

AC CURRENT CONTROLLER VC9095

PROTECTION AGAINST

- Single Phase
- Unbalance
- Over Current
- Phase Reversal
- Short Circuit

FEATURES

- Micro controller based design
- Instantaneous and definite time characteristics
- True RMS reading to full scale
- CT Ratio settable
- Bright LED Indication
- Six digit LED display
- Fault condition store and replaying
- Non-Volatile memory for data storage
- Membrane keypad for setting
- 1 Amp / 5 Amp Current input
- Software Calibration
- Manual selection / Auto scrolling of display
- 96 x 96 ABS plastic enclosure

APPLICATION

- Instantaneous and definite time over current and fault protection of Transformers, Generators, Feeders, Compressors, Motors etc.



GENERAL DESCRIPTION

ICD AC Current Controller is a Microcontroller based design which receives 3 Line currents through three external current transformers. These current inputs are isolated with internal CT and given to Microcontroller. The CPU samples input current from which true RMS current is obtained. Also Phase reversal, single phasing and phase unbalancing is also monitored. When the over load occurs after a definite time delay set 1 the relay is deenergized. For other fault a separate time delay 2 is given and on fault after set delay 2 the relay is deenergized. With membrane keypad all settings can be made. Fault status indications are available.

Relay acknowledge provision is available to clear the faults. The AC Current Controller is house 96 x 96 ABS plastic case

TECHNICAL SPECIFICATION

| | | |
|----------------------------|---|--|
| System Input | : | 1 Amp / 5 Amp |
| Frequency range | : | 45 to 55 Hz |
| Primary current of CT | : | Programmable |
| Type of protection | : | Over Load, Phase failure, Phase reversal, Phase unbalance, Short circuit |
| Display | : | 6 digit 0.39" seven segment Red LED |
| Indicating Resolution | : | 1 A < 1000A, 0.01 KA > 1000A |
| Indicating Accuracy | : | ±0.5% + 1 LSD |
| Operating Range | : | 5% to 120% of full scale |
| Displayed parameters | : | Line current R, Y, B |
| Faulty condition display | : | The last reading at which fault occurred is stored and displayed |
| Over current | : | 50 to 200% Adjustable in steps of 1% |
| Short circuit current | : | 200 to 300% Adjustable in steps of 5% |
| Control setting means | : | Through membrane keys |
| Time delay set 1 | : | Meant for O/C only. Range 1 to 120 secs |
| Time delay set 2 | : | Meant for phase fail, phase reversal, unbalance. Range 1 to 120 secs |
| Output | : | 1 C/o Potential free relay contact |
| Contact rating | : | 5Amps at 230V AC |
| Relay action | : | Relay is in energized state for normal operation and deenergized under fault condition |
| Relay Acknowledge facility | : | Available |
| Aux. Power Supply | : | 90 – 275VAC |
| Box dimension | : | 96 x 96 x 120 mm, ABS plastic |
| Mounting | : | Panel |

PLEASE PROVIDE THE FOLLOWING DETAILS WHILE PLACING YOUR ORDER / ENQUIRY

1. Current Input 2. HT / LT Application 3. CT Primary 4. Self Powered / External Supply.

OUR RANGE OF PRODUCTS

Volt Meter, Ammeter, VAF Meter, Energy Meter, Dual Source Meter, Load Manager, Power Multimeter, Trivector Meter, Maximum Demand Controller, Harmonic Indicator, Power Factor Controller, Smart PF Controller, Power Factor Correction Panel, AC Voltage Controller, AC Current Controller, Motor Protection System, Voltage/Current/Power/Frequency Transducer, Power Transmitter, Energy Management and Billing Systems etc...



INDUSTRIAL CONTROLS & DRIVES (INDIA) PVT. LTD.

No. 33, Mettukuppam Road, (Via Alappakkam Road), Maduravoyal, Chennai - 600 095

Phone: 044 - 4293 4324 / 4293 4325 / 4293 4333 Fax: 044 - 4293 4355.

E-mail: gcicdipl@vsnl.com, sales@icdipl.net

Website: www.icdipl.net