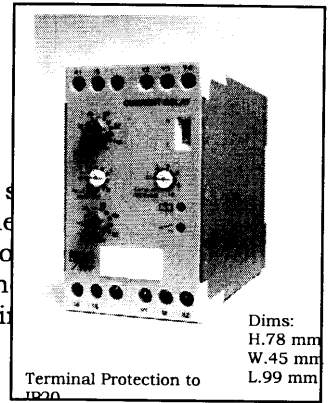


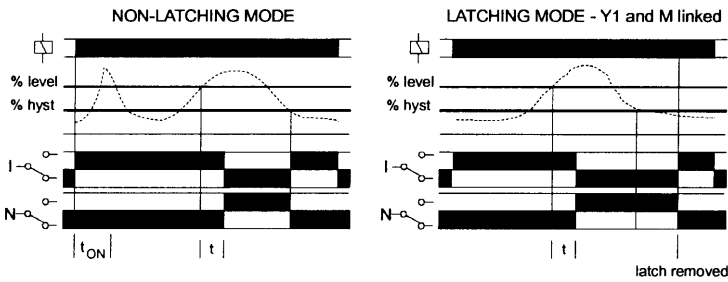
Type: 45150

Current Relay

The unit is designed to monitor an AC or DC current taken by a load. When the supply is on, the green "supply on" LED will illuminate. As the current being monitored reaches the set level, 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 is adjustable on delay to ignore motor start up currents.

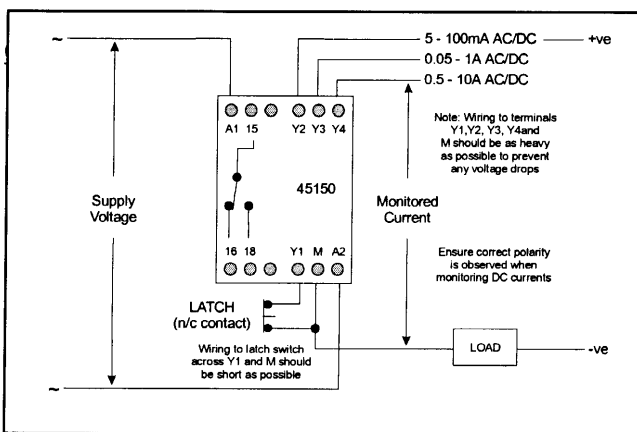


TIMING DIAGRAM



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'



TECHNICAL SPECIFICATION

Supply Voltage Un:	24V, 110V, 230V AC
	48 - 63Hz
	(Galvanic isolation by transformer)
Supply Variation:	85 - 115% of Un
Isolation:	Overtoltage cat. III
(IEC 664)	
Power	
Consumption:	3VA maximum
Monitored Current:	Y2: 5 - 100mA AC/DC
(± 10%)	
	1.5A continuous O/L, 5A for 1 sec
	Y3: 0.05 - 1A AC/DC (± 10%)
	6A continuous O/L, 17A for 1 sec
	Y4: 0.5 - 10A AC/DC (± 10%)
	15A continuous O/L, 55A for 1 sec
Hysteresis:	5 to 50%
Time Delay (t):	0.1 to 3 seconds (± 20%)
(from fault)	
On Delay (t _{ON})	0.1 to 10 seconds (± 20%)
(@ power on)	
Reset Time	≈ 200ms
Temperature	
Range:	-20 to +60°C
Relative Humidity:	+95%
Contact Rating:	SPDT
	AC 1 250V AC 10A
(2500VA)	
	AC 15 250V AC 6A
	DC 1 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 BS5587:1978 (ENSO 002, DIN 46277-3)
Terminal Conductor Size:	Max 2 x 1.5mm ² stranded (terminated to release clip)
	Max 2 x 2.5mm ² solid
Approvals:	Conforms to UL, CUL, CSA, IEC
	CE Compliant

MOUNTING DETAILS

Broyce Control Ltd., Pool Street, Wolverhampton, West Midlands WV2 4HN. England

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.

45150-