

Line Relays TLIN10

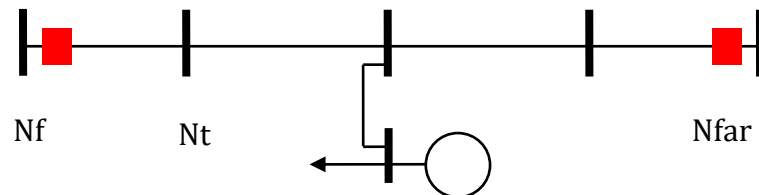
Over-voltage or Over-frequency Relay Tripping Line Circuit Breaker(s) TLIN10

Relays are assigned to a specific end of a branch. This end is specified by the column **Device Location** which can be set to either *From* or *To*. It is specified on the branch dialog by checking the box **Device is at From End of Line (otherwise at To End)**. The end specified by the **Device Location** is referred to as the "Relay End", while the other is referred to as the "Other End".

When this relay's conditions are met, the tripping which occurs depends on the Flag parameter as follows

- 0 : Only the Relay End of the branch is opened (determined by **Device Location**).
- 1 : Both ends of the branch are opened and the far end branch is also opened.
- 2 : Only the Relay End of the branch is opened (determined by **Device Location**). However, the relay will determine if the line presently serves a radial system (i.e. the *Nfar* bus branch is already open). If a radial system is served, then all devices such as load or generation is also opened.

Multiple TLIN10 relays can be assigned to the same end of a branch. In order to distinguish between them there is an extra key field called Device ID which must be specified for the TLIN10. When loading from an auxiliary file, if this field is omitted, Simulator assumes value of "1".



Model supported by PSLF

The value monitored by this relay is determined by the Input parameter.

- 0 : means frequency in Hz
- 1 : means per unit voltage

The bus at which this value is monitored is specified by signal bus (SBus). If a signal bus is not specified, then the Relay End bus will be used instead.

The relay condition is met if the monitored value goes above the pickup value (V1) at least the relay definite time settings (T1). When the relay is condition is met the trip will occur after the circuit breaker time delay (Tcb1)

An Other Field include a signal which have the following meanings.

- 0 : not picked up (not in Zone)
- 1 : Picked up, not timed out
- 2 : Picked up, timeout complete
- 3 : Circuit Breaker Trip Complete