ABB ELECTRIFICATION, SAFETY PRODUCTS

Tina 5A and DYNlink circuits in parallel

The product Tina 5A (2TLA020054R1900) is obsolete.

The purpose of TINA 5A is to enable parallel branches of DYNlink devices, usually for bypassing some safety devices by other safety devices under special conditions.

Tina 5A has some filtering functions for the dynamic signal which almost eliminates the risk of unwanted interruptions of the signal at switching either branch on or off.

Other DYNlink devices can be used as a replacement of the Tina 5A, but the risk of an unintended interruption of the DYNlink signal will be higher.
When a replacement of the Tina 5A with other DYNlink devices has a too high risk of unintended interruptions, another solution could be to add an additional Vital controller for each branch and connect the output relays of the two new Vital controllers in parallel into the original DYNlink circuit.

A third alternative would be to connect the different parts of the DYNlink circuits to separate inputs of a programmable safety controller and handle the bypass conditions in the application software.