MODEL: ALCT

Limit Alarms (rotary switch adj.) AL-UNIT

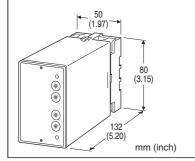
CT ALARM

Functions & Features

- Providing SPDT relay outputs at preset AC current levels from a CT
- True RMS sensing
- Dual (Hi/Lo) trip
- CT Protector provided for open-circuit protection
- Energized or de-energized coil at a tripped condition selectable
- Rotary switch setpoint adjustments
- · Enclosed relays
- Relays can be powered 110 V DC
- High-density mounting

Typical Applications

- Annunciator
- Various alarm applications



MODEL: ALCT-[1][2][3]-[4]

ORDERING INFORMATION

• Code number: ALCT-[1][2][3]-[4]

Specify a code from below for each [1] through [4].

(e.g. ALCT-111-B)

[1] INPUT

Current

1: 0 - 1 A AC

5: 0 - 5 A AC

[2] SETPOINT 1 OUTPUT

1: Hi (coil energized at alarm)

2: Hi (coil de-energized at alarm)

3: Lo (coil energized at alarm)

4: Lo (coil de-energized at alarm)

[3] SETPOINT 2 OUTPUT

1: Hi (coil energized at alarm)

2: Hi (coil de-energized at alarm)

3: Lo (coil energized at alarm)

4: Lo (coil de-energized at alarm)

[4] POWER INPUT

AC Power

B: 100 V AC

C: 110 V AC

D: 115 V AC

F: 120 V AC

G: 200 V AC

H: 220 V AC

J: 240 V AC

DC Power

S: 12 V DC

R: 24 V DC

V: 48 V DC

P: 110 V DC

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3.5 screw terminals

Housing material: Flame-resistant resin (black) Isolation: Input to output 1 to output 2 to power Input waveform: Up to 15 % of 3rd harmonic content Setpoint adjustments: 10-position rotary switches (front); 0

- 99 % independently; 1 % increments Hysteresis (deadband): 0.7 - 2.5 %

Front LEDs: Red lights turn on when the coils are energized. Power ON timer: Relays de-energized for approx. 2 seconds

after power is turned on.

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Input burden: 0.5 VA maximum

Overload capacity: 500 % of rating for 5 sec., 120 %

continuous

Operational range: 0 - 100 % of rating

OUTPUT SPECIFICATIONS

Relay Contact: 100 V AC @ 1 A ($\cos \emptyset = 1$)

120 V AC @ 1 A $(\cos \emptyset = 1)$ 240 V AC @ 0.5 A (cos $\emptyset = 1$) 30 V DC @ 1 A (resistive load)

Maximum switching voltage: 380 V AC or 125 V DC Maximum switching power: 120 VA or 30 W

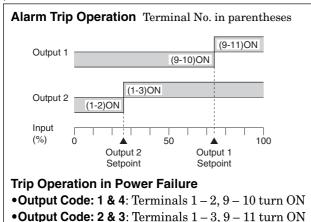
Minimum load: 5 V DC @ 10 mA **Mechanical life**: 5 x 10⁷ cycles



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MODEL: ALCT

For maximum relay life with inductive loads, external protection is recommended.



INSTALLATION

Power input

•AC: Operational voltage range: rating ±10 %,

50/60 ±2 Hz, approx. 2 VA

•DC: Operational voltage range: rating ±10 %, or 85 - 150 V

for 110 V rating (ripple 10 % p-p max.)

Approx. 2 W (80 mA at 24 V)

Operating temperature: -5 to +60°C (23 to 140°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface or DIN rail **Weight**: 370 g (0.82 lbs)

PERFORMANCE in percentage of span

Setpoint accuracy: $\pm 0.9 \%$ Trip point repeatability: $\pm 0.05 \%$

Temp. coefficient: ±0.02 %/°C (±0.01 %/°F)

Response time: Approx. 0.7 sec. (0 – 100 % at 90 %

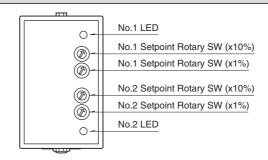
setpoint)

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength: 2000 V AC @1 minute (input to output 1

to output 2 to power to ground)

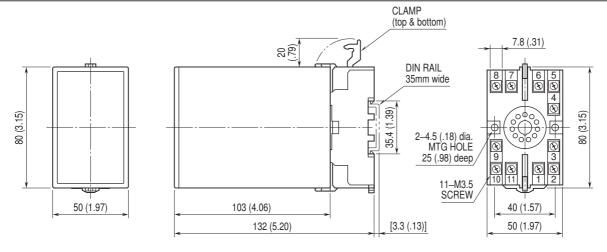
EXTERNAL VIEW



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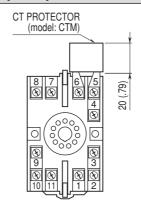
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DIMENSIONS unit: mm (inch)

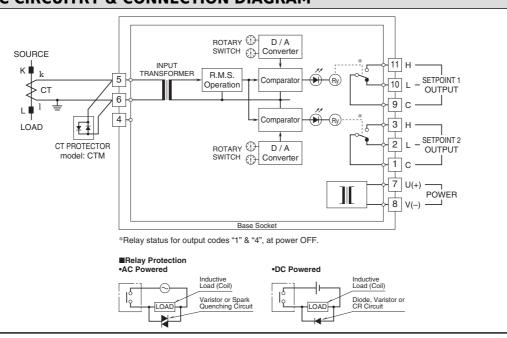


[·] When mounting, no extra space is needed between units.

TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





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MODEL: ALCT

Specifications are subject to change without notice.