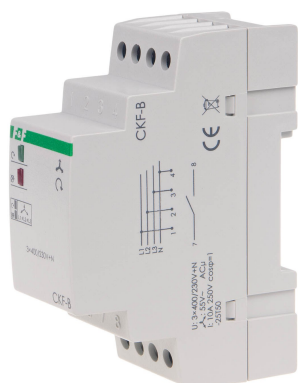




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## CKF-B-TRMS

**Phase sequence and failure relay**

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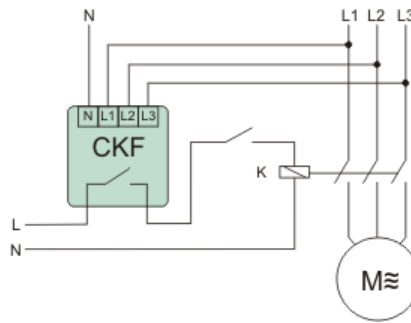
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With fixed actuation threshold voltage asymmetry.

Three phase and sequence monitor is designed to protect three phase electric motors against voltage drop in at least one phase or voltage asymmetry between phases, which could damage the motor, with additional protection of motor rotation direction in case of phase change before the monitor.



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## Functioning

Voltage collapse in any phase or voltage asymmetry between phases above fixed actuation threshold causes switching-OFF the motor. The motor switching-OFF occurs after delay of 4 sec, which prevents accidental motor switching-OFF caused by instantaneous voltage drop. Switching the motor ON anew occurs automatically when the voltage increases of 5V~ above activation voltage (i.e. about value of voltage hysteresis). At occurrence of these disturbances, it is not possible to set motor in motion. In case of change of phase sequence, before the monitor, which causes change of motor rotation direction (in relation to that primarily set) is signaled by shining red diode LED along with impossibility of switching-on the motor. The re-connection is possible after the return to correct phase sequence.

TECHNICAL DATA

|                                               |                  |
|-----------------------------------------------|------------------|
| With detachable clamps                        | Nie              |
| External power supply required                | Tak              |
| Phase sequence monitoring                     | Tak              |
| Phase failure detection                       | Tak              |
| Function under voltage detection              | Tak              |
| Function overvoltage detection                | Tak              |
| Phase imbalance monitoring                    | Tak              |
| Min. adjustable off-delay time                | 1 s              |
| Number of contacts as normally open contact   | 0                |
| Type of electric connection                   | Screw connection |
| Supply voltage AC 50 Hz                       | 150-280 V        |
| Min. adjustable delay-on energization time    | 4 s              |
| Max. permitted delay-on energization time     | 4 s              |
| Max. permitted off-delay time                 | 1 s              |
| Number of contacts as normally closed contact | 1                |
| Number of contacts as change-over contact     | 0                |
| Operating voltage AC 50 Hz                    | 150-280 V        |
| Rated switch current                          | 16 A             |
| Voltage type (supply voltage)                 | AC               |
| Voltage type (operating voltage)              | AC               |
| Depth                                         | 0 mm             |
| Height                                        | 0 mm             |
| Width                                         | 0 mm             |

Manual

CE declaration

Certificate