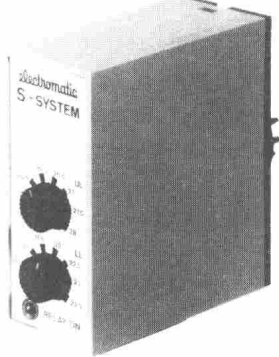


SJJ 195



SJJ 195
2 built-in
potentiometers

- * AC voltage metering relay.
- * Measures on own supply voltage.
- * Measuring ranges: 20-28 VAC, 100-140 VAC, or 180-260 VAC.
- * Hysteresis: App. 1%.
- * Upper and lower limits separately adjusted.
- * Can be used in conjunction with analogue panel indicator type SJ 093.
- * 10 A SPDT output relay.
- * LED-indication for relay on.
- * AC supply voltage.

SPECIFICATIONS

Common technical data and ordering key
Pages 10-12.

Hysteresis

The hysteresis in relation to the measuring voltage is app. - 1 % for the upper trip point and app. + 1 % for the lower trip point.

Adjustment

Top potentiometer:
Adjustment of upper limit.
Absolute scale in volts.

Bottom potentiometer:
Adjustment of lower limit.
Absolute scale in volts.

Accessories

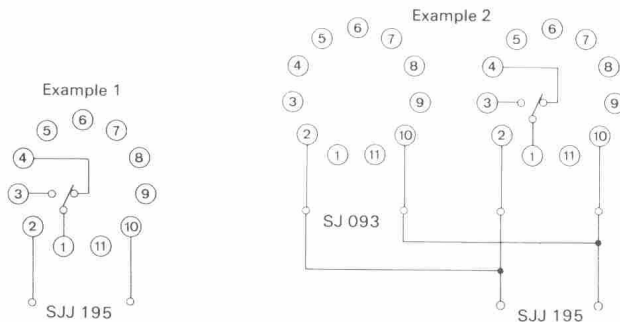
Bases.
Hold down spring.
Mounting rack.
Base covers.
Front mounting bezel.

Ranges of measurement

Type	Measuring range	Lower limit	Upper limit
SJJ 195 024	20- 28 VAC	20- 23.5 VAC	24.5- 28 VAC
SJJ 195 120	100-140 VAC	100-118 VAC	122 -140 VAC
SJJ 195 220	180-260 VAC	180-217 VAC	223 -260 VAC

The measuring range equals the r.m.s. value of a sinusoidal voltage.

WIRING DIAGRAMS



MODE OF OPERATION

The SJJ 195 measures the average of its own sinusoidal supply voltage and converts it into r.m.s.-value. It is thus the r.m.s.-value which is set on the built-in potentiometers.

The relay stays on as long as the value of the measured supply voltage is between a lower and an upper limit. The two limits are separately adjusted.

If the supply voltage rises above the upper limit or drops below the lower limit, the relay releases. The relay operates again, when the voltage is inside the set limits.
Hysteresis on operate: App. 1%.

Example 1

The relay measures on its own supply voltage.

Example 2

The supply voltage is connected both to voltage metering relay type SJJ 195 and analogue panel indicator type SJ 093. The indicator shows the value of the measured alternating voltage on a columnar LED display, and the voltage metering relay operates, when the value of the measured voltage is between the two limits set on the relay.

OPERATION DIAGRAM

