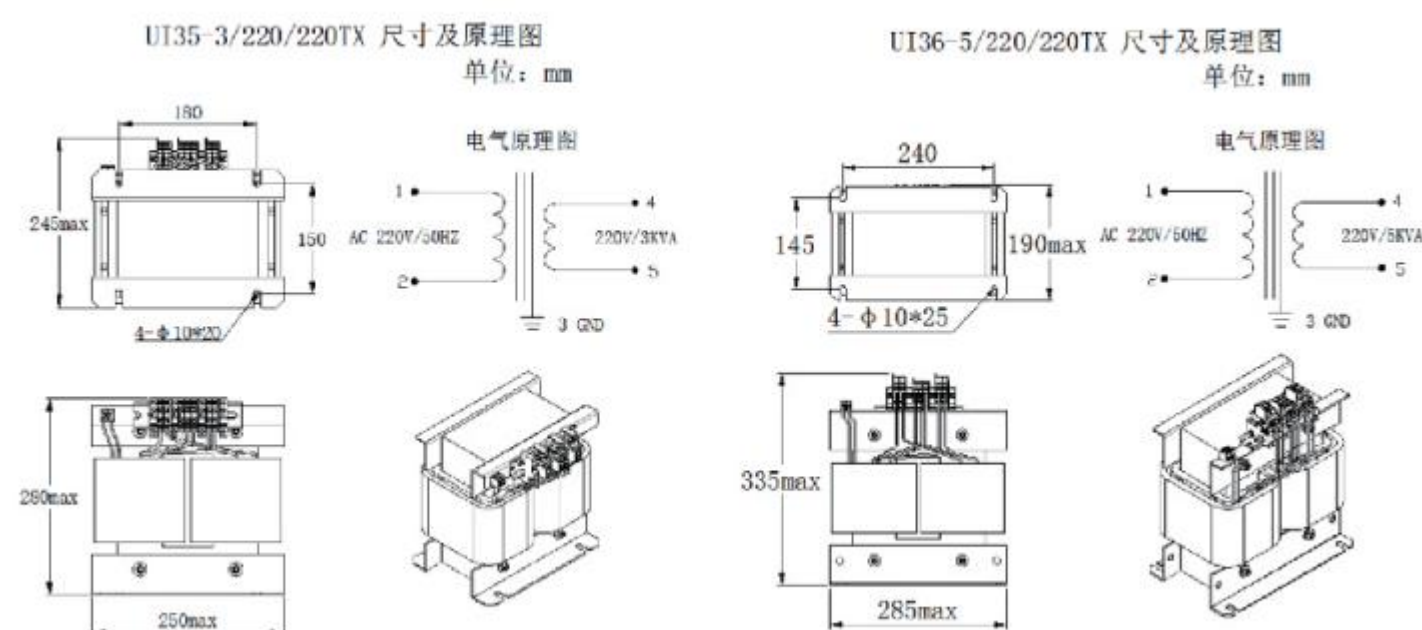


Isolation transformers for medical IT systems

1. Product application:

This transformer is specially designed for medical IT systems, with double insulation between the windings and an electrostatic shielding layer designed to minimize electromagnetic interference between the two windings. A PT100 temperature sensor is installed in the winding to monitor the winding temperature. The whole transformer adopts vacuum dipping treatment, which increases the mechanical strength and has anti-corrosion effect. In addition, the product also uses low temperature rise and low noise design, so that it has a good temperature rise performance and very low noise.

2. Dimensions



3. Parameters

| Item | | Parameters |
|----------------------------|--|---|
| | UI35-3/220/220TX | UI36-5/220/220TX |
| Primary side voltage | AC220V/50Hz/60Hz | AC220V/50Hz/60Hz |
| Secondary side voltage | 220V(no-load) | 220V(no-load) |
| Capacity | 3000VA | 3000VA |
| Phase number | Single | Single |
| No load current | < 2A | < 3A |
| No load consumption | < 90W | < 120W |
| Voltage regulation | < 3% | < 3% |
| Full-load temperature rise | < 75K | < 75K |
| Insulation resistance | $\geq 100\text{M}\Omega(\text{DC}500\text{V})$ | $\geq 100\text{M}\Omega(\text{DC}500\text{V})$ |
| Electric Strength | Primary side to the ground: AC4500V/50Hz/60s, $I_o \leq 5\text{mA}$ Secondary side to the ground: AC5000V/50Hz/60s, $I_o \leq 5\text{mA}$ Primary side to secondary side: AC4500V/50Hz/60s, $I_o \leq 5\text{mA}$ | Primary side to the ground: AC4500V/50Hz/60s, $I_o \leq 5\text{mA}$ Secondary side to the ground: AC5000V/50Hz/60s, $I_o \leq 5\text{mA}$ Primary side to secondary side: AC4500V/50Hz/60s, $I_o \leq 5\text{mA}$ |
| Insulation endurance class | H Class | H Class |
| Type of cooling | Dry self-cooling | Dry self-cooling |
| Noise | < 65dB(one meter away) | < 65dB(one meter away) |
| level of production | IP00 | IP00 |

