



**SIEMENS**

*Ingenuity for life*

## Simply switch safely

SIRIUS contactors with failsafe control input –  
innovative and powerful

[siemens.com/sirius-control](https://www.siemens.com/sirius-control)

# Simply switch safely



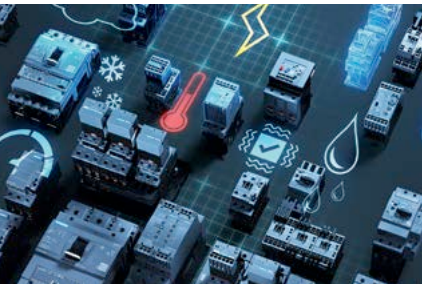
3RT203□-□S□30



3RT204□-□S□30



3RT105□-□Sv36  
3RT145□-□S□36



The SIRIUS modular system plays an important role when it comes to implementing safety-related applications. Our portfolio encompasses many other SIRIUS safety components, with which you can quickly and easily implement innovative safety solutions.

- SIRIUS 3SK safety relays
- Accessories to configure compact contactor combinations, such as the safety main current connector
- SIRIUS 3RM1 and ET 200SP motor starters with integrated safety-related shutdown
- SIRIUS ACT commanding and signaling devices, can be controlled via Profinet and Emergency Stop
- Soft starters SIRIUS 3RW55 Failsafe
- Safety mechanical or contactless position switches

SIRIUS contactors can be directly controlled from failsafe controllers. In the higher power ranges, generally a coupling level was required due to the higher power consumption of the contactors. These new contactors with failsafe control input mean that this coupling level can be eliminated.

The F-PLC contactors represent a consequential continuation and development of the SIRIUS modular system in the domain of safety-related switching. Their failsafe inputs make it possible to achieve SIL 2 or PL c in accordance with IEC 62061 or ISO 13849-1 with just one contactor. SIL 3 or PL e can be achieved by connecting two contactors in series.

The huge advantage of this solution is that additional positively driven coupling relays can be eliminated and the safety assessment process is made significantly simpler.

Safety Evaluation with TIA Selection Tool (TST) for Standards IEC 62061 and ISO 13849-1 allows you to quickly and simply assess the safety functions of your machine. The result is a report in compliance with the standard, which can be integrated into the documentation as proof of safety.



## Advantages at a glance

### Digital input directly on board

- Contactors with certified, digital F-PLC input for control from failsafe controllers, standard controllers or safety relays

### Time, cost and space saving

- No additional coupling level
- Lower engineering and wiring costs as a result of the safety main current connector
- Portfolio covers a wide range up to 250 kW

### Simplified safety calculation

- Contactors seamlessly certified in all sizes

### Tamper protected

- Cover for the seal (accessory)
- Contactor variant with permanently mounted auxiliary switches

You can simply download the TIA Selection Tool (TST):

[www.siemens.com/safety-evaluation](http://www.siemens.com/safety-evaluation)

