

FKR3-DIN

FKR3T-DIN

PHASE FAILURE and SEQUENCE MONITORING DEVICE

In three phase systems, when all phases are in correct order and phases are balanced, Normal LED turns on and the relay is energized.

Missing Phase : When at least one of phases L1, L2, L3 is missing, phase off LED turns on and at the end of delay time (1-10s) relay de-energizes its contact.

Phase Sequence : If the phase sequence is correct, Relay On LED turns on and relay energizes its contact. If phase order is changed, Phase Off LED turns on and at the end of delay time (1-10s) relay de-energizes its contact.

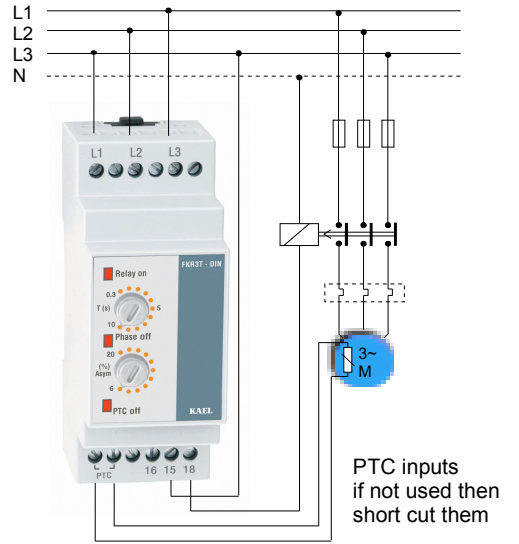
Phase Voltage Unbalance : Phase-phase voltage unbalance is adjusted using the knob located on the front panel of the device. If phase unbalance exceeds the adjusted limit, Phase Off LED turns on, at the end of delay time (1-10s) relay de-energises its contact .

Voltage Asymmetry Adjustment (Phase Unbalance)(asym.%)

Phase to phase asymmetry is adjusted using the adjustment knob in the range of $\pm\%6$ $\pm\%20$

PTC Protection : If you have a device with PTC protection capability (FKR3T-DIN), additional properties are equal with Thermistor Relay (TKR). If you do not want to use this property, simply short circuit the PTC connections.

Connection Scheme



Delay time adjusment : 1 - 10 seconds

Technical Data:

- Rated Voltage, Un : 3 Phases (3 x 400Vac)
- Operating Range : (0,8-1,1) x Un (Un nominal voltage)
- Frequency : 50 Hz
- Energizing and de-energizing difference : $\pm\%3$
- (15-16) : Normally Closed Contact
- (15-18) : Normally Open Contact
- Contact Current : max. 5A/240 VAC
- Power Consumption : < 8 VA
- Device Protection Class : IP20
- Connector Protection Class : IP00
- Ambient Temperature : -5°C $+50^{\circ}\text{C}$
- Humidity : $\%15$ $\%95$ (without condensation)
- Connection Type : Perpendicular to inner panel or to connection rail
- Dimensions : 58 x 90 x 35

