

常问问题•03月/2016

STARTER 调试 DCM

DCM, 调试

http://support.automation.siemens.com/CN/view/zh/109737894

Unrestricted

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调试软件介绍

1.1 软件的下载、安装、使用

Starter 软件下载地址:

https://support.industry.siemens.com/cs/cn/zh/view/26233208/en

Starter 软件的安装:

- ▶ 查看下载文件中名为" readme"的 WORD 文档,确认安装 Starter 软件 对 PG/PC 的硬件、操作系统的要求
- ▶ 解压下载的压缩文件,并将解压后的文件放入一个文件夹内
- ▶ 设置 Windows 系统的语言环境为英文

Formats Location Ke Format: English (United Sta	yboards and Languages Administrative	Formats Location Keyboards and Languages Administrative Welcome screen and new user accounts View and copy your international settings to the welcome screen, and an even a variable account a
Date and time for Short date: Long date: Short time: Long time: First day of week: Region and Languag Formals Location Ke	nats M/d/yyyy dddd, MMMM dd, yyyy hrmm tt hrmmss tt Sunday ge yboards and Languages Administrative	Copy settings Tell me more about these accounts Language for non-Unicode programs This setting (system locale: controls the language used when displaying text in programs that do not support Unicode. Current language for non-Unicode programs: Chinese (Simplified, PRC) Change system locale.
Some software, inclu content for a particu such as news and we Current location: United States	iding Windows, may provide you with additiona lar location. Some services provide local inform ather.	Region and Language Settings Select which language (system locale) to use when displaying text in programs that do not support Unicode. This setting affects all user accounts on the computer. Current system locale: English (United States) OK Cancel

图 1-1 设置系统语言环境

▶ 安装 STARTER 软件,安装完成后可以重新设置 Windows 系统的语言 环境。

使用不同的在线方式建立 PG/PC 与 DCM 的在线连接,请参考以下文档:

https://support.industry.siemens.com/cs/cn/zh/view/90228691

1.2 调试前提

- ▶ 设备安装完毕、上电正常,电机能转动
- ▶ 断电状态下,短接 X177 端子 9、12、13
- ▶ 调试电缆

注意:此文档以 CP5711 通过 CUD 板 DP 接口 X126 进行在线调试为例。也可以使用 PC Adapter A2 版电缆调试。

CP5711 订货号: 6GK1571-1AA00

PC Adapter A2 版订货号: 6GK1571-0BA00-0AA0

1

调试

2.1

2

新建项目,上载硬件配置

序号	图示		
1.	新建项目,如下图所示: Project Edit Target system View Options Window Help 「ここ見聞」会 X 時間 ジロ ピ X X X 時間 新聞 日本 1.新建 Hotline New Project User projects		
	Name Storage path Hottine D:\Program Files (x86)\Siemens\Step7\s7proj\Hottine 2.输入项目名 Name: Type: Testroom Project Project 3.选择存放路径 FLibrary Storage location (path): D:\Program Files (x86)\Siemens\Step7\s7proj Browse		
2	OK 4.确认 Cancel Help		
	以且 FO/FC: 选择 " STONLINE(STEP7) CP5711.PROFIBUS",然后在属性设置 中匀选 " PG/PC is the only master on bus " 选项: Project Target system View Options Window Help Forest Target system View Options Window Help Forest Target system View Options Undow Help Forest Target system View Options Target System Options Undow Help Forest Target System Options Target System Options Undow Help Forest Target System Options Undow Help Forest Target System Options Opt		
	OK Standard Cancel Help		

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表 2-1 新建项目

2.2 配置 DDS



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序号	图示		
3.	配置 DDS(编码器配置): 注意,此处以自定义类型的编码器为例。		
	Desc IDC_CTFL_U2. DDS 0. MDS 0 When model: When model: When model: When model: When model: Stremm? Encoder: Stremm? Encoder: Stremm? Encoder: Stremm? Encoder: Enco		
4.	配置 DDS(设置 P50083, P2000): P50083=1,对应测速机反馈 P50083=2,对应编码器反馈 P50083=3,对应 EMF 反馈 P50083=4,对应自由连接的速度反馈 P50083=5,对应从 SMC30 接收的速度反馈 首次调试,推荐先设置 P50083=3。待电机转动确认测速信号正确后, 再将 P50083 设置为对应的值。		
	P2CUCU = 电化L 取 亩 按 还 Configuration - DCM - Encoder Function modules Prover unit Which encoder do you want to use? Prover unit Prover data Which encoder do you want to use for the speed controller? Prover data Which encoder use for the speed controller? Prover data Which encoder use for the speed controller? Prover data Which encoder use for the speed controller? Prover data Prover data		

序号	图示
5.	 配置励磁(首次调试,建议保持出厂设置值): P50082=0,禁用励磁。 P50082=1,励磁电流根据进线接触器状态来确定是否建立。 P50082=2,当装置进入>=O 7.0 状态,经过 P50258 设置的时间后,励磁电流从额定励磁电流减小到 P50257 参数设置的静态励磁电流。 P50082=3,始终通入额定励磁电流(弱磁区除外)。 P50081,是否使能弱磁。 rfgrueristice - DCM - Specifications for the Field I we storing: 1.P50081 I we storing: 2.P50081 I we storing: 2.P50081
6.	配置 DDS(通讯报文): 建议先保持出 厂设置,待传动调试完毕后再设置通讯。 Configuration - DCM - Process data exchange (drive)

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表 2-2 配置 DDS

优化调试 2.3

序号

1. 设置 P840=0, 使装置进入 O7.1 状态: 出厂设置值 P840=1,在 X177 端子 9、12、13 短接的情况下,装置会 处于 O8.0 状态,装置禁止合闸。设置 P840=0,装置会进入 O7.1 状 态,可以通过 control panel 来启动装置。
 Image: Second 🗄 🎒 Test roor Insert single drive u DCM [DCM Adv BL ON / OFF (OFF BI: No coast-down BI: No coast-down BI: No Quick Stop BI: No Quick Stop BI: Control by PLC BI: Unconditionally BI: Speed controls BI: Unconditionally BI: Speed controls BI: Unconditionally CO/BO: Status we 144 Insert new object , Configuration 1.驱动专家列表



图示

/ coast-down (OFF2) signal sou DC_CTRL_02, p840[0] BI: ON / OF Please select the signal sourcel DC_CTRL_02

P no.

Find para

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2.设置P840=0 •

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表 2-3 优化调试