

General

DAKR-03 Auto-reset overload protection relay are designed to prevent loads from being damaged due to Overload.

Usage and Working Principle of the Device

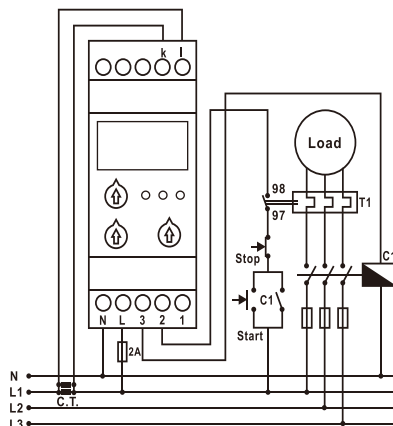
Make the connection of the device in accordance with the connection type. After making the connections, energize the device. Make the device settings according to the minimum operating current of the load you will use. You can set C.T ratio setting with the "...x5" knob, set under-current setting with the "A" knob, the error waiting time with the "T" knob.

When the device is energized, the relay is energized, the contact output switches to terminal 3 and the OUT led turns on. When the start button is pressed, the contactor is energized, if the current consumed is high than the set current value, the A> LED turns on, wait for the error time setting to end, the OUT LED turns off, then the device relay is disconnected and the contactor is powered off. To power cycle the contactor, the start button must be pressed again.

When the contactor is energized, the contactor is de-energized by pressing the stop button when it is desired to be-energized.

In order to protect the device in the system from under-current, it is recommended to connect an under-current relay to the circuit.

Connection Diagram



Settings on the device

T knob: Sets the overload fault waiting time.

...x5 knob: Set the C.T ratio(MAX 250A).

A knob: Set the overload rated.

Example: If the overload value to be adjusted is 75A, delay time 10 seconds and the current transformer used is 150/5A.

Set C.T ratio "...5A" knob to 150, set overload "A" knob to 75, set "T" knob to 10.

Technical Specifications

Operating Voltage :150-260V AC 50/60Hz.

Current Set. Range :0.5A-250A AC

Input (k-I) :X/5A Current Transformer (MAX250/5A)

Delay Time (Waiting):0.1 sec.-20 sec.

Operating Power :<6VA

Operating Temp :-20°C... +55°C

Display :1x3 digit, 3xLEDs

Connection Type :Terminal connection.

Mounting :Assembled on the din rail.

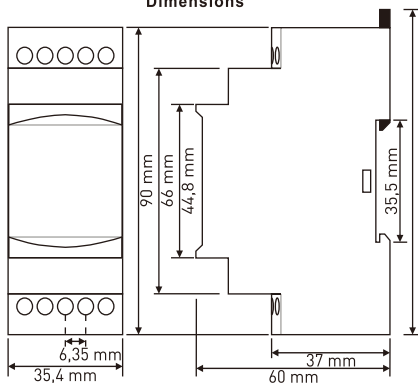
Weight :0.11 kg.

Contact :5A 250VAC Resistive Load

Operating Altitude :<2000m

Cable Diameter :2,5mm²

Dimensions



Device Maintenance

Switch off the device and release from connections. Clean the trunk of device with a swab. Don't use any conductor or chemical might damage the device. Make sure device works after cleaning.

Warning

- Please use the device according to the manual.
- Don't use the device in wet.
- Include a switch and circuit breaker in the assembly.
- Put the switch and circuit breaker nearby the device, operator can reach easily.
- Mark the switch and circuit breaker as releasing connection for device.