

LIQUID LEVEL CONTROLLER RELAYS

1. INTRODUCTION

SSR type liquid level control relays are designed for the level control of conductive liquids. Charging/discharging of the liquid automatically and systematically from one container or a well to another provided with a very precise level controlling function is one of its most significant characteristic.

2. USAGE

OPERATION WITH THREE ELECTRODES: The relay is switched on when the electrodes are in conductive liquid. The relay keeps switching on even if the liquid level drops under the electrode (Upper Electrode). When the liquid level falls below the electrode (Lower Electrode), the relay switches off and motor stops. The relay is inactive until the liquid level reaches at the electrode (Lower Electrode). The relay switches on when the liquid level reaches at the electrode (Upper Electrode) and motor starts running.

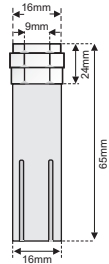
OPERATION WITH TWO ELECTRODES: The bottom electrode is connected to earth and surface of tank whereas other two electrodes (Upper and Lower Electrode) remain in the conductive liquid. This operation is used for earthing systems.

OPERATION WITH SINGLE ELECTRODE: The relay switches on when the liquid level reaches at the electrode. The relay switches off when the liquid level drops below the electrode.

- Earth connection must be ensured for the operations with one electrode and two.
- As per SSR-07S only single electrode is connected provided that the terminal connections of Upper and Lower Electrodes are connected to earthing and surface of tank.
- The upper and lower electrodes of SSR-07S's can be inversely connected to operate if needed.
- Earthing connection must be done according to the standards.

NOTE: Custom-made devices with different standards are specified on their label.

SSE-07 LIQUID LEVEL ELECTRODE



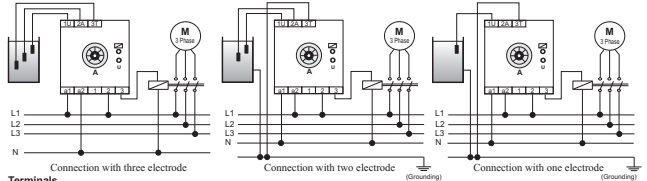
3. USAGE AND SAFETY

- Turn off power during connection/wiring.
- Check correct mains voltage/wiring terminal.
- Installation shall only be performed by qualified personnel.
- Do not use any solvent or alike for cleaning.

5. TECHNICAL SPECIFICATIONS

Model	Un	Operating Range	Contact Output	Electrode Resistance	Dimensions and Connection Diagrams	Mount Type	Protection Class	Plastic Material	Operating Temperature	Weight
SSR-17	220VAC 1Phase + 1Neutral 50-60 Hz	(0,8-1,2)xUn	250VAC-5A	10K ohm - 50K ohm (Adjustment)	a	Rail Mounted	IP 20	V0 Nonflammable	-25°C ... +65°C	220 gr.
SSR-W17		(0,8-1,1)xUn			b					130 gr.
SSR-V17		(0,8-1,2)xUn			c					150 gr.
SSR-07S		(0,8-1,2)xUn		d	15K ohm max.	Socket Mounted				180 gr.

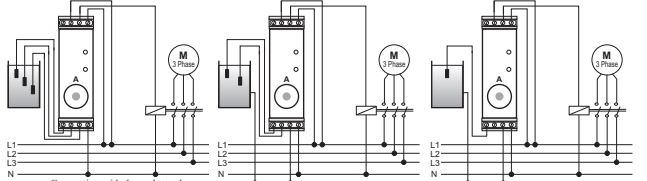
4. MECHANICAL DIMENSIONS AND CONNECTION DIAGRAMS



Terminals
 a1, a2: Supply Voltage
 1 : Normally Close Contact
 2 : Common Contact
 3 : Normally Open Contact
 1U : Upper Electrode Input
 2A : Lower Electrode Input
 3T : Bottom Electrode Input

b) SSR-17

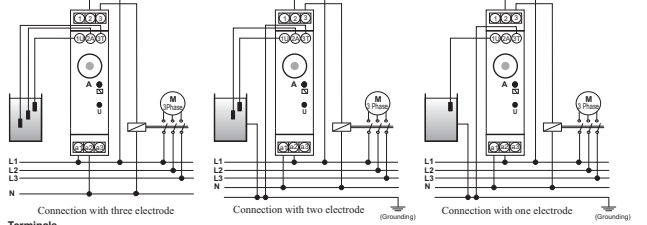
Product Scale Information
 A : Accuracy



Terminals
 4-16: Supply Voltage
 13: Normally Close Contact
 14: Common Contact
 15: Normally Open Contact
 1 : Upper Electrode Input
 2 : Lower Electrode Input
 3 : Bottom Electrode Input

b) SSR-W17

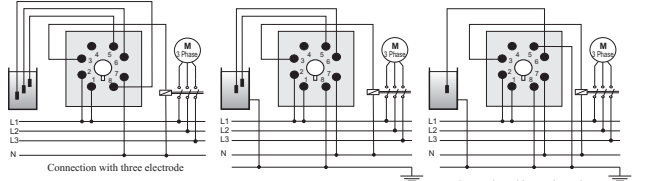
Product Scale Information
 A : Accuracy



Terminals
 a1, a2: Supply Voltage
 1 : Normally Close Contact
 2 : Common Contact
 3 : Normally Open Contact
 1U : Upper Electrode Input
 2A : Lower Electrode Input
 3T : Bottom Electrode Input

c) SSR-V17

Product Scale Information
 A : Accuracy

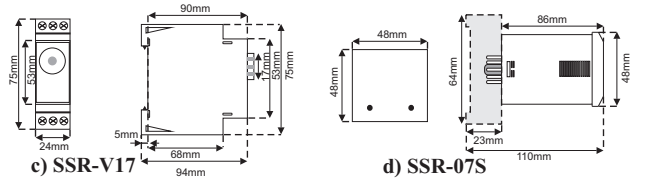
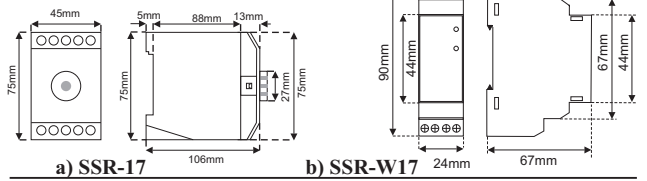


Terminals
 2-7: Supply Voltage
 4: Normally Close Contact
 1: Common Contact
 3: Normally Open Contact
 5: Upper Electrode Input
 6: Lower Electrode Input
 8: Bottom Electrode Input

d) SSR-07S

Product Scale Information
 A : Accuracy

MECHANICAL DIMENSIONS



c) SSR-V17

d) SSR-07S

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