沈阳西门子中国一级代理商

产品名称	沈阳西门子中国一级代理商
公司名称	浔之漫智控技术(上海)有限公司总部
价格	3400.00/件
规格参数	品牌:西门子 货期:现货 产地:德国
公司地址	上海市松江区石湖荡镇塔汇路755弄29号1幢一层 A区213室
联系电话	15021292620 15021292620

产品详情

沈阳西门子中国一级代理商

创建示例程序

这个控制程序示例可帮助您理解使用 STEP 7-Micro/WIN SMART 有多容易。 该程序在三 个程序段中使用 6 条指令创建了一个非常简单的自启动、自复位定时器。 在本例中,使用梯形图 (LAD) 编辑器输入程序指令。 下面的示例以 LAD 和语句表 (STL) 形式显示了整个程序。 描述列说明每个程序段的逻辑。 时序图显示了程序的运行。 STL 程序中没有程序段注释。

请注意项目树和程序编辑器。 通过项 目树将指令插入到程序编辑器的程序 段中,方法是将项目树"指令"(Instructions)部分中的指令拖放 到程序段中。 程序中的所有块均保存在项目树的程序块文件夹中。程序编辑器工具栏中的图标提供 PLC 命令和编程操作的快捷方式。

输入并保存程序之后,可以将程序下载到 CPU。

3SF1 行程开关可直接通过 AS-Interface 总线系统连接,实现安全通信。安全功能不再需要常规接线。

通过 3SF1 行程开关, ASIsafe 电子装置可以集成到开关外壳中。

模块化系统中选型举例

模块化系统

3SF11.4 和 3SF12.4 系列行程开关具有模块化结构设计,由不同形式的基本开关和按钮头(需单独订购)组成。得益于开关的模块化设计,终用户可以从为数众多的型号中选择适合自己应用的正确解决方案,

并在很短时间内自行安装。

设计

3SF1 开关有 4 种不同按钮盒规格可供选择:

根据 EN 50047,塑料按钮盒,31 mm 宽,带 M12 设备接头

根据 EN 50041,塑料按钮盒,40 mm 宽,带 M12 设备接头

塑料按钮盒,50 mm 宽,带 M12 设备接头和 M12 接口

金属按钮盒,56 mm 宽,带 M12 设备接头和 M12 接口

显示

该开关系列配有带三个 LED 的状态显示屏:

LED1(黄色):FIN1

LED2(黄色):FIN2

LED3(绿/红):AS-i/FAULT

连接

到 AS-Interface 的连接是通过一个连接到黄色 AS-Interface 总线电缆的 4 针 M12 接口(塑料型)完成的。

宽外壳(50或56mm)还具有用于连接第二个行程开关的 M12接口。如此,可实现安全等级 SIL 3 (IEC 62061/IEC 61508)或 PL e (ISO 138491)。

优势

The 3SF1 safety switches offer:

ASIsafe electronics integrated in the enclosure, with low power consumption < 60 mA

An extensive range of actuators

Status display with three LEDs

Can be integrated easily via TIA Portal

应用

With the standard position switches, mechanical positions of moving machine parts are converted into electrical signals. Through their modular and uniform design and large number of variants, the devices can comply with

practically all requirements in industry.

Devices are available with enclosure versions to suit the particular ambient conditions. Different control tasks can be performed with the contact blocks best suited for the particular purpose. And many different actuator variants are available to match the mechanical configuration of the moving machine parts. Dimensions, fixing points and characteristics are largely in accordance with the EN 50041 or EN 50047 standards.

The devices are suitable for use in any climate.

Standards

The switches comply with IEC 609471 (Low-Voltage Controlgear, General) and IEC 6094751 (Electromechanical Control Circuit Devices).

The mechanical design of the switch corresponds to the requirements of the fail-safe principle according to ISO 14119.

Approvals

AS-Interface according to IEC 620262

The 3SF1 position switches are approved according to UL 508, UL 50 and UL 746-C.

Safety circuits

Standard IEC 6094751 requires positive opening of the NC contacts. In other words, for the purposes of personal safety, the assured opening of NC contacts is expressly stipulated for the electrical equipment of machines in all safety circuits and marked in accordance with the standard IEC 6094751 with the symbol ().

With a 3SF1 safety switch with (), SIL 2 according to IEC 2061/IEC 61508 or PL c according to ISO 138491 can be attained if the corresponding fail-safe evaluation units are selected from the ASIsafe program and correctly installed.

If a second 3SF1 safety switch with () is used, SIL 3/PL e can be attained.

