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V90 PN 报警 F07452 处 理办法

V90 PN, F07452

<https://support.industry.siemens.com/cs/cn/zh/view/109792139>

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**Security
informa-
tion**

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions only form one element of such a concept.

Customer is responsible to prevent unauthorized access to its plants, systems, machines and networks. Systems, machines and components should only be connected to the enterprise network or the internet if and to the extent necessary and with appropriate security measures (e.g. use of firewalls and network segmentation) in place.

Additionally, Siemens' guidance on appropriate security measures should be taken into account. For more information about industrial security, please visit <http://www.siemens.com/industrialsecurity>.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends to apply product updates as soon as available and to always use the latest product versions. Use of product versions that are no longer supported, and failure to apply latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <http://www.siemens.com/industrialsecurity>.

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1 概述

西门通用小型伺服控制器 V90 在自动化领域中得到了广泛的应用，在使用中工程师可能会遇到这样或那样的问题，本文给大家介绍一下常见故障 F07452 的处理办法。

2 F07452 报警处理

跟随误差是轴定位期间位置设定值和实际值之间的偏差，跟随误差过大时，超出 P2546 设置的公差范围，V90 会输出故障 F07452。

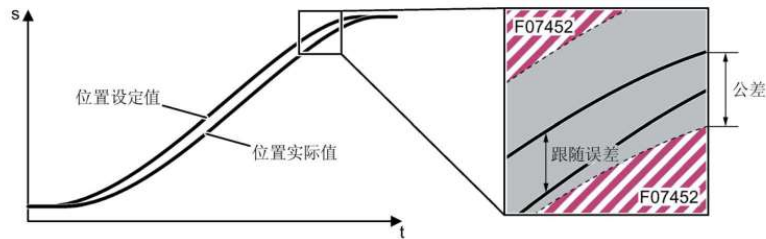


图 1. 跟随误差监控

驱动器报 F07452 的解决方法：

1. 首先检查当前使用的 V90 PN 固件是否是 V1.04.01 或 V1.04.02 的，如是请将固件更新到 V1.04.03，新固件对 V90 PN 中 F7452 的意外故障问题进行了修复，F7452 的触发条件为：

- 使用 V90 PN 固件 V1.04.01 或 V1.04.02
- V90 PN 在 EPos 控制模式下工作，使用报文 111
- 在一键优化时激活了扭矩预控和速度预控选项
- 在执行过一键优化后重新启动 V90 驱动器

当以上条件同时满足时，驱动器可能会产生 F7452 报警。如果出现此情况请将固件升级到 V1.04.03。

V90 PN 1.04.03 固件下载链接：

<https://support.industry.siemens.com/cs/us/en/view/109746210>

2. 固件更新后如在运行中仍出现 F07452 请做如下检查

- 通过 V-ASSISTANT 调试软件测试电机运行，测试运行过程中验证电缆（电机电缆、编码器）的正确连接以及机械是否存在卡顿问题。
- 监控电机实际转矩，评估实际转矩是否达到限幅或超过电机输出能力。

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- 如果由于闭环特性偏软导致跟随性差，可以通过增大速度前馈系数提高系统响应，并且可尝试提高动态系数进行一键自动优化或手动调整闭环参数实现较高的动态跟随性。
 - 可适当增大跟随误差监控公差来避免此故障，如果将 P2546 设置为 0，系统会取消跟随误差监控功能，故障就被屏蔽，不会进行监控。