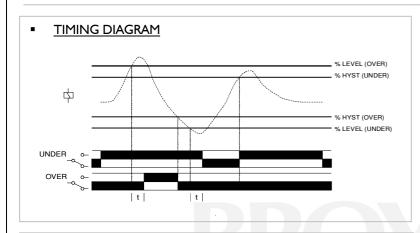
Type: 70 CVR Under/Over Voltage Relay

The unit is designed to monitor a single phase supply for an under or over voltage condition. The Under Voltage relay de-energises when the monitored supply drops below the adjustable trip point. The relay re-energises when the supply rises above the trip point plus the hysteresis. The Over Voltage relay energises when the monitored supply rises above the adjustable trip point. The relay will de-energise when the supply drops below the trip point minus the hysteresis. A green 'aux.' LED indicates the supply is present whilst a red LED (one for each relay) indicates the relay is energised.

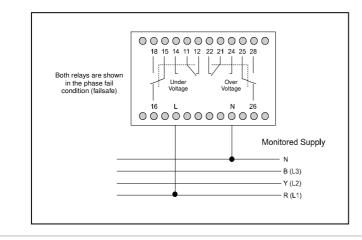


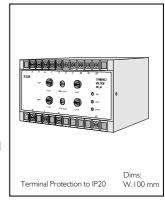
INSTALLATION AND SETTING

BEFORE INSTALLATION, ISOLATE THE SUPPLY. Connect the supply as shown in diagram below. Apply power and the green 'aux.' LED should illuminate. If the supply is at the nominal voltage (Un) then the Under Voltage relay will energise and the red 'under' LED illuminate. The Over Voltage relay should remain de-energised and the red 'over' LED extinguished. If the green LED illuminates but the relays operate differently to that described above at power on, then check all connections and voltages present.

Set the **'% level'** and the **'% hyst'** adjustment on both levels as required. If large supply variations are anticipated and acceptable, the settings should be adjusted further to avoid false tripping.

<u>CONNECTION DIAGRAM</u>

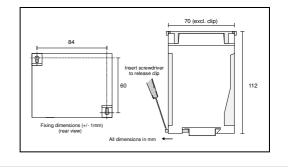




TECHNICAL SPECIFICATION

Supply/Monitored Voltage Un: Supply Variation: Isolation: Overload:	110, 230V AC 45 - 65Hz (Galvanic isolation by transformer) 75 - 125% of Un Over voltage cat. III (IEC 664) 1.5 x Un continuous 2 x Un for 3 seconds
Power Consumption: Trip Level:	≈ 4VA @ Un 75 - 100% Under voltage 100 - 125% Over voltage
Hysteresis:	I to I 5% on both levels (user adjustable)
Repeat Accuracy: Reaction Time (t): Ambient	± 0.5% at constant conditions ≈ 0.2S
Temperature: Relative Humidity: Contact Rating:	-20 to +60°C +95% 2 x DPDT AC I 250V AC 8A (2000VA) AC I 5 250V AC 3A DC I 25V DC 8A (200W)
Electrical Life: Housing: Weight: Mounting Option:	Minimum 150,000 ops at rated load Grey flame retardant UL94 VO 480g approx. Onto 35mm symmetric DIN rail to BS5584:1978 (EN50 002, DIN 46277-3) Or direct surface mounting via 2 x M3.5 or 4BA screws using the fixing slots provided on the unit
Terminal Conductor Size:	Max 2 x 2.5mm ² solid or stranded
Approvals:	Conforms to: UL, CUL, CSA, IEC <i>(</i> Compliant

MOUNTING DETAILS



Broyce Control Ltd., Pool Street, Wolverhampton, West Midlands WV2 4HN. England 70CVR-D1999-07-22 Telephone: +44 (0) 1902 773746 Facsimile: +44 (0) 1902 420639 Email: sales@broycecontrol.com The information provided in this literature is believed to be accurate (subject to change without prior notice); however, use of such information shall be entirely at the user's own risk.