



„The housing design was completed; for the power supply there was no space left.

That's when I called Elektrosil.“

Good power supplies perform well and work reliably. To construct such a power supply in the smallest possible space and to integrate an additional relay circuit – this was undertaken by Elektrosil.

### THE CHALLENGE

A premium supplier for private households and commercial use required a durable power supply with a new power supply board for his innovative home intercom system. Size, power, output voltage as well as fixed positions of screw terminals and release contact were specified. A separate relay circuit for special functions was to be integrated. Finally, approvals for several countries were to be obtained. At the same time, the project was subject to the strict schedule for the market launch of the final product.

### THE SOLUTION

Elektrosil defined a customised procedure to meet all the client's requirements relating to board layout, thermal management, housing samples and transformer design. The designers used components of the highest quality to achieve long life and high MTBF values. They found a suitable relay at a specialist manufacturer in Germany. The prototype and production samples were subjected to stringent testing by the customer whose quality expectations exceeded conventional power supply standards.

The Elektrosil team obtained approval of the special relay circuit for several countries, including TÜV and UL. Safety approvals were coordinated via the responsible manufacturer in the Far East. For easy further processing of the power supply units, Elektrosil worked with a supplier to implement labour-intensive packaging requests such as screw terminals screwed on by hand and their delivery in an opened state.

### OUR STRENGTHS

- Great expertise in the field of customised power supplies
- Optimal relationships with manufacturers as well as good contacts with the testing laboratories facilitate result-oriented and time-critical processes
- Experience in project organisation

**Are you also looking for a custom-fit solution for your system and a competent partner? Then give us a call: +49 40 840001-0.**

### Project information

- Client: One of the leading manufacturers of building communication technology in Europe
- Project size: > 10,000 units per year, duration > 10 years
- Sector: Industry
- Product area: Power Supplies
- Services: Development and circuit board layout, assembly production, international product approvals, assembly optimisation for the production process

### Elektrosil's services

- Application consultation, development assistance, design-in support
- Quality assurance
- Engineering and production
- Completely customised applications