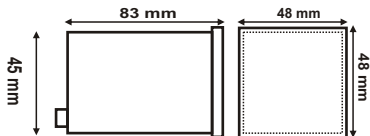


Dimensions

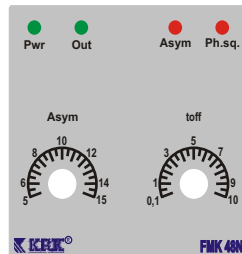


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True RMS

PHASE SEQUENCE & PHASE FAILURE DEVICE



User Guide

General Specification

FMK 48N is protect motors from ;
___ Phase loss
___ Phase sequence failure
___ Phase asymmetry

Protection Functions

I- Phase Loss : If the system has lost one of the phases, the output is closed without delay ("Ph. seq." and "Asym." led are lighted).

II-Phase Sequence Failure : If the sequence of the phases are wrong the output is closed without delay. Any case if the sequence is changed during normal operation the output is closed without delay . In this condition "Ph. seq." led is on.

III- Voltage Asymmetry: If system's phase-phase voltage values are between the adjusted asymmetry value, "out" led is on (2-3 contacts are closed). Otherwise the output is closed (1-2 contacts are closed). During normal operation, if asymmetry occurs "Asym." Led is on ad if it continues more than adjusted delay time device will cut-off the system (1-2 contact are closed). If it return normal value will continue to normal operation and all warning leds are off.

$$\text{Asymmetry (\%)} = \frac{\text{The max. deviation between Ph-ph values}}{\text{Nominal value of Ph-ph}} \times 100$$

IV- If any ph-ph values increases over 460V or decreases 250V device will closed the system without delay. Warning leds will light on accordingly.

Technical Specifications

Supply Voltage : 380 Vac (+%25 , -%35) 50/60 Hz
Asymmetry Adjustment : %5...%15
Delay Time : 0.1sec...10sec.
Power Consumption : <= 7VA
Ambient Temperature : 0..+60°C
Contact Type : Relay, 1 CO, 10A/ 250 Vac
Weight : 160g

Connection Scheme

