



Removal of SR-series Relays from their Case while the System is Energized

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DESCRIPTION

While it is not recommended as a common practice, all SR-series relay cases are equipped with shorting pins on the current inputs that allow the relay to be removed from the drawout case while the system is energized. The following precautions should be followed when attempting to remove the relay in this situation:

1. All units have a failsafe relay used for indicating internal relay errors as well as loss of control voltage. This contact is normally closed when the relay is powered up and there are no internal faults detected. When the relay is removed from the case, this normally closed contact will open. Ensure this relay contact is not wired into the trip circuitry, or being used as a signal to a SCADA or PLC device to trip out the breaker. To simulate the relay while it is removed, you may want to short out this terminal.
2. Examine your system to ensure there are no other output contacts in a normally closed state while the system is running. If there are any closed Aux contacts during normal system conditions, make sure they will not initiate a trip if when they open, or short out the contacts on the case while the relay is being removed.
3. Make sure that there are no communications to the relay, via RS485 or RS232, that will initiate a trip through the master communication device if the communications are interrupted.
4. If a new relay is being re-inserted into the system, there should be no latched trips from bench or functional testing the relay. If there are any concerns about the relay being inserted causing a trip condition, remove the trip coil wires from the back of the relay (for NO wiring) or short out the terminals (for NC wiring).

As all systems have unique design and wiring, there may be other factors to consider when removing the relay from an energized system. Ensure the above points have been checked, as well as examining any peripheral devices that may be connected to your relay, either hard-wired or via communications. Ensure that any device connected to your relay with the ability to trip the system has been disabled.

If there are any specific questions concerning this procedure, please contact GE Multilin Technical Support at 1-800-547-8629, or via e-mail at Multilin.Tech@indsys.ge.com.