

grup ARGE

SVC Drivers User Manual



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PROPER USE AND SAFETY REQUIREMENTS



Cut all the power when connecting and disconnecting the device to a panel.



Do not clean the device with a solvent or similar material. Only use a dry cloth.



Please do not intervene to the device when a technical problem is encountered and get in contact with a technical service within the shortest time.



If the warnings are not taken into account, our company or the authorized dealer shall not be held responsible for the negative consequences.



Do not dispose in the trash, the device must be delivered to the collection centers (electronic device recycling centers). It should be recycled or disposed of without harming human health and environment.



The installation, assembly, activation and operation of the device should be done and used by only expert professionals and in accordance with safety regulations and instructions.



The device operates with current transformers. Do not strictly leave current transformer tips unattached. Dangerous high voltage can occur.

SVC DRIVER SELECTION

| SVC DRIVER | Rated Operating Voltage | Frequency | Connectable Shunt Reactors (230 V) | Rated Fuse Current (A) * | Minimum Cable Cross Section (mm ²) | Maximum Inductive Load | Rated Operating Current (I _{rms}) | Control Voltage (V DC) | Operating Ambient Temperature (°C) | Size (Width-Length-Depth) |
|--------------------|-------------------------|-----------|------------------------------------|--------------------------|--|------------------------|---|------------------------|------------------------------------|---------------------------|
| SVC 5 (GA2101) | 230 V | 50 Hz | SRM 1,0 | 10 | 2,5 | 3 x 1,6 kVAr | 7,2 A | 12 V | (-10 — +55) | 103 x 83 x 101 |
| | | | SRM 1,5 | 16 | 2,5 | | | | | |
| SVC 10 (GA2102) | 230 V | 50 Hz | SRM 3,0 | 25 | 4 | 3 x 3,3 kVAr | 14,4 A | 12 V | (-10 — +55) | 106 x 83 x 150 |
| SVC 20 (GA2103) | 230 V | 50 Hz | SRM 5,0 | 40 | 6 | 3 x 7.5 kVAr | 33 A | 12 V | (-10 — +55) | 165 x 134 x 160 |
| | | | SRM 7,5 | 63 | 10 | | | | | |
| SVC 30 (GA2104) | 230 V | 50 Hz | SRM 10,0 | 80 | 16 | 3 x 10 kVAr | 43,3 A | 12 V | (-10 — +55) | 165 x 144 x 200 |

*NH fuse or type C automatic fuse must be used.