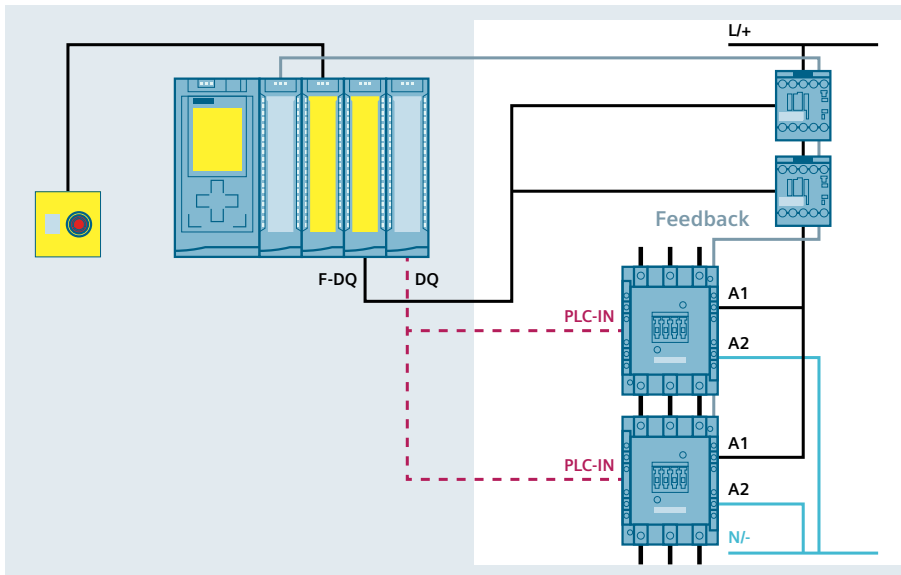


3RT1066-0S036  
3RT1460-0S036



3RT1075-0S036  
3RT1470-0S036

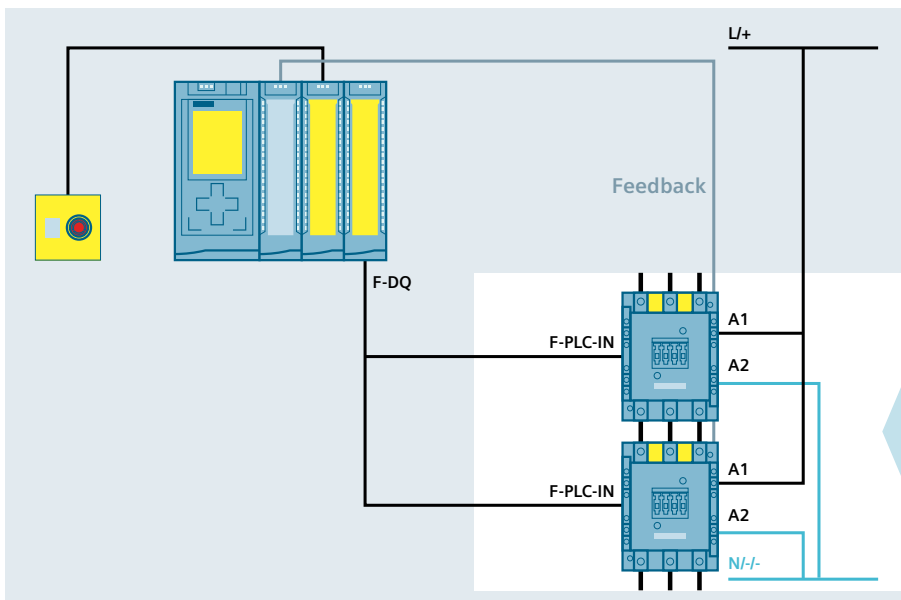
**Example for SIL 2 and SIL 3 / PL e application without F-PLC-IN**



**3RT1 in size S6 with standard or solid-state operating mechanism with PLC-IN**

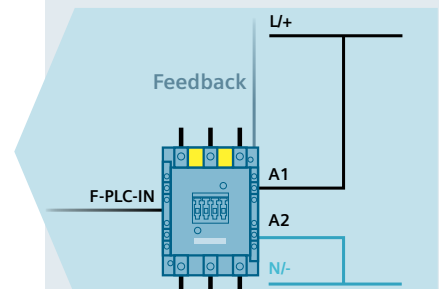
- Safety-related tripping only possible via coupling links and F-DQ
- Standard operating mechanism: operational switching via coupling links and F-DQ
- Solid-state operating mechanism: operational switching with PLC-IN and DQ

**Example for SIL 3 / PL e (left) and SIL 2 / PL c (right) application**



**3RT1 in size S6 with standard or solid-state operating mechanism with fail-safe control input F-PLC-IN (e.g. 3RT1055-6SP36)**

- Safety-related tripping and operational switching via F-PLC-IN and F-DQ
- SIL 2 / PL c possible with only one contactor



More information is available at  
[www.siemens.com/sirius-control](http://www.siemens.com/sirius-control)

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