

# DDCW3

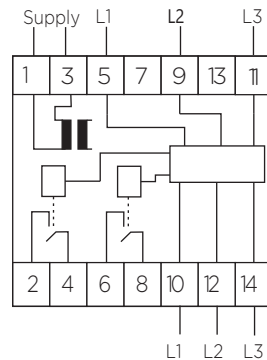
## Digital Three Phase Current Monitor with Display



### Description

Four digit Current window comparator monitors and display all three Currents and has two relays which can be set to trip with 8 different situations. The display can rotate through all or manual advance through current. A manual latch and startup and response delay can be set.

### Wiring Diagram



### FEATURES

- Microprocessor controlled
- Multi Function
- Two relay outputs
- Hysteresis
- 4 digit display
- User friendly menu system
- Startup delay
- Response delay
- Over / under current setting
- Modular 53.5mm Din rail Mountable
- 2 \* 8A SPST output relay

### Input Specifications

|                         |                           |
|-------------------------|---------------------------|
| Input Pin               | 5, 9 & 13 L1, L2, L3      |
| Measuring Ranges (VAC)  | Pin 10,12,14<br>0-5A      |
| Scale                   | ± 5 - 50%                 |
| Voltage Interruption    | >500 ms                   |
| Dielectric Voltage      | None (supply/electronics) |
| Rated Impulse Withstand | 4 kV (50 us line/line)    |

### Output Specifications

|                     |  |
|---------------------|--|
| Relay Output        | 2 * SPST                                 |
| Rated Isolation     | 6000 VAC<br>(contact / electric)         |
| Voltage             | 1000 VAC<br>(contact / contact)          |
| Nominal Rate in Ac1 | 2500 VA                                  |
| Rated Current       | 8A                                       |
| Rated Voltage       | 250V                                     |
| Mechanical Life     | 10*10 <sup>6</sup> cycles                |
| Electrical Life     | 110*10 <sup>3</sup> cycles (at max load) |
| Operating Frequency | ≤ 1800 cycles/h                          |

### Supply Specifications

|                      |   |
|----------------------|---|
| Power Supply AC Type | 110, 230, 400V<br>(Galvanic) 525V ± 10% |
|                      | 50 / 60 Hz ± 5Hz                        |
| Isolation            | 4kV                                     |
| Consumption          | ± 3VA<br>± 6VA 525 V                    |

### General Specifications

|                 |   |
|-----------------|---|
| Power ON Delay  | ≤ 300 ms  |
| Power OFF Delay | ≤ 200 ms  |
| Indication for  | 4 digit LED display   |
| Environment     | Degree Of Protection IP 20<br>Operating Temperature -10 to + 50°C<br>Storage Temperature -50 to + 85°C<br>Weight 200g |

## Digital Three Phase Current Monitor with Display

### Mode of Operations

The relays will release under the following conditions which are set in menu option 1 and 2:

- 1 - Over Current Phase 1
- 2 - Over Current Phase 2
- 3 - Over Current Phase 3
- 4 - Over Current Phase 1,2&3
- 5 - Under Current Phase 1
- 6 - Under Current Phase 2
- 7 - Under Current Phase 3
- 8 - Under Current Phase 1,2&3

The startup delay can be set in menu option 7

The response delay can be set in menu option 8

If the Latch is set in menu option 6 the relay will not reset automatically.

### Menu Diagram

|                                      |         |
|--------------------------------------|---------|
| "SET" Button Momentarily             |         |
| Over current setpoint                | (OvEr)  |
| Under current setpoint               | (UndEr) |
| "SET" Button 4 seconds               |         |
| Relay1 Trip 1-3                      | (trP.1) |
| 1 - Over Current                     |         |
| 2 - Under Current                    |         |
| 3 - Over and Under Current           |         |
| Relay2 Trip 1-3                      | (trP.2) |
| same as above                        |         |
| Hysterisis 5-20%                     | (HySt)  |
| CT ratio                             | (Ct)    |
| Display 1-2                          | (dSPL)  |
| 1 - L1,L2,L3                         |         |
| 2 - Manual (with up and down button) |         |
| Latch 0-1                            | (LAtc)  |
| On delay 0-180sec                    | (On.dL) |
| Response Delay 0-180sec              | (Of.dL) |