2. CONNECTION DIAGRAM

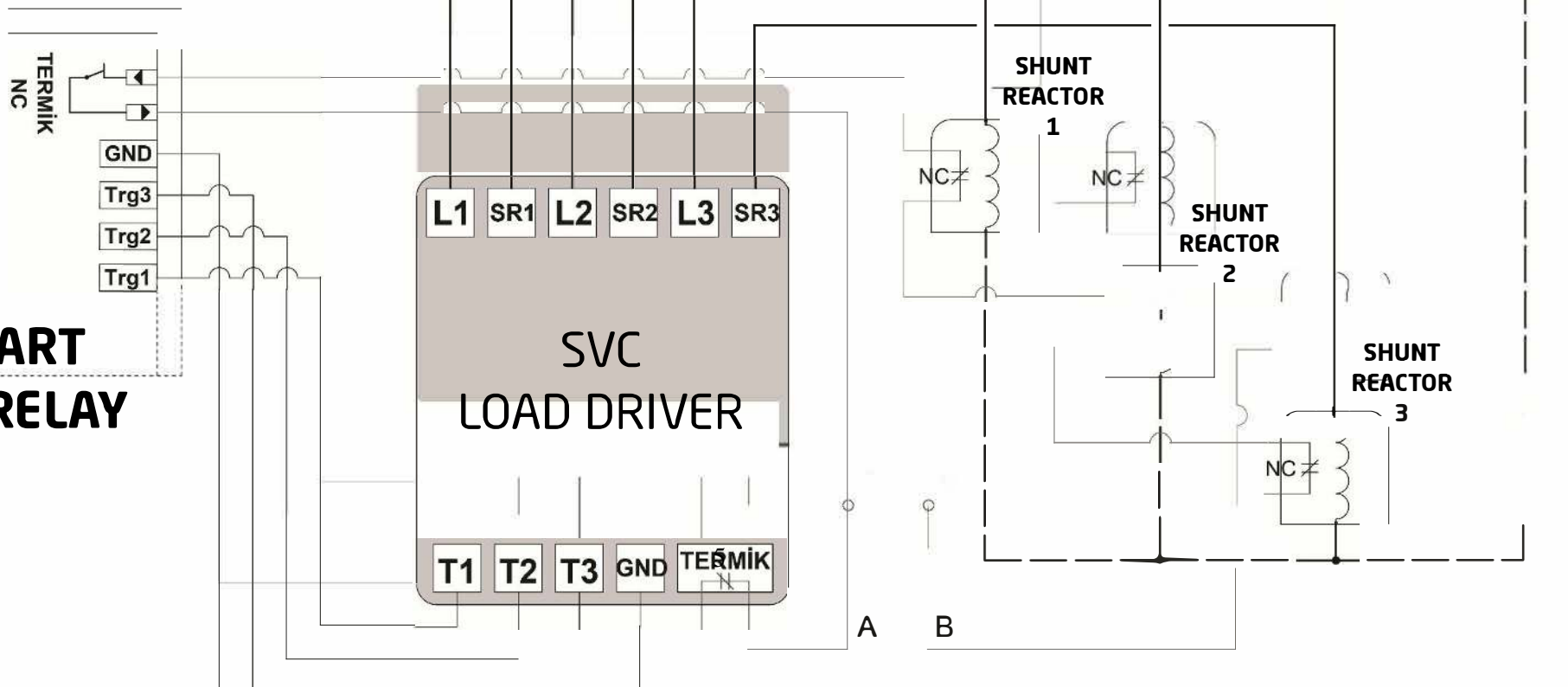
L1
L2
L3
N

NOTE: In order to get high efficiency from natural air cooling in SVC drivers, the panel should be installed vertically with phase input and output above. In this case, the trigger signals from the relay will be connected to the control inputs on the lower edge of the driver. On the SVC 20 and SVC 30 models, when the installation is done correctly, the corresponding indicator LED in the lower left corner will light

The thermal terminal is only available on the SVC 20 and SVC 30 models. The SVC 5 and SVC 10 models do not require thermal control since they are not needed. When SVC 5 and SVC 10 are used, it is sufficient to short circuit points A and B in the diagram.

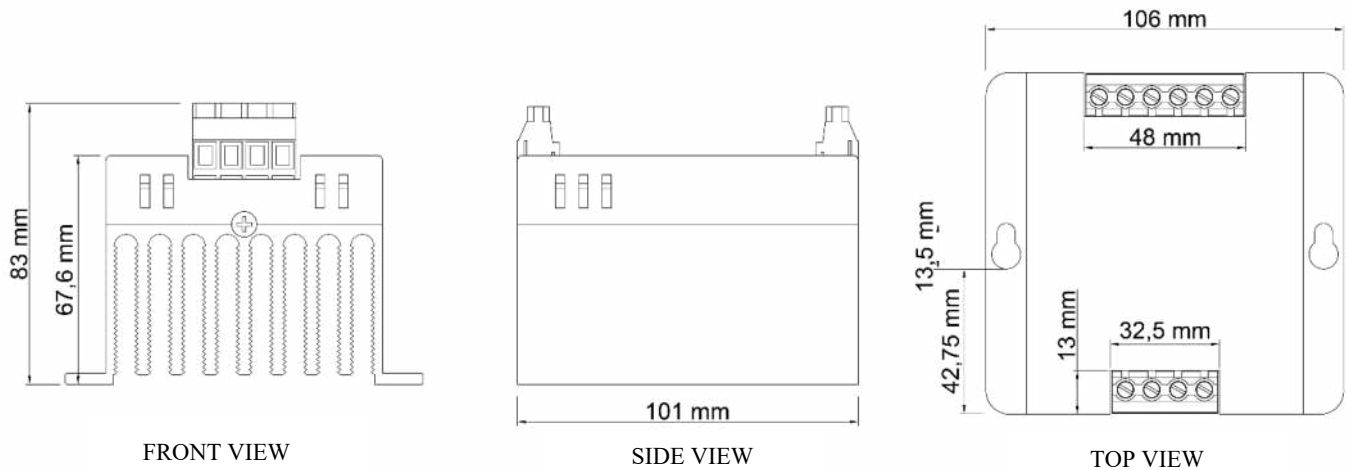
(*) For the recommended fuse current and cable cross-section, please refer to the rated operating current value in the table corresponding to the product you have selected.

