

# COMBINED VOLTAGE AND FREQUENCY GUARD

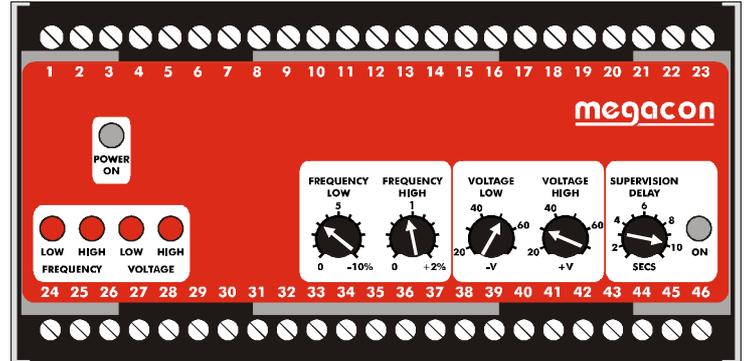
# KCVF593/4

## High an Low Voltage Alarms High and Low Frequency Alarms

### FEATURES

The KCVF593/KCVF594 is a fully self contained "All in One" instrument which measures and monitors both voltage and frequency in AC power systems. The instrument has been designed to meet the G59 requirements for under and over voltage and frequency protection.

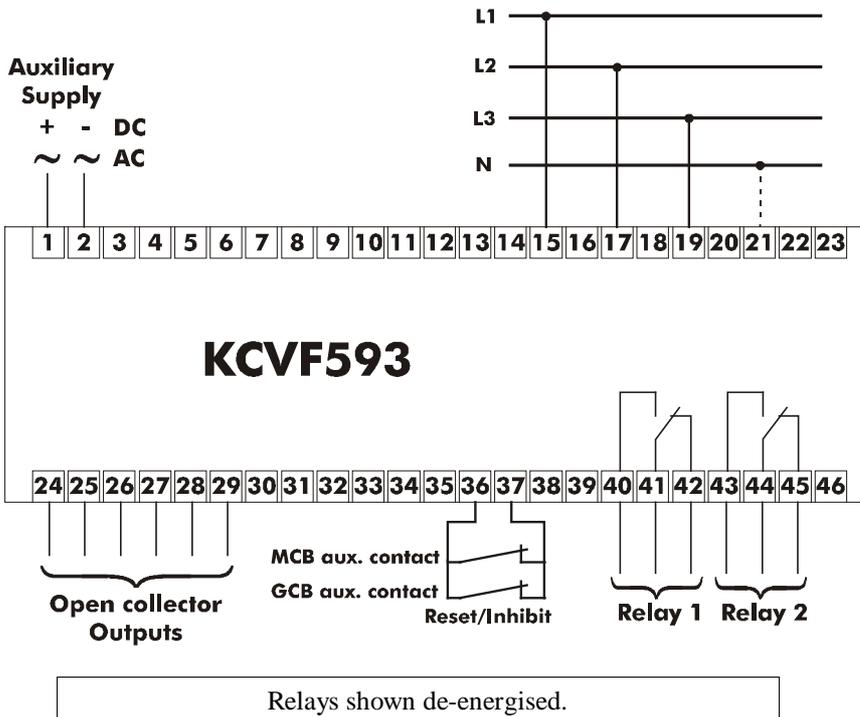
Model KCVF593 is designed for use on three phase, three wire systems and the KCVF594 is designed for three phase, four wire systems.



Voltage and Frequency limits can be adjusted by potentiometers mounted on the front of the instrument. Each model has three possible nominal voltage settings – e.g. 380, 400 and 415V which are selected by switches under the cover.

The appropriate RED "tripped" LED is illuminated on a first up principle when the pre-set voltage or frequency limit is exceeded. The trip relay is fail safe and will de-energise instantaneously on operation (maximum 300 milliseconds). Following a fault operation the relays latch and can be reset by an external inhibit/reset switch.

Repeater open collector transistor outputs are provided for remote indication or annunciation purposes.



#### Auxiliary Voltage

100-120V AC  
220-240V AC  
380-440V AC  
24V, 48V DC  
Nominal +/- 10%

#### Monitored Voltage

100-120V AC  
220-240V AC  
380-440V AC  
Nominal +/- 10%

#### Frequency

45-65Hz

#### Adjustments

Over Voltage :  $V_n + 20\%$   
Under Voltage :  $V_n - 20\%$   
Over Freq. :  $F_n + 2\%$   
Under Freq. :  $F_n - 10\%$   
Supervision Delay : 1-10 sec.

#### Open collectors

10mA 30V max.

#### Contact Rating

AC : 2A (415V, 800VA)  
DC : 250mA (50W resistive)

### ORDERING INFORMATION

Auxiliary voltage :  
Monitored voltage :

The MEGACON policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication



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