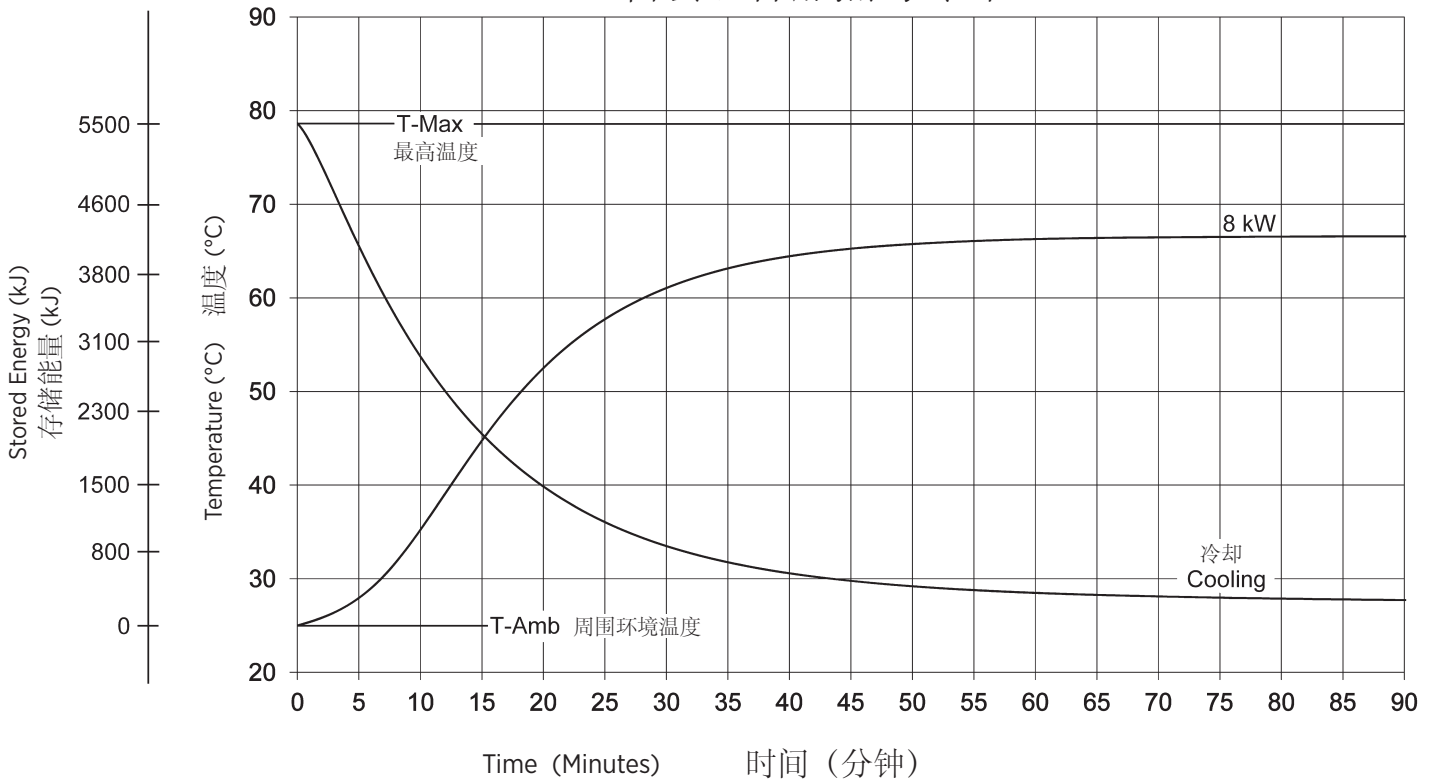
产品说明

最大峰值电压	140 kV
阳极到地	0 kV
阴极到地	140 kV
最大 X 射线管组件热含量	5.5 MJ (7.7 MHU)
标称连续输入功率在25°C环境温度情况下	8.0 kW (11.2 kHU/seg) IEC 60613:2010
最大管套温度	78°C
交换器最大热耗散	8.0 kW (11.2 kHU/seg)
固有滤过	
X 射线管组件 (IEC 60522)	3.25mm Al / 70kV
X 射线管芯02mm Al / 70kV
泄漏辐射加载系数	140 kV, 57 mA
高压电缆	特别
环境气温工作限值	15°C 到 45°C
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
重量: 管套	106 kg (234 lbs)
IEC 分级	1类
安全性装置	
管套	
热控开关: 常闭接点	开启温度为 93°C ±3°C
灯丝频率限值	50 Hz - 25 kHz
电源	直流

