

- Generator Overcurrent Protection with definite time trip delay
- Two individually settable overcurrent relays
- "Pathfinder" function eases faultfinding
- Triple relay operation give more flexibility
- For use with 1A or 5A current transformers
- Optional fast analogue output, $<50 \mathrm{mS}$ )
- Independent ammeter with full current scale

Specifications

| Auxiliary Voltage: | $100-120 \mathrm{~V}, 200-240 \mathrm{~V}$, <br> $380-415 \mathrm{~V}, 440-460$ or 480VAC <br>  <br>  <br> Optional Auxiliary <br> Voltage: |
| :--- | :--- |
| Supply tolerance: | $24,48$ or 110VDC (Fuse $0,5 \mathrm{~A})$ |

The unit meets EN 61010-1 Cat. III, Pollution degree 2 and the relevant environmental and EMC tests specified in EN 61326-2-4 to comply with the requirements of the major Classification Societies.

## Description

KEC112x series provides overcurrent guard for overload protection of AC motors, transformers etc. for alarms or tripping of non-essential load or breaker.

True RMS measurement not affected by heavily distorted waveforms provides highest up precision (1.0\%) protection. Less than 50 mS overcurrent detection.

User settable trip levels and delays. Colour of LEDs indicates alarm status. LEDs flash during countdown.

The independent class 1,5 moving iron ammeter input (term. 26 \& 27) MUST be externally connected in serie with one of the C.T. inputs OR via an external selector switch to read phase current.

Fastresponse analogue output signal proportional to a range (KEC112F \& KEC112GF).
The DIN96 instrument reads the current level directly in Ampere. The ammeter and the triple-zone status LEDs at a glance gives the clear safety message:

$$
\begin{aligned}
& \text { - OVERCURRENT (O/C) } 2 \\
& \text {-OVERCURRENT }(\mathrm{O} / \mathrm{C}) 1 \\
& \text {-NORMAL }
\end{aligned}
$$

Full Load Current adjustment(FLC)
The FLC potmeter (Pot.5) adjust the 100\% alarm level O/C1 and O/C2 from 50-100\% of the Full Scale Deflection (FSD).


Related information
The KEC112x-range is also available for rail mounting as KOC112x or KOC114x.


## Description

## KEC112E-KEC112F \& KEC112G - KEC112GF

R1 energises when trip level one (Overcurrent 1) is exceeded and R2 trips when trip level two (Overcurrent2) is exceeded.

R3 is an extra status relay that energises if either alarm relay 1 or 2 is active and can be used for local indication, PMS input, alarm system input etc.

## Analogue Output

The KEC112F and KEC112GF has an analogue output proportional to the highest up ampere-meter reading.

The signal is specifically intended as an input to a control system for monitoring or control. Add suffix from table below to type designation to specify output required:

| O/P1 | $0-10 \mathrm{~mA}$ | O/P6 | N/A |
| :--- | :--- | :--- | :--- |
| O/P2 | $\mathbf{0 - 2 0 \mathrm { mA }}$ | O/P7 | N/A |
| O/P3 | $\mathbf{4 - 2 0 \mathrm { mA }}$ | O/P8 | $0-10 \mathrm{~V}$ |
| O/P4 | N/A | O/P9 | $0,2-10 \mathrm{~V}$ |
| O/P5 | N/A | O/P10 | $\mathbf{4 , 3 - 2 0 \mathrm { mA }}$ |

Relay Reset
Any latched relay is reset by linking terminals 29 and 30 or by interrupting the voltage input to terminal 1.

## *Note 1:

Ammeter input is either connected in serie with one of the C.T. inputs OR via an external selector switch.

Relay Operation


## Relay Configurations

The relay operation is delayed in the arrow direction. Both trip levels can, independently, individually set over the scale range.


Cascade 1

## Dimensions



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

