

This is a family installation manual for Hazardous Location applications in China.

这是一份适用于中国危险场所应用的安装手册。

Read this first!

English

Before operating this device, please read this manual thoroughly and retain this manual for future reference! This device may only be installed and put into operation by qualified personnel. If damage or malfunction should occur during operation, immediately turn power off and send device to the factory for inspection. The device does not contain serviceable parts. The information presented in this document is believed to be accurate and reliable and may change without notice. For any clarifications the English translation will be used.

WARNING

Risk of electrical shock, fire, personal injury, or death:

- Turn power off before working on the device. Protect against inadvertent re-powering.
- Do not open, modify or repair the device.
- Use caution to prevent any foreign objects from entering the housing.
- Do not use in wet locations or in areas where moisture or condensation can be expected.
- Do not touch during power-on and immediately after power-off. Hot surfaces may cause burns.

Product Description

The SLA3 is a DIN-rail mountable single-phase-input power supply, which provides network power for the AS-Interface® system. The AS-Interface® system is a field bus technology, where power and data are provided by the same single two-conductor wire. Therefore, special power supplies with an integrated data-decoupling circuit are required to prevent the modulated signal voltage on the AS-Interface® bus from being corrupted.

Intended Use

This device is designed for installation in an enclosure and is intended for commercial use to supply power to AS-Interface® network systems.

Do not use this device in equipment, where malfunctioning may cause severe personal injury or threaten human life without additional appropriate safety devices, that are suited for the end-application.

If this device is used in a manner outside of its specification, the protection provided by the device may be impaired.

When operating without AS-Interface structure (e.g. in a laboratory test), connect a 470µF/35V capacitor between AS-Interface + and AS-Interface – terminals to avoid output voltage oscillations.

Ratings:

SLA3.100 Input: AC 100-120/220-240V, 2.0A/0.9A, 50-60Hz
Output: DC-AS-I 30.6V, 2.8A
Temperature range: -10°C to +60°C
Ex protection level: Ex ec IIC T3 Gc

WARNING EXPLOSION HAZARDS!

The device is suitable for use in Group II Zone 2 environments. Substitution of components may impair suitability for this environment. Do not disconnect the device or operate the voltage adjustment unless power has been switched off or the area is known to be non-hazardous.

A suitable enclosure must be provided for the end product which has a minimum protection of IP54 and fulfils the requirements of the GB/T 3836.1 (EN 60079-0) .

The device shall only be used in an area of at least pollution degree 2, as defined in GB/T 16935.1.

The device is fulfilled the requirements related to Ex properties of GB/T 3836.1-2021, GB/T 3836.3-2021, GB/T 3836.8-2021.

安装要求!

中文

在操作本产品之前, 请仔细阅读本手册, 并保留本手册以供将来参考! 本产品只能由有相关资质的人员安装和操作。如果安装或运行过程中发生损坏或故障, 立即关闭电源, 并将产品返回厂商检查。本产品不包含需要维护的零件。本文件中提供的信息准确、可靠; 如有修改, 恕不另行通知。本文件翻译自英文版本, 中英文版本之间如有差异, 应以英文版为准。

警告

触电、火灾、人身伤害或死亡危险。

- 在设备上执行作业前, 先关闭电源。提供保护, 以免设备意外重新通电。
- 由于产品内部有高压, 请勿自行打开或维护本产品。
- 谨防任何异物进入壳体。
- 切勿在潮湿地点或可能会出现湿气或冷凝区域使用该产品。
- 电源在运行期间及刚断电时, 切勿触碰。灼热的表面可能会造成烫伤。

产品介绍

SLA3 是一个 DIN 导轨安装的单相输入电源, 为 AS-Interface® 系统提供网络电源。AS-Interface® 系统是一种现场总线技术, 电源和数据由同一根双导体导线提供。因此, 需要有集成数据去耦电路的特殊电源来防止 AS-Interface® 总线上的调制信号电压被破坏。

预期用途

本装置设计安装在机箱内, 用于为 AS-Interface® 网络系统供电的商业用途。如果没有适合终端应用的其他适当的安全装置, 不要将本装置用于故障可能导致严重人身伤害或威胁人命的设备中。如果本设备的使用方式不符合其规格, 本设备所提供的保护可能会受到影响。在没有 AS-Interface 结构的情况下操作时 (例如在实验室测试中), 在 AS-Interface+ 和 AS-Interface- 终端之间连接一个 470µF/35V 的电容, 以避免输出电压的振荡。

额定规格:

SLA3.100 输入: AC 100-120/220-240V, 2.0A/0.9A, 50-60Hz
输出: DC-AS-I 30.6V, 2.8A
温度范围: -10°C 至 +60°C
防爆等级: Ex ec IIC T3 Gc

警告 爆炸危险!

该设备适合在第 II 类第 2 区环境中使用。替换部件可能会影响对该环境的适用性。除非电源已经关闭或已知该区域无危险, 否则不要断开设备或进行电压调整。必须为最终产品提供一个合适的外壳, 其最低保护等级为 IP54, 并满足 GB/T 3836.1 (EN 60079-0) 的要求。设备须安装在不低于 GB/T 16935.1 定义的污染等级为 2 级的环境中。本产品符合 GB/T 3836.1-2021, GB/T 3836.3-2021, GB/T 3836.8-2021 中防爆性能的要求。