Dimensions are for reference only
维度是供仅参考



Tube Housing Assembly Heating and Cooling 管套组件加热与冷却

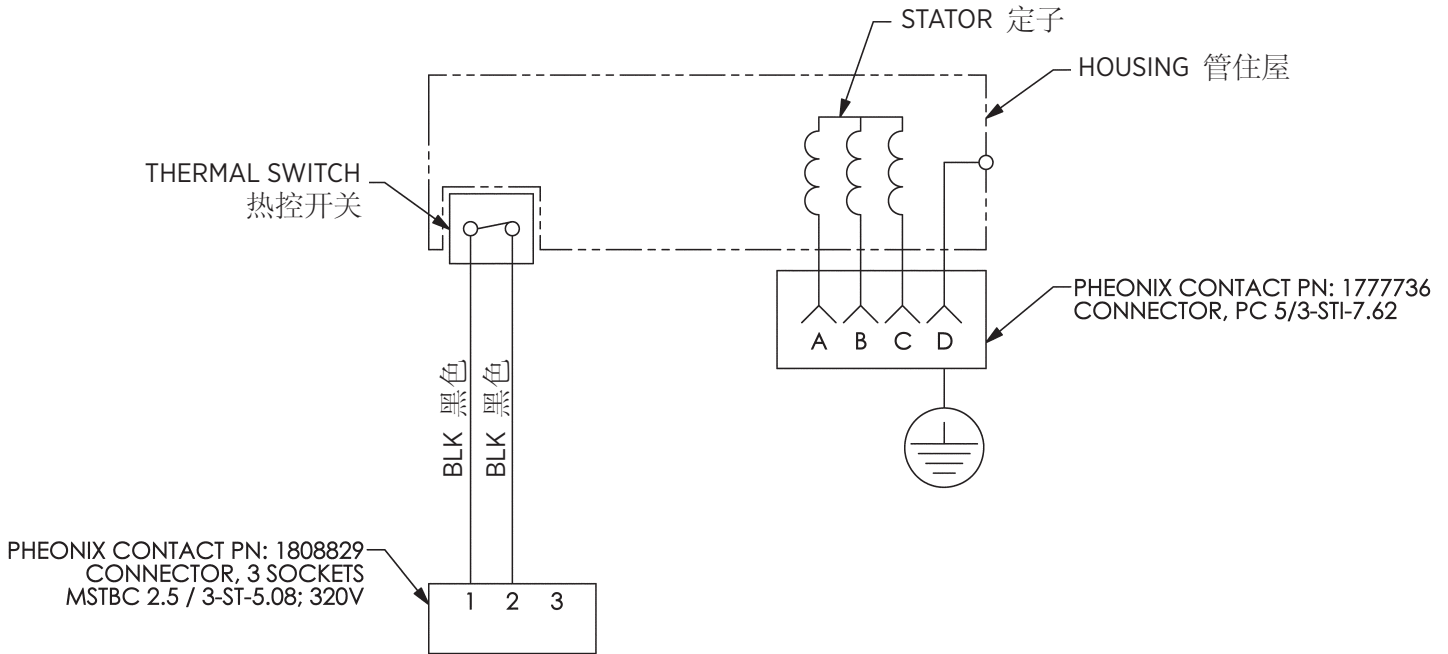

Note:

- Heat input into housing includes all power sources; tube, filament, stator and circulating pump.
- Heating curves based on no restrictions to air flow through heat exchanger, or natural convection around tube housing assembly.
- Heating and cooling curves reflect maximum tube performance. Tube operation is ultimately limited by system software control.

