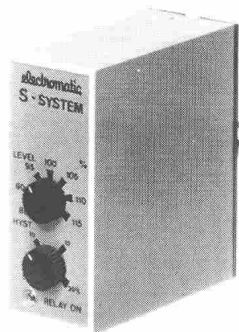


SY 165



SY 165
Knob-adjustable

- * 3-phased metering relay for phase-phase voltages.
- * Controls if all the 3 phase-phase voltages are within a set joint limit.
- * Knob-adjustable trip point.
- * Knob-adjustable hysteresis.
- * Operates irrespective of the phase sequence and meters on its own supply voltage.
- * 10 SPDT output relay.
- * LED-indication for relay on.
- * AC supply voltage.

SPECIFICATIONS

Common technical data and ordering key
Pages 10-12.

Supply-/metering voltage

Between lines (Ph-Ph):
 3 x 220 VAC } ± 15%
 3 x 380 VAC }

Available for 3 x 415 VAC upon request.

Frequency
45-65 Hz.

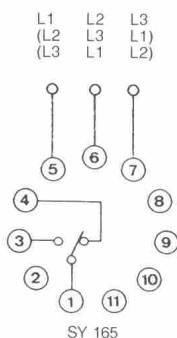
Inputs
Pins 5, 6, 7:
Phase L1, L2, L3.
Any sequence.

Trip point
Knob-adjustable between 85 and 115% of rated phase-phase voltage.
Scale range: -15 to +15%.

Hysteresis
Knob-adjustable hysteresis: 5 to 20%

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

WIRING DIAGRAM

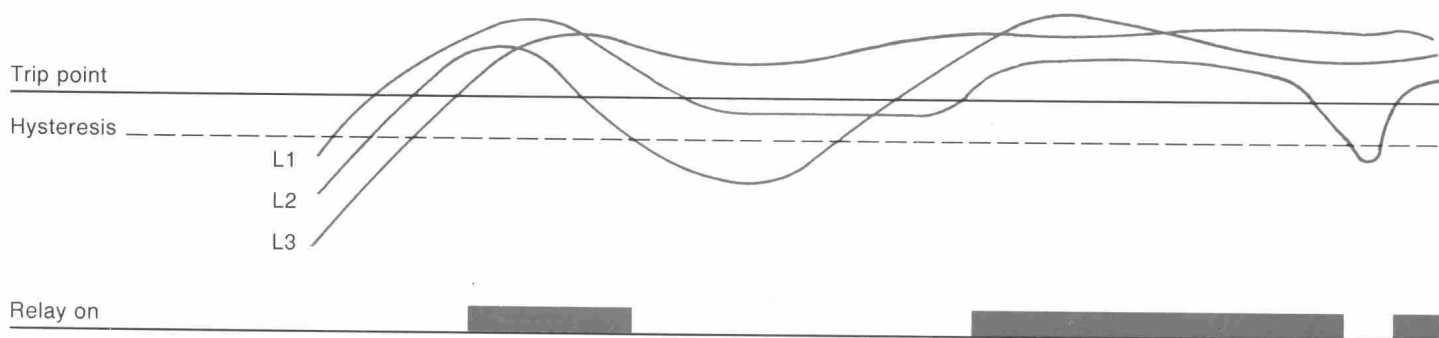


MODE OF OPERATION

The relay meters the phase-phase voltage on all 3 phases. The relay operates when all 3 phase-phase voltages are above the set value.

If one or more phase-phase voltages drop below the adjustable hysteresis, the relay releases within 3 seconds, and it does not operate again until all 3 phase-phase voltages exceed the set trip point.

OPERATION DIAGRAM



Relay on