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CKF-320-TRMS

Phase Sequence and Failure Relay

Index: CKF-320-TRMS

To protect electric motors supplied from a three-phase network in the event of a power failure in at least one phase or voltage unbalance between phases that threatens to destroy the motor and to protect the direction of rotation of the motor in the event of a phase change in front of the sensor.

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DESCRIPTION

The sequence and phase loss sensor is designed to protect an electric motor supplied from a three-phase network in the cases of:

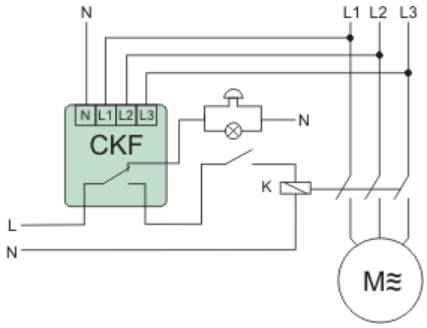
- power failure in at least one phase;

- voltage drop in at least one phase below 150 V;

- voltage increase in at least one phase above 280 V;

- voltage unbalance between phases above the set value;

- incorrect phase sequence.



Functioning

The correct supply voltage is indicated by the green LED diode. Voltage drop below 150 V or increase above 280 V on at least one, any phase, or voltage asymmetry above the set value is signaled by the green diode not lighting.

Both of the above anomalies (exceeding the voltage threshold, asymmetry) cause the device relay to turn off and, as a result, disconnect the motor.

In the case of asymmetry, disconnection is carried out with a set delay to avoid accidental shutdowns for temporary disturbances in the network.

In the event of a voltage drop below 150 V or an increase above 280 V, the disconnection is carried out after 1 s. The countdown to switching off is signaled by the flashing green diode.

The relay is switched on again automatically when the correct network parameters return (voltage hysteresis is about 5 V).

If the phase sequence in front of the sensor changes, causing the motor to rotate inadvertently, the sensor will not allow the motor to start (the red LED is on and the relay is off). Reconnection is possible after the correct phase sequence has been returned.

In case of incorrect connection of the input wires (phase in the place of the neutral wire), the LEDs flash in the order red, green indicating a connection error (in this case the output relay will not be turned on).

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
Rated switch current	8 A
Number of contacts as change-over contact	2
Number of contacts as normally open contact	0
Number of contacts as normally closed contact	0
Max. permitted off-delay time	1 s
Min. adjustable off-delay time	1 s
Max. permitted delay-on energization time	4 s
Min. adjustable delay-on energization time	4 s
Supply voltage AC 50 Hz	150-280 V
Operating voltage AC 50 Hz	150-280 V
Type of electric connection	Screw connection
Voltage type (supply voltage)	AC
Voltage type (operating voltage)	AC
Depth	0 mm
Height	0 mm
Width	0 mm

Manual

CE declaration

Certificate

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