

55011 - 30 - 57 - 410

3. FUNCTION

The three phases of the 230/400 V alternating current network are monitored according to the following criteria:

- Direction of rotation
- Undervoltage
- Overvoltage
- Phase failure
- Phase angle
- Frequency
- Asymmetric phase position/voltage position

The limits for undervoltage and overvoltage are fixed (see Technical Data) and relate to the voltage of phase L1-N or L1-L2. The other criteria (except for direction of rotation) can be set together on the control dial. They relate to all three conductors L1, L2 and L3. No distinction is made between the individual criteria. Procedure: If a fault is detected, it is immediately indicated visually.

- The red LED lights up

The alarm delay time (t_{del}) also starts. If the fault has not been eliminated when this time elapses, the alarm is triggered:

- The relay drops out
- The green LED goes out

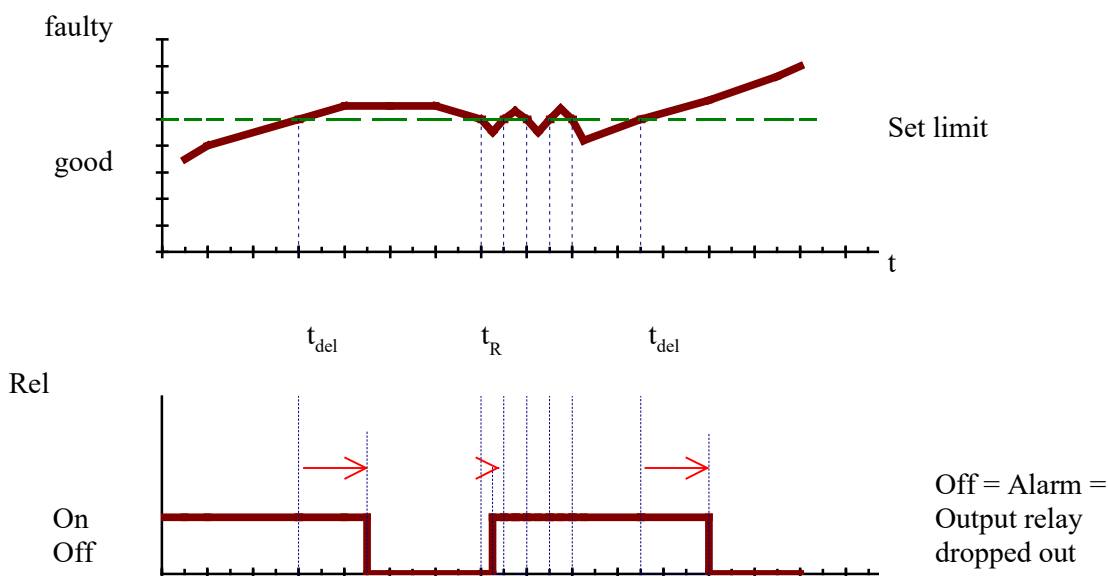
If the measured values then drift back into the ideal range (mains voltage = ok), the visual fault display disappears.

- The red LED goes out

and after about 150 ms the normal state is restored.

- The relay operates
- The green LED lights up

FUNCTION DIAGRAM



Fo-61.01-D-401

Datei: SSU33L_DB_E.DOC

Gez.	Entw.	Gepr.	Reg.	Datum	Ae M	Ausg.	Blatt: 2
	Kp			13.10.93	2308	6	von: 6
				14.1.02		7	M:
An				15.2.06	2763	10	

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Data sheet

SSU33L

Tree-phase monitor

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Gez.	Entw.	Gepr.	Reg.	Datum	Ae M	Ausg.	Blatt: 3
	Kp			13.10.93	2308	6	von: 6
				14.1.02		7	M:
An				15.2.06	2763	10	
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6. OPERATION

Two dials are available for the operator (Δ and t_{del}).

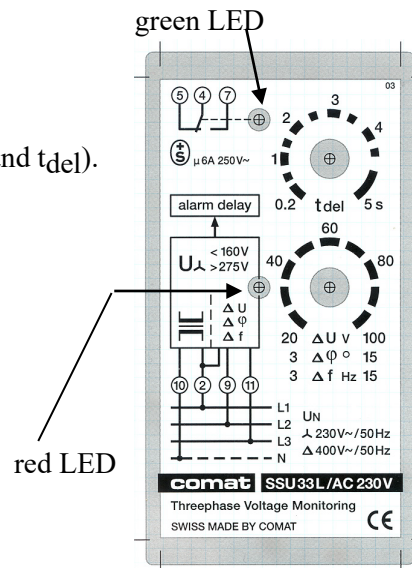
Δ : Sensitivity (U, f, Δ)

t_{del} : Alarm delay time

The red LED indicates a faulty input signal.

The green LED shows the relay state.

It is switched off in the case of an alarm.



7. STANDARDS, APPROVALS

Vibration resistance

IEC 571; 68-2-6-FC

Shock resistance

TW80 (20 g)

Immunity to interference

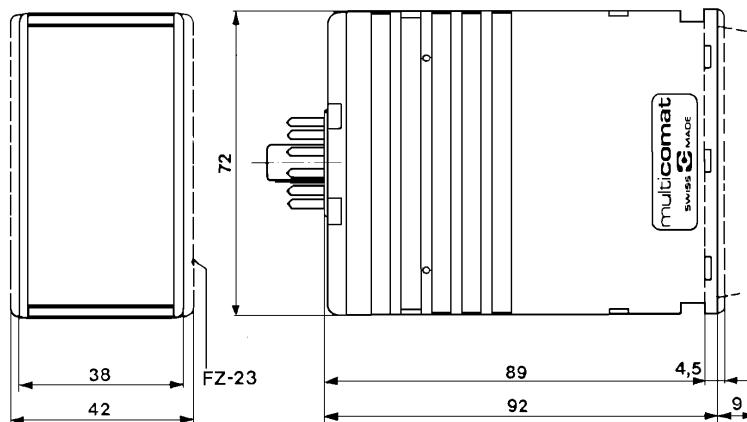
IEC 255.4 Appendix Class III, IEC 801-4

Marking

CE

8. HOUSING, DIMENSIONS

S2 pluggable



Fo-61.01-D-401

Datei: SSU33L_DB_E.DOC

Gez.	Entw.	Gepr.	Reg.	Datum	Ae M	Ausg.	Blatt: 6
	Kp			13.10.93	2308	6	von: 6
				14.1.02		7	M:
An				15.2.06	2763	10	

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