SIEMENS
Ingenuity for life

The World's First Failsafe Connected Contactor

Save space and costs with high-performance, innovative SIRIUS contactors in sizes S6 to S12

The size S6 to S12 range of tried and tested contactors from 100 to 400 HP @ 480V has been expanded to include versions suitable for direct control from fail-safe controllers, rendering the coupling level superfluous. The new contactors are also available with non-removable, lateral auxiliary switches, enabling fulfilment of Swiss Accident Insurance Institute (SUVA) requirements.

The new contactors constitute the logical extension and further development of the SIRIUS modular system, serving to promote safe switching. They are the first contactors on the market to be equipped with an input for fail-safe signals. This makes it possible to attain SIL 2 and/or PL c with just one contactor and SIL 3 and/or PL e with two contactors in series according to IEC 62061 and ISO 13849-1.

The big advantage of this solution is that it saves on additional, possibly positively-driven coupling relays and makes evaluation of safety information considerably easier.

This reduction in coupling relays is also a huge plus point for non-safety applications. Whereas previously space, money and wiring expertise were required in order to operate contactors from 100 HP and higher using controllers, both functional and safety switching can now take place by direct activation.

Using the Safety Evaluation Tool, you can quickly find the right contactor and safely configure your application.

Advantages at a glance

Digital input directly on board

- First contactor with certified, digital input for activation from fail-safe or standard controllers

Time and cost savings

- Economization of additional coupling level
- Reduced wiring and configuration effort

Maximum safety level

- Certified input enables devices to be used up to the highest safety level (SIL 3 / PL e)

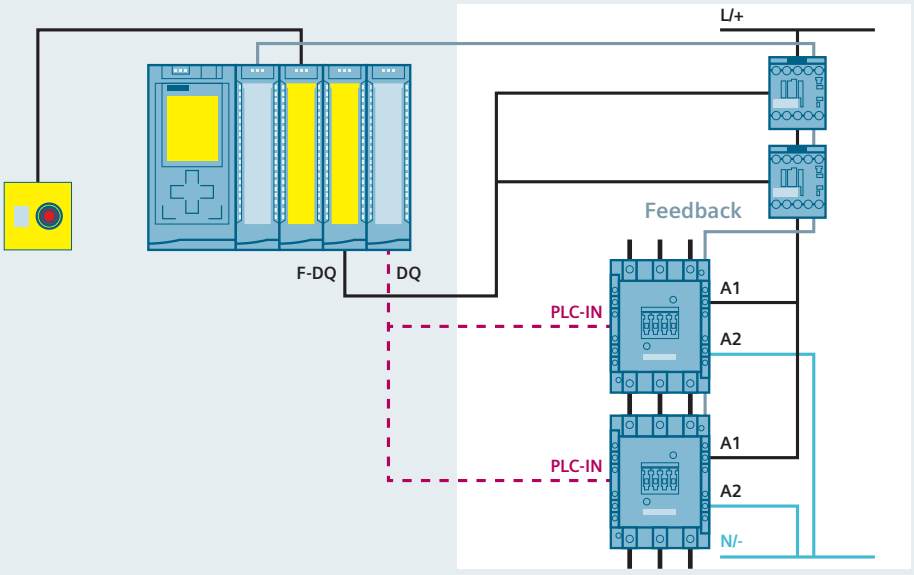
Everything from a single source

- Complements safety solutions offered by the SIRIUS modular system

siemens.com/sirius-modular-system

Save space and costs with a direct connection

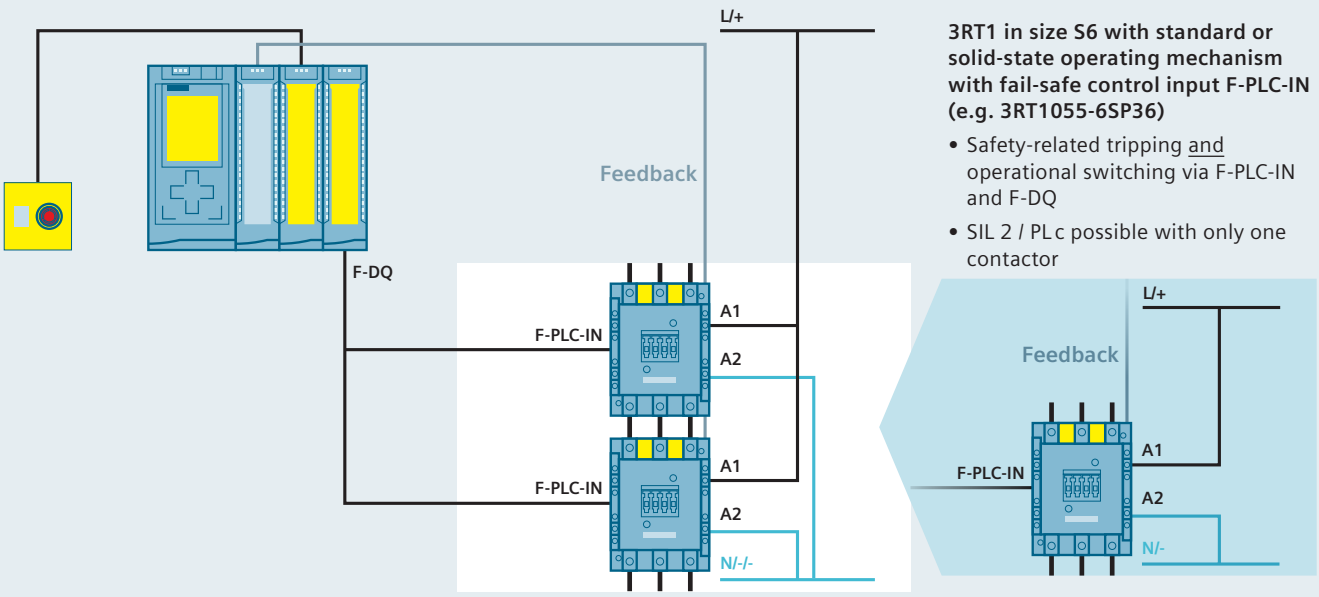
Example for SIL 2 and SIL 3 / PL e application – previously:



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 – new:



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

The SIRIUS modular system helps you build safe applications. Our portfolio also includes a large number of different SIRIUS Safety components which enable the quick and easy setup of further safety solutions:

- Safety relays (SIRIUS 3SK1, 3SK2)
- Accessories (Z connectors)
- SIRIUS 3RM1 motor starters and ET 200SP motor starters
- SIRIUS ACT command and signaling devices controllable via PROFINET and emergency stop

More information is available at **usa.siemens.com/sirius**

Published by
Siemens Industry, Inc. 2020.

Siemens Industry, Inc.
5300 Triangle Parkway
Norcross, GA 30092

For more information, please contact
our Customer Support Center
Phone: 1-800-866-663-7324
E-mail: info.us@siemens.com

siemens.com/sirius-modular-system

Order No: CPFL-FSCO-0220
Printed in U.S.A.