4. Product use environment

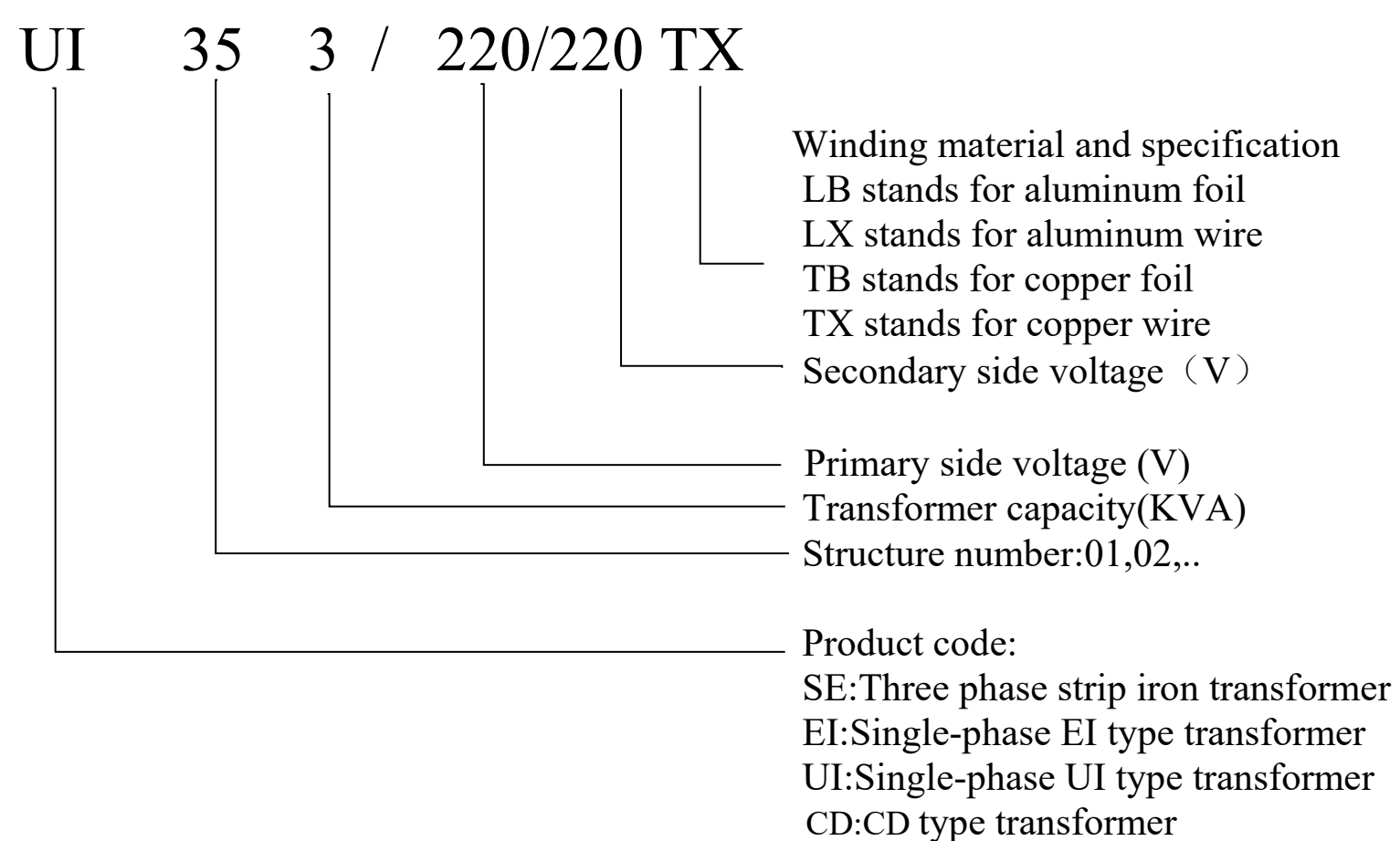
- 4.1 Working environment temperature: -5-45℃
- 4.2 Storage Temperature: -5-45℃
- 4.3 Working relative humidity: $\leq 90\%$ (@40℃)
- 4.4 Working altitude: 2000m below

5. Product standards

- 5.1 EN60601 Medical electrical equipment
- 5.2 IEC60076-11: 2016 dry transformer
- 5.3 GB/T1094.11-2007 Dry type transformer



6. Naming rule



7. Precautions for installation and use

- 7.1 Check whether the air cooling facilities are good before reactor operation;
- 7.2 Before operation of the reactor, check the connection bolts, whether the mounting bolts are tight, and whether there are foreign objects on the reactor;
- 7.3 During the reactor maintenance, it is forbidden to change the core air gap and winding position;
- 7.4 Reactor core and metal structural parts should be reliably connected to the ground.