Type: LMCVR-500V

Multifunction, Combined Voltage Relay

Terminal Protection to IP20

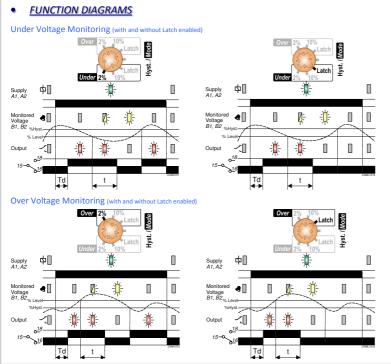
43880

W. 17.5mm



- *NEW* 17.5mm DIN rail housing
- \Box Microprocessor based
- True R.M.S. monitoring
 - 7 Selectable monitoring ranges (20 500V AC/DC)
 - Selectable Under or Over Voltage monitoring
- Selectable hysteresis or latch option
- Adjustable trip level and time delay
- Isolated Auxiliary Supply (24 - 230V AC/DC) 1
- 1 x SPDT relay output 8A
- Green LED indication for supply status
- Yellow LED indication for alarm status \Box
 - Red LED indication for relay status





INSTALLATION AND SETTING

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the Auxiliary and Monitored Inputs as required.

- Set the "Hyst. / Mode" selector 7 to the required position depending whether under or over monitoring is required. Select either a suitable hysteresis setting of 2% or 10% or choose Latch if required.
- Set the "Range" **1** to the required position (depending on monitored input voltage to be monitored).
- Set the "Trip Level %" **6** and "Delay" **4** to suit the selected monitoring range and delay to tripping period.

Applying power.

Apply power and the green LED 1 will illuminate.

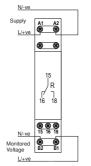
nder voltage mode is selected

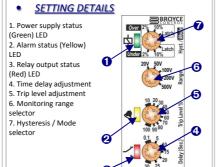
Relay energises / red LED 3 illuminate if the voltage is above the set "Trip Level". If the voltage falls below the "Trip Level", yellow LED 2 flashes for the set "Delay" then remains lit. Red LED extinguishes / relay de-energises. If Over voltage mode is selected

Relay energises / red LED 3 illuminate if the voltage is below the set "Trip Level". If the voltage rises above the "Trip Level", yellow LED 🥹 flashes for the set "Delay" then remains lit. Red LED extinguishes / relay de-energises.

TECHNICAL SPECIFICATION Auxiliary supply voltage U (A1, A2): 24 - 230V AC/DC 1 (12 - 60V AC/DC also available) 48 - 63Hz (AC supplies) Frequency range: +15%/ - 10% III (IFC 60664) Overvoltage category: Rated impulse withstand voltage 4kV (1.2/50μS) IEC 60664 Power consumption (max.): 24V 48V 0.84 VA 0.82 VA 1.1 VA 1.4 VA Monitoring mode: Under or Over voltage (selectable) Hysteresis: 2 or 10% (selectable) Enabled using Mode selector switch 2 - 20V. 5 - 50V. 10 - 100V. 20 - 200V. 50 - 500V Monitoring ranges Trip level: 10 - 100% of selected monitoring range Time delay (t): 0.1 - 30S (from fault occurring to relay de-energising) Power up delay (Td): 1 second (fixed) 100mS $\pm\,1\%$ of maximum full scale < 5% of maximum full scale Accuracy Adjustment accuracy: Repeat accuracy: ± 0.5% at constant conditions Drift with temperature: ±0.05% / °C Drift with voltage: $\pm 0.2\% / V$ Monitoring input (B1, B2) 0.2 to 500V AC/DC Frequency: DC. 48 - 500Hz 1.2 x 500V Maximum input rating: Overload: 1kV for 1s Overvoltage category: Rated impulse withstand voltage III (IEC 60664) 4kV (1.2/50µS) IEC 60664 Power on indication: Green LED Alarm status indication: Yellow LED Relay status indication: Red LED -20 to +60°C Ambient temp: Relative humidity Output (15, 16, 18) SPDT relay 250V 10A (2500VA) Output rating: AC1 250V 5A (no), 3A (nc) 25V 10A (250W) AC15 DC1 Electrical life: ≥ 150,000 ops at rated load Dielectric voltage 2kV AC (rms) IEC 60947-1 Rated impulse withstand voltage: 4kV (1.2/50µS) IEC 60664 Orange flame retardant UL94 Housing Weight: 63g On to 35mm symmetric DIN rail to BS EN 60715 Mounting option: or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit Terminal conductor size \leq 2 x 2.5mm² solid or stranded Approvals: C(UL)US LISTED IND. CONT. EQ. CE and RoHS Compliant.

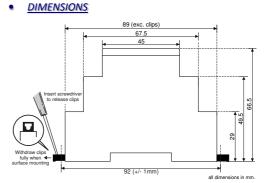
CONNECTION DIAGRAM





Installation work must be carried

out by qualified personnel.



EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m

80MHz - 2.7GHz)

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