

RSTB**3-Phase Supply Control Relays****RSTB**

This is designed to monitor 3-phase supplies and to protect motors and other loads against the faults listed below.

- Monitoring of rotational direction of phases
- Detection of complete failure of one or more of the phases
- Undervoltage detection (-10%)
- Overvoltage detection (+10%)
- Detection of phase asymmetry (imbalance) ($\pm 10\%$)

The relay operates if any of the conditions occurs.

The relay releases if any of the conditions fails.

There is a Time Delay between the relay action and the condition occurs (except rotational direction of phases error) to avoid very short interruptions or other momentary failures.

A selector switch allows selection of an adjustable time delay from 0.1 s to 10 s.

When the supply returns towards its rated value, the relay is re-energised according to the hysteresis value (5%)

■ SPECIFICATION

● Output	1 FORM C(SPDT) 10A 250VAC 1/2HP
● Supply voltage	3 Phase AC 50/60Hz 300V-480V can be setted
● Adjustalbe Time Delay	0.1-10 sec
● Mechanical Life	10,000,000 operations.
● Electrical Life	100,000 operations at rated load.
● Ambient Temperature	-10°C to +60°C
● Ambient Humidity	45~85% RH
● Mounting	Directly at DIN rail.
● Weight	Approx. 100g
● Indications	Green LED: indicates relay state. Red LED: overvoltage fault. undervoltage fault. phase asymmetry. phase failure or incorrect rotational direction of phases.

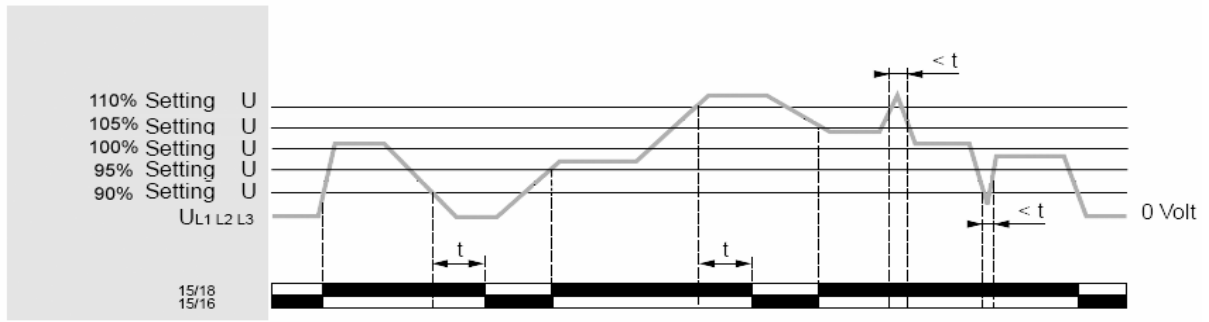
■ OPERATION CHART

Example: asymmetry threshold at 10 %, mains supply voltage 400 V

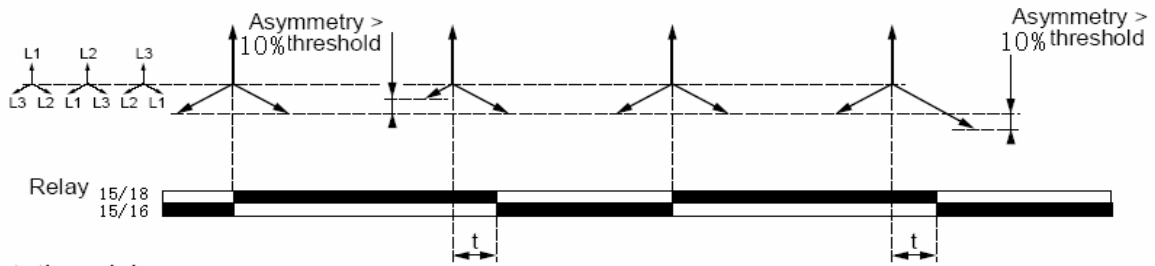
- relay de-energisation threshold: $400V * (1-10\%) = 360 V$.

- relay re-energisation threshold: $400V * (1-5\%) = 380 V$.

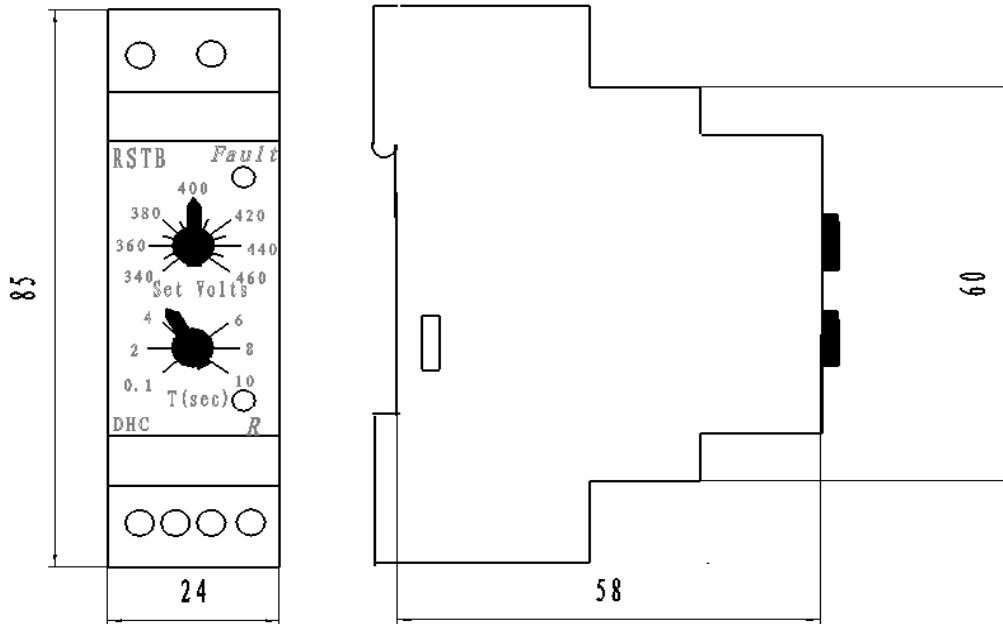
Function diagram



Function diagram



■ MOUNTING & DIMENSION



Connections: Silver alloy. Terminal shrouded to prevent human contact. The supply voltage to be monitored is connected to terminals L1, L2, L3 of the product. Self-powered by terminals L1, L2, L3.

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