注释:

- 输入外壳的热量包括所有电源; 管, 灯丝, 定子和循环泵。
- 加热曲线基于对通过热交换器的空气流动没有限制, 或管壳体组件周围的自然对流。
- 加热与冷却曲线反映了管的最高性能。管的工作状况最终受系统软件控制的限制。

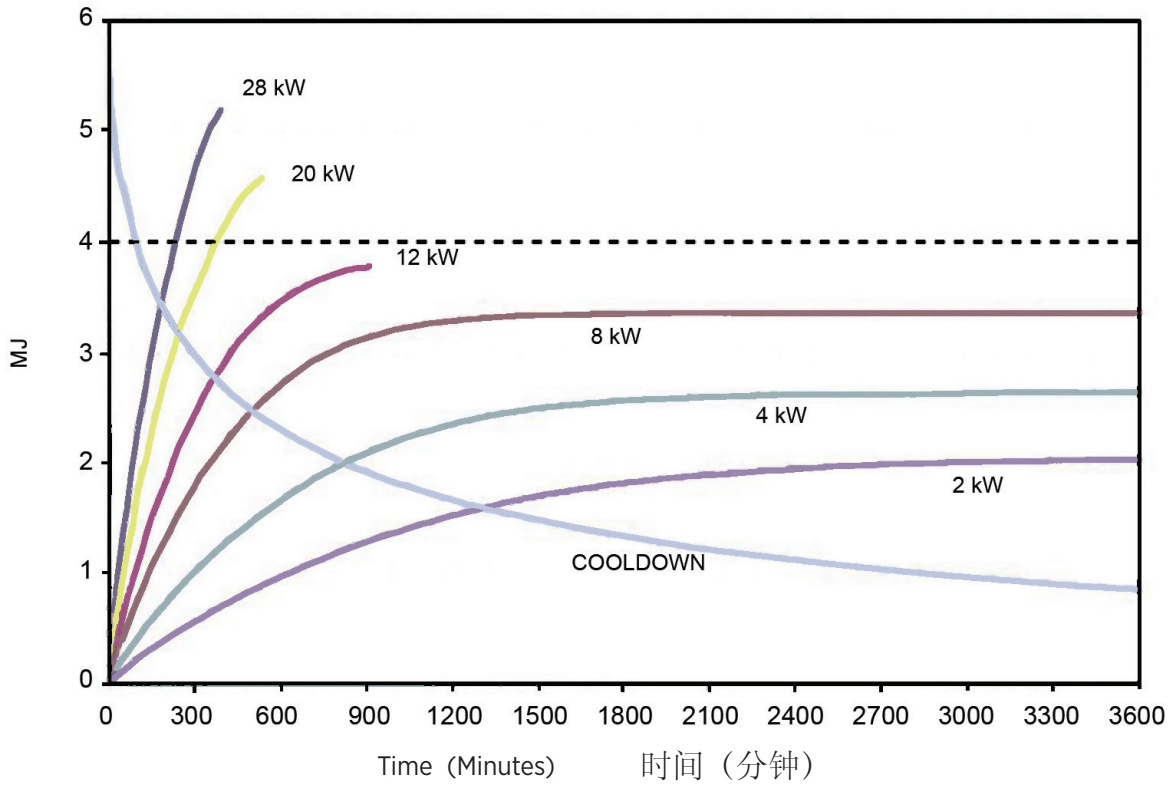
Terminal / Wire Color Chart
终端 / 导线颜色图



Stator Type: 3 Ø, 4 Pole	
Stator Coil Resistance:	2.3 Ohms ± 5%
Starter Voltage:	Start Run
	280 Hz 430 VAC 260 VAC
Time to Full Speed:	
140 Hz ±2 Hz in < 12 Sec.	
8400 RPM ±1120 RPM	
X-Ray Tube Assembly:	
MCS-8064/B-680H	IEC 60601-2-28

定子类型: 3 Ø, 4 pole	
定子线圈电阻: 2.3 Ohms ± 5%	
启动器电压: <u>启动</u> <u>运行</u>	
280 Hz 430 VAC 260 VAC	
达到全速的时间:	
140 Hz. ±2 Hz. ≤12秒	
8400 RPM ±1120 RPM	
X 射线管组件:	
MCS-8064/B-680H	IEC 60601-2-28

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



Note:
Heating and cooling curves reflect maximum tube performance. Tube operation is ultimately limited by system software control.

注释:
加热与冷却曲线反映了管的最高性能。管的工作状况最终受系统软件控制的限制。



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Manufactured by Varex Imaging Corporation
由万睿视影像有限公司生产

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