





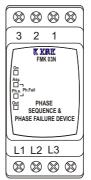
# PHASE SEQUENCE & PHASE FAILURE DEVICE

# WITHOUT NEUTRAL

FMK 03N SFMK 03N













## **General Specifications**

FMK 05N / SFMK 05N 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. seg." 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.

 $\mbox{IV-}$  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 : %15 Delay (OFF) Time : 0.1sec

Power Consumption : <= 7VA

Ambient Temperature :-5°C...+55°C
Contact Type :Relay, 1 CO, 10A (Omron)

Electrical Connector : Rising Clamp

Connection : Vertical inside panel or on DIN 35 rail
Weight : FMK 03N 0,16kg / SFMK03N 0,07kg

### **Connection Schemes**

