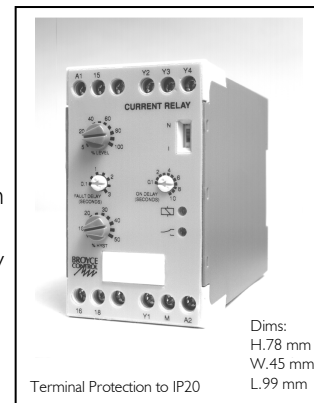


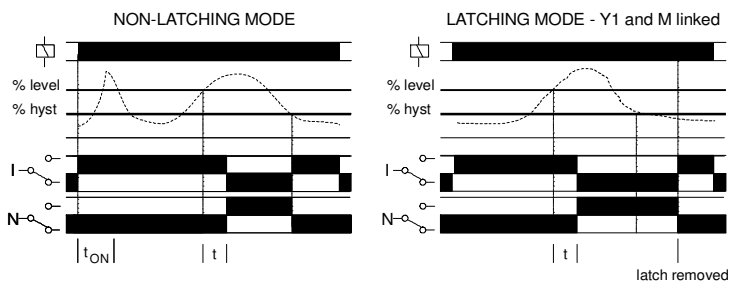
Type: 45150

Current Relay

The unit is designed to monitor an AC or DC current taken by a load. When the supply is switched on the green "supply on" LED will illuminate. As the current being monitored reaches the level set on the front of the unit, the relay will change state after the set time delay. If the monitored current falls below the set level minus the hysteresis, the relay changes state instantly. When Y1 and M are linked together, the unit remains latched until the link or supply is removed. The unit incorporates an adjustable on delay to ignore motor start up currents.



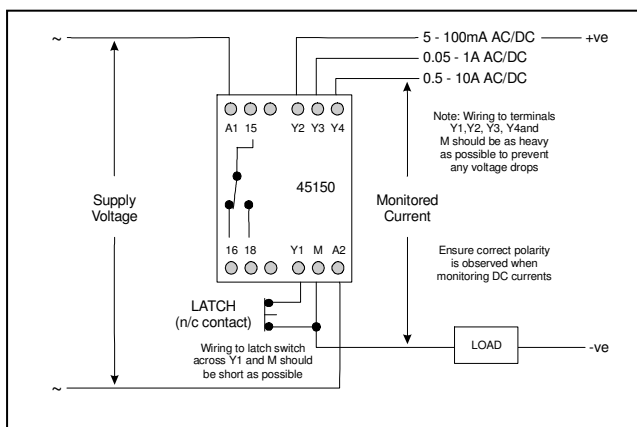
TIMING DIAGRAM



INSTALLATION AND SETTING

BEFORE INSTALLATION, ISOLATE THE SUPPLY. Connect the supply as shown in the diagram below. Connect the monitored input across 'M' and 'Y2', 'Y3' or 'Y4' depending on the required range in line (series) with the load. Apply power and the green 'supply on' LED should illuminate. If the current is below the set level, the relay will be de-energised (red 'relay' LED extinguished) if the switch is in the 'N' (normal) position or energised (red LED illuminated) in the 'I' position. If this does not occur check the wiring to the unit. Set the required '% level', '% hysteresis', 'fault delay' and 'on delay' using the front mounted adjustments. If the latching facility is required, connect a link or normally closed push button across terminals 'Y1' and 'M'

CONNECTION DIAGRAM



TECHNICAL SPECIFICATION

Supply Voltage U_n : 24V, 110V, 230V AC 48 - 63Hz
(Galvanic isolation by transformer)
Supply Variation: 85 - 115% of U_n
Isolation: Overvoltage cat. III (IEC 664)

Power Consumption: 3VA maximum
Monitored Current: Y2: 5 - 100mA AC/DC ($\pm 10\%$)
1.5A continuous O/L, 5A for 1 sec
Y3: 0.05 - 1A AC/DC ($\pm 10\%$)
6A continuous O/L, 17A for 1 sec
Y4: 0.5 - 10A AC/DC ($\pm 10\%$)
15A continuous O/L, 55A for 1 sec

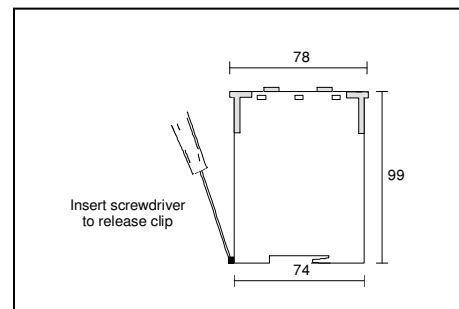
Hysteresis: 5 to 50%
Time Delay (t): 0.1 to 3 seconds ($\pm 20\%$)
(from fault)
On Delay (t_{ON}) 0.1 to 10 seconds ($\pm 20\%$)
(@ power on)
Reset Time $\approx 200\text{ms}$

Temperature Range: -20 to +60°C
Relative Humidity: +95%
Contact Rating: SPDT
AC I 250V AC 10A (2500VA)
AC 15 250V AC 6A
DC I 25V DC 10A (250W)

Electrical Life: Minimum 150,000 ops at rated load
Housing: Orange flame retardant UL94 VO
Weight: 251g approx.
Mounting Option: Onto 35mm symmetric DIN rail to BS5584:1978 (ENSO 002, DIN 46277-3)

Terminal Conductor Size: Max 2 x 1.5mm² stranded (terminated)
Max 2 x 2.5mm² solid
Approvals: Conforms to: UL, CUL, CSA, IEC.
CE Compliant

MOUNTING DETAILS



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45150-C990120

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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.