# KCVF595E



- Island Mode and synchronised to Mains Mode operation. Two Functions - One Solution
- **Over/Under Frequency**
- Over/Under Voltage
- Phase Imbalance
- **Triple Relay Operation**
- **Trip Indication Outputs**
- **Adjustable Supervision Delay**

#### **Specifications**

Auxiliary Voltage: Self powered from monitored voltage input Optional Auxiliary Voltage: 24 or 36-110VDC (Fuse 2A) Monitored Voltage 100-120, 200-240, 380-415 or input: 440-460VAC, 40-70Hz (Fuse 0,5A) Frequency Range: 45-65Hz Relay Standard: Latching relays as standard. User selectable to 3-180sec auto reset of alarms

AC: 100VA - 250V/2A max. Contact Rating: DC: 50W - 100V/1A max.

Open Collector

Outputs: 30V DC max. - 500mA max. Settings: See page 2 and 3

Supervision Delay: 0,1-10,0 secs Adjustments: (All other adjustments are made via the

hand held controller HHP1 or HHP2) Internal Watchdog: An independent watchdog monitors

signal flow. Flashing of LEDs1, 2 and 3 in a binary pattern indicate

operational error

Dielectric test/

Galvanic separation: 4.0kVAC

Class HUE, (DIN40040) Climate:

-20 to +70°C Temperature: 0.5kgs Weight:

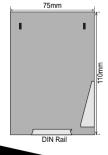
Front protection: IP21

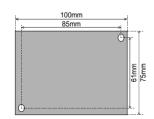
Enclosure: Flame retardant polycarbonate to

UL94 (VO)

The unit meets IEC60093-504 and the relevant environmental and EMC tests specified in IEC60068/60092 and IEC61000/60533 respectively.

#### **Dimensions**





## **Description**

The KCVF595E (3-wire) meet the protection requirements for short term parallelling of private generation to mains supply such as defined in G59 recommendations.

It combines under/over frequency, 3-phase under/over voltage and phase imbalance all in one single

Trip points and other adjustments are made either via a hand held controller of via a computer.

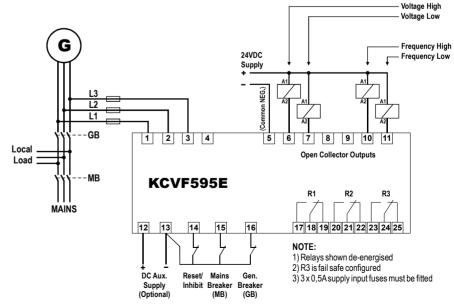
Operational mode is controlled by two inputs from the generator and mains breakers. A different set of parameters can be set to allow for protection in both island operation and connected to mains.

An adjustable Supervision delay is fitted to overcome spurious tripping that may occur when synchronising with the mains.

Auxiliary supply and monitored inputs can be from the same source, as shown, or independent (DC).

Trip status is indicated by LED's and open collector outputs.

#### **Connection Diagram Three Phase 3-Wire connection**

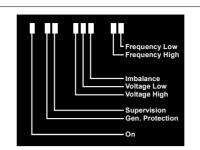


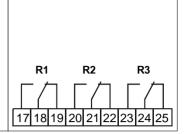
# KCVF595E

### **Operation**



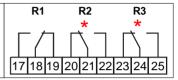
Auxiliary supply off All LED's off

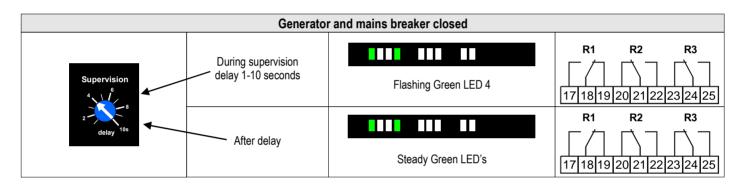


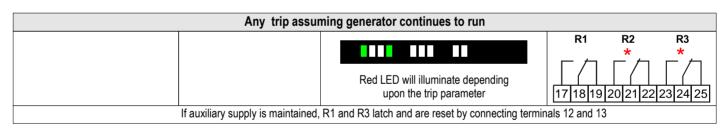


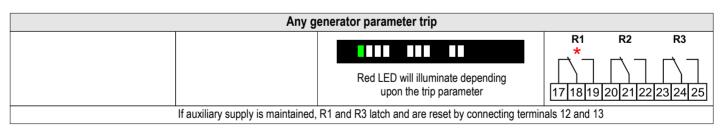
Aux. Supply on, unit inhibited











\* Indicates relay changing state

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



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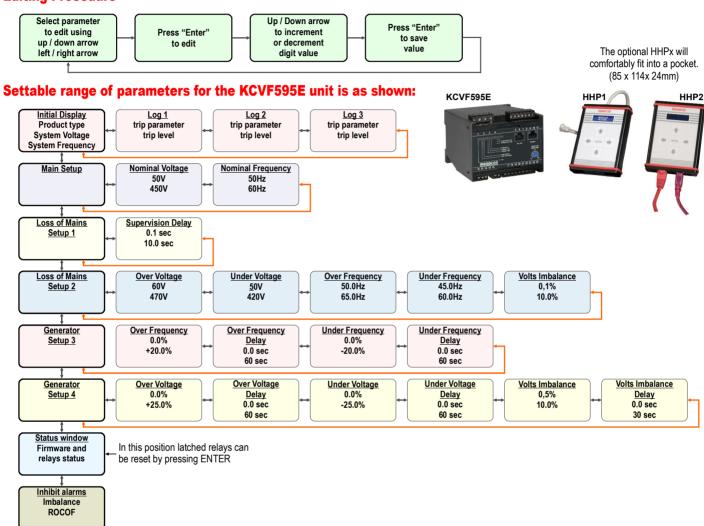
# KCVF595E

### **Programming and Events Log**

Programming of KCVF595E can be achieved using Megacon's universal Programmer HHP1. The ID-protected programmer is powered directly from the unit and is used to program the parameters of any unit within the IS range. When plugged to the unit, the parameters unique to the unit will be displayed. This removes the need for expensive laptop computers. The HHP1 will comfortably fit into a pocket.

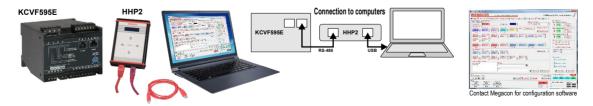
The ID-protected programmer is powered directly from the unit and is used to program the parameters of any unit within the IS range. When plugged into the unit, the parameters unique to the unit will be displayed. The HHP2 can also be used via the interface USB port to laptop computers.

### **Editing Procedure**



#### **Programming and Events Log**

Programming of KCVF595E can also be achieved using Megacon's configuration software. The optional HHP2 must be used to interface to laptop computers.



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ORDERING EXAMPLE:

KCVF595E Type: Gen. Voltage: nom: 230V Optional unit HHP2



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