**SMART
SVC RELAY**

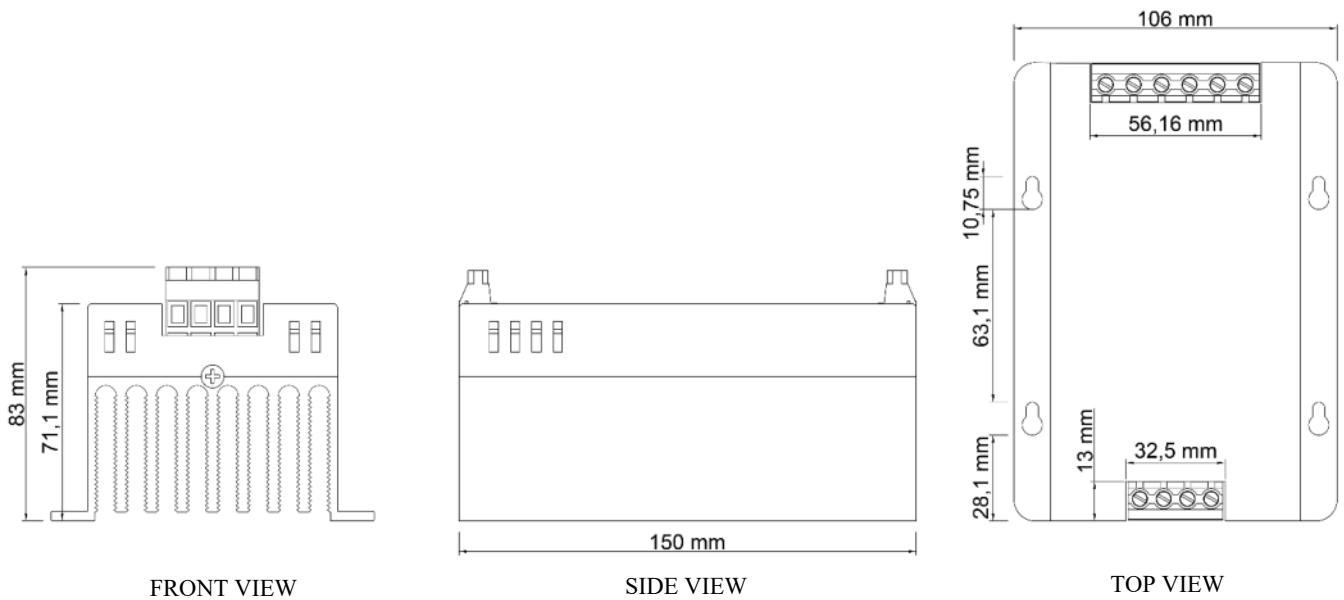


3. TECHNICAL PICTURES

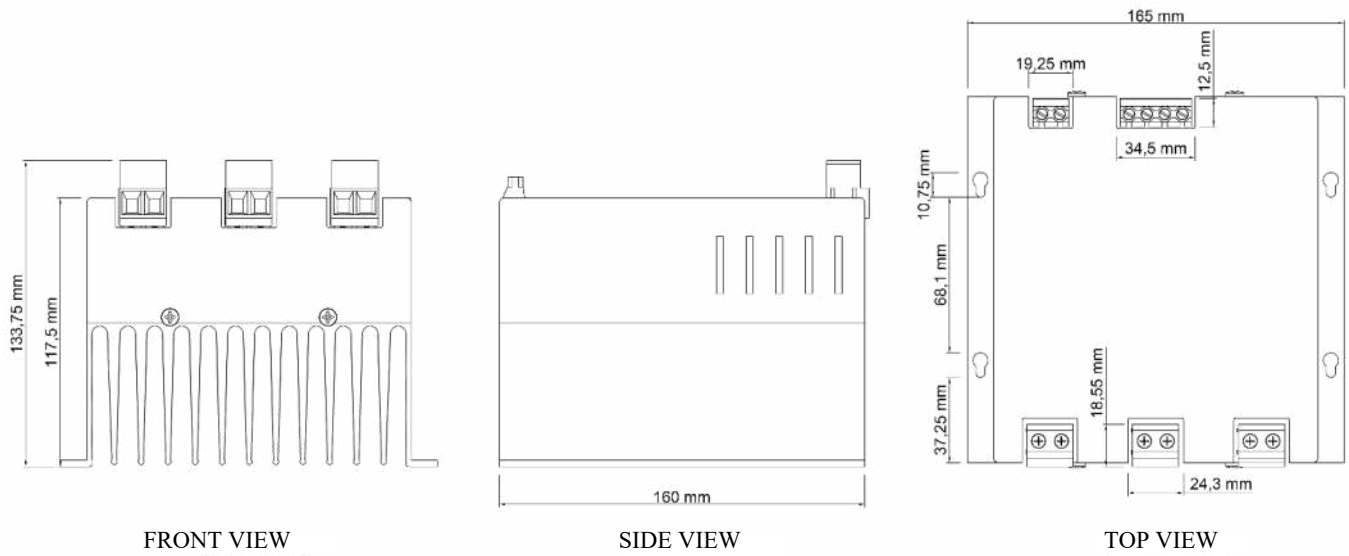
3.1 SVC 5 Technical Picture



3.2 SVC 10 Technical Picture



3.3 SVC 20 Technical Picture



3.4 SVC 30 Technical Picture

