

**Control output:**

Relay connects or disconnects when :

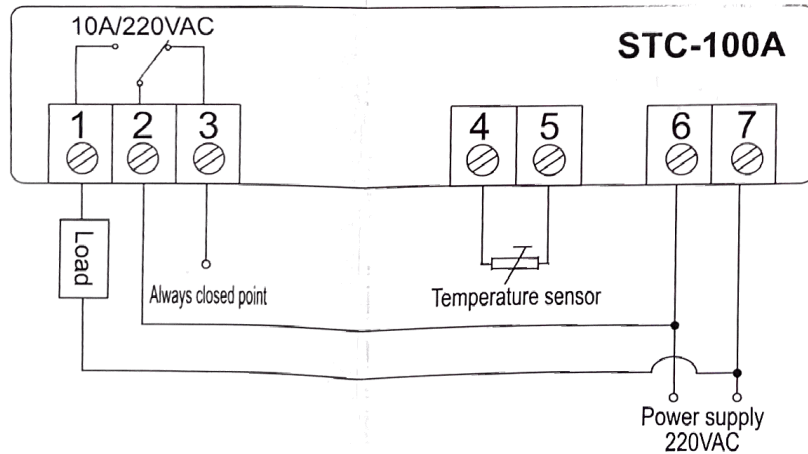
- When working mode is set as "Refrigerating", the relay connects if the measuring temperature is above or equal to the setting temp. value plus the difference value; and relay disconnects when measuring temp. value is below or equal to the setting temp. value.
- When working mode is set as "Heating", the relay will connect if the measuring temp. value is below or equal to the setting temp. value; the relay will disconnect when the measuring temperature is above or equal to the setting temp. value plus the difference value.
- LED displays "HH" when temperature is between +99°C ~ + 120°C; LED displays "EE" and system close the output when sensor error. The controller can restart up or close only when the control output delay time is running out.

**Menu instruction:**

Menu code	Menu function	Setting range	Unit	Default
HC	Controller working mode optional C: refrigerating H: heating	C ~ H	none	C
d	Temperature control return deference	1 ~ 15	°C	5
LS	Temperature setting min. value	-40 ~ SP	°C	-40
HS	Temperature setting max. value	SP ~ 99	°C	70
CA	Temperature calibration value	-7 ~ +7	°C	0
Pt	Control output protection time	0 ~ 7	minute	1
SP	Temperature setting value	LS ~ HS	°C	-40

Note: the parameter "SP"(temperature setting value) won't appear in the menu.

**Wiring diagram:**



**Error information:**

Error code	Error analysis	Response way
Er	It occurs to error during the memory process	----
EE	Sensor error	Close control output
HH	Temperature exceeds setting display range	----

**Safety rule:**

★Danger:

Please strictly distinguish the connections of relay, sensor and power. Make sure the relay is not overload.

All the wire connection must be operated under the power off status.

★Warning :

Prohibit to use the controller under the circumstances such as :over moisture, over high temperature, strong electromagnetic interference, strong corrosion.

★Notice:

Make sure the voltage confirm to the marking on the machine and the power supply steady. It is advised to keep proper distance between sensor leads and power supply wire to avoid possible interference.

**Appendix1: Character set:**

