

Overcurrent alarm

With external sensor, Overcurrent alarm, corresponding type to high current, 0.5A ~ 20A programmable system

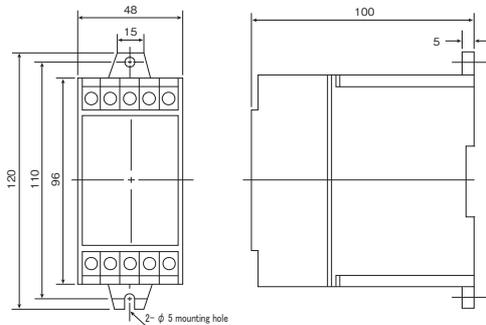


Model CRY-DLX

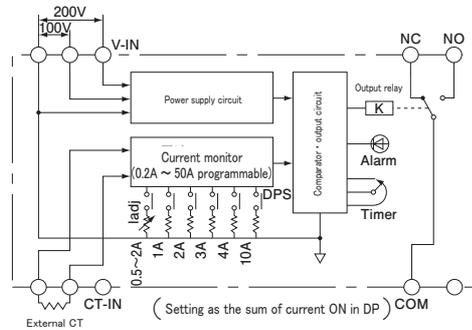
[Feature]

- Overcurrent alarm to detect over load of motor, partial short of heater, and each type of abnormality of electronics
- With unnecessary structure for external control power supply, corresponding type to small current with external sensor
- Possible to be common for power supply with 100V/200V tap
- Possible to detect precise over load with 0.5A ~ 20A programmable system for operating point
- Preventing malfunction with dead zone timer until current settling, toward motor starting current, and starting up mode of transformer magnetizing inrush current and so on.
- There is LED for operating display, so easy to set operating point
- Alarm output is 1 transfer contact without voltage.
- External CT type compatible with standard product build in CT (CRY-DP)

[Outline drawing]



[Connection]



[Specification] Ta=25°C

Model	CRY-DLX
Power supply	Common use of AC100V/200V, 50/60Hz (Choice of voltage terminal)
Set up current	0.5A ~ 20A (Possible to set as the sum of current ON in 6 bits DPS)
Accuracy	Set up current $\pm 5\%$
Accessory current sensor	CTL-12-S30-10Z (max primary current 250A continuous) with receptacle
Operational hysteresis range	Recovery with set up current -5%
Dead zone timer	Possible to set in the range of 0.1s ~ 10s after power ON (Timer)
Output specification	Relay contact output (AC125V/0.5A、DC24V/1A $\cos \phi = 1$)
Response time	100ms (More than 0 \rightarrow Set up current $\times 1.2$, and after operation of dead zone timer) (typ)
Operating temperature	$-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$, no condensation
Screw torque	M4 : 0.7N · m、M3 : 0.3N · m
Mass	Body approximately 220g, accessory CT approximately 55g

[Remark]

- (1) Possible to set operating point roughly by 1A step in the range of 1A ~ 20A with dip switch
- (2) For detail setting less than setting resolution 2A, please use dip switch of Iadj (0.5A ~ 2A) together
- (3) For setting operating point in the status of actual operation, it will be stable operation with enough margin, by the value of around $+10\%$ of set up current
- (4) In the case to apply split sensor, please select current ratio (such as 200A/0.2A) with CTL-CL series (easy order product) or CTL-16-CLS 1000turns version (Built-to order manufacturing)
- (5) For corresponding to thick wire, compatible characteristic with same current ratio large aperture sensor (CTL-24-S28-10Z)
- (6) For 3 phase load, it will be one phase simple monitor with contacting V-IN to between R-S, CT-IN to sensor penetrated by R phase
- (7) **Circuit is power supply non isolation system. Don't earth CT terminal absolutely.**
- (8) Impossible to use for secondary of inverter
- (9) For sine wave current. Operating point to be changed by distorted current waveform
- (10) No function of self-holding