Evaluation of safety functions

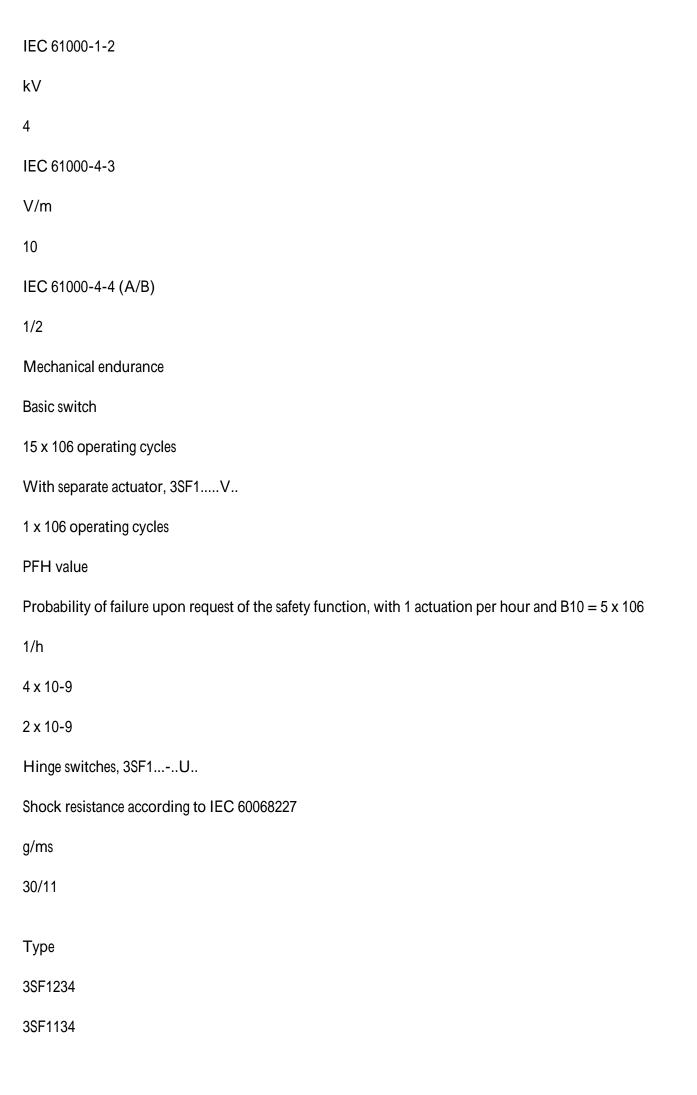
Safety Evaluation in the TIA Selection Tool

The safety evaluation for the standards IEC 62061 and ISO 13849-1 is performed quickly and easily, directly in the TIA Selection Tool. In addition to the fast and safe calculation of machine safety functions — from the definition of the system structure to the selection of components — this enables shared data management during all project phases. Take the next step in the digital design of machinery and equipment with Safety Evaluation in the TIA Selection Tool.

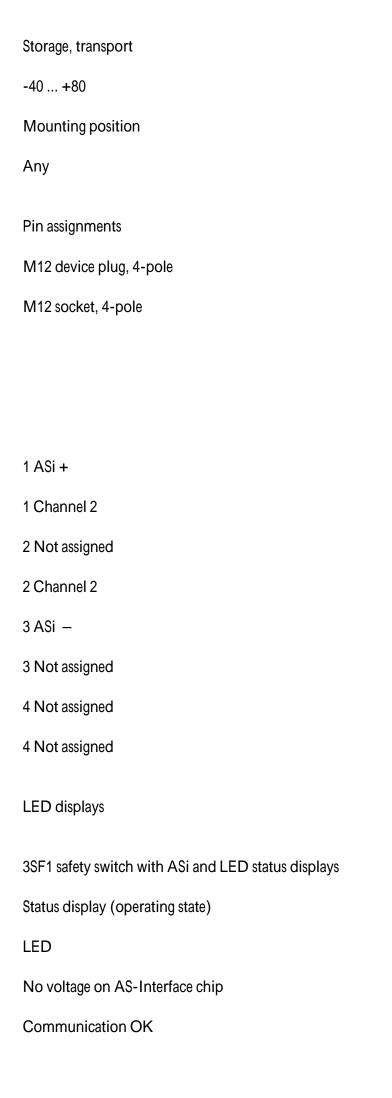
In addition, the functionalities of the proven Safety Evaluation Tool are still available. It determines the achieved safety integrity (SIL/PL) step-by-step. You receive the results as a standards-compliant report that can be integrated in the documentation as proof of safety.

For more information see www.siemens.com/safety-evaluation.

技术规范
Туре
3SF11, 3SF12
General data
Standards
IEC 6094751, ISO 14119
Data according to AS-Interface specification
I/O configuration/ID configuration
0/B
ID1 code/ID2 code (hex)
F/F
Power consumption, overall
mA
60
Inputs
Low signal range
Contact open
High signal range
Contact closed, Iin dynamic (Ipeak 5 mA)
Status display
Green/red dual LED
Rated impulse withstand voltage U imp
kV
0.6



3SF1244
3SF1214
3SF1114
3SF1124
Enclosures
Material
Ultramid A3X2G7
Zinc die-casting GDZnAl4Cu1
Width
mm
31
40
50
56
Dimensions according to EN
EN 50047
EN 50041
EN 50047
Degree of protection according to IEC 60529
IP65
IP66/IP67
Ambient temperature
During operation
During operation ° C



Communication failed	
Slave has address "0"	
ASi/Fault (GN/RD/YE)	
Safe inputs	
LED	
Not actuated	
Actuated	
F-IN1 (YE)	
F-IN2 (YE)	
沈阳西门子中国一级代理商	沈阳西门子中国一级代理商