CROUZET

1 PHASE OVER/UNDER CURRENT RELAY HIL, HIH

84871130
HIH CURRENT CONTROL RELAY

- Two models: HIL 2 mA-500 mA, HIH 0.1 A-10 A
- Galvanic isolation control/measurement
- Automatic detection of ac or dc
- 35 mm cabinet with DIN rail

PRODUCT DESCRIPTION

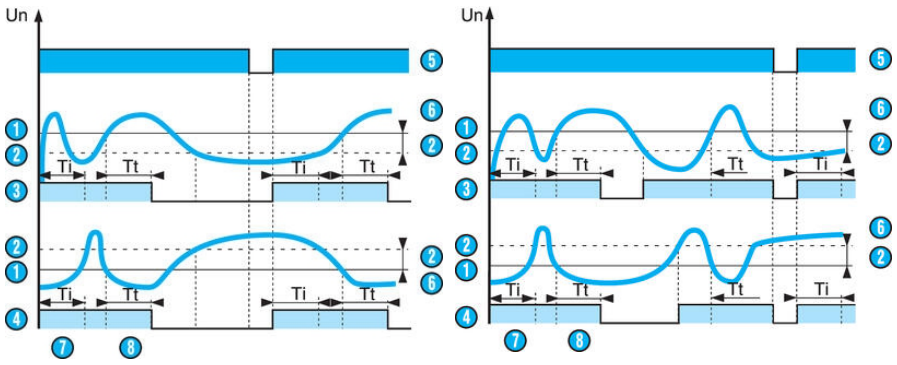
HIL and HIH control relays are used for monitoring 1-phase AC/DC currents. The relay automatically detects the form of current that is to be measured. The relay requires a supply voltage. Using a rotary switch, selection can be made between over- or under-current, with or without memory.If “with memory” is selected, the supply voltage to the relay must be switched off to restart. The switch position and consequently the control relay's function mode is detected when the operating voltage is switched on. If the switch is in the wrong position, the relay will remain deactivated and the LEDs will flash to indicate incorrect setting. If the switch position is changed during operation, all LEDs begin to flash but the unit will continue to function normally with the function that was set at the most recent power connection. The LEDs return to normal function when the switch has been returned to its original position, which was set before the first power connection. The limit value for over- and under-current is set with a potentiometer that is scaled in the percentage of the current range that is to be monitored. The hysteresis value is similarly set with a scale from 5-50 % of the set limit value. The hysteresis value cannot exceed the measurement range's limit value. Both relays are equipped with a time delay (Tt) to ignore temporary current deviations. HIL and HIH also have a time delay upon start-up (Tt), adjustable between 1-20 s to avoid current peaks or current dips upon start-up. If the current should exceed 10 A, a current transformer can be used. Green LED (Un) indicates supply voltage OK. Yellow LED (R) indicates active relay output.

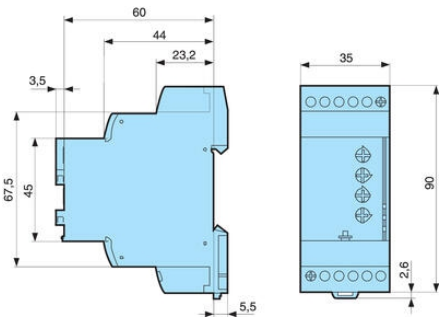
SPECIFICATIONS

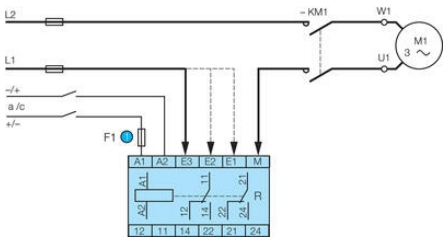
Mounting	DIN rail
IP Class Housing	IP30
Breaking capacity	5A, 250V AC/DC
Measuring range E3-M	1-10A
Temperature range bearing, from	-30 °C
Time Delay On Crossing The Threshold	0,1-3s
Temperature range to	50 °C
Weight	130 g
E3-M max. continuous current in 25°C	11 A

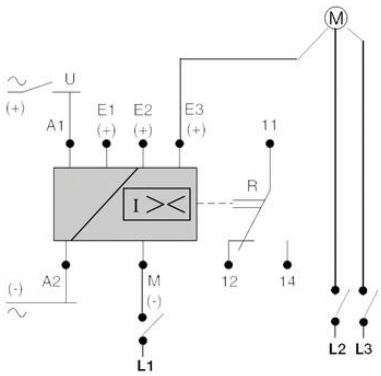
E2-M max. current <1s at 25°C	20 A
Time Delay Start	1-20s
Temperature range bearing, to	70 °C
Temperature range from	-20 °C
Measuring range E1-M	0,1-1A
E3-M max. current <1s at 25°C	50 A
E1-M max. current <1s at 25°C	17 A
IP Class Connection	IP20
Output	Relay 2 pole C/O
E2-M max. continuous current in 25°C	11 A
E1-M max. continuous current in 25°C	2 A
Approvals	CE, CSA, RoHS, UL
Supply voltage	24-240V ac/dc
Measuring range E2-M	0,5-5A

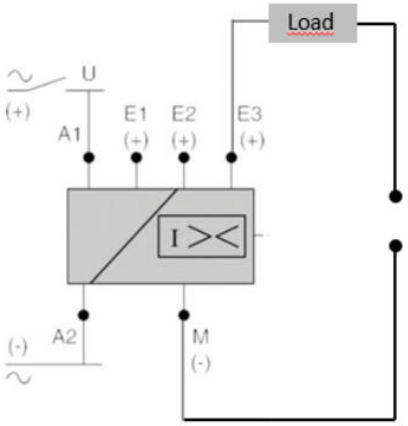
Threshold Adjustable from	10 %
Threshold Adjustable to	100 %

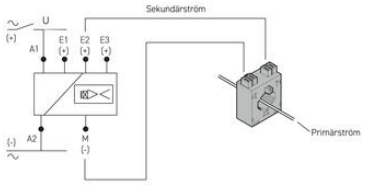











Sekundärström
U
(+)
A1
E1
(+)
E2
(+)
E3
(+)
(-)
A2
M
(-)
Primärström