

## Brief Introduction

L-22GYW current transformer is suitable for power measuring, electronic measuring instrument and relay protection in 22KV, 60HZ neutral point effective ground system.

## Type and Meaning



## Service condition

- 3.1 Installation site: outdoor
- 3.2 Sea leveled altitude:  $\leq 2500\text{m}$
- 3.3 Surrounding temperature: MAX:  $+45^{\circ}\text{C}$   
Daily mean:  $+30^{\circ}\text{C}$   
MIN:  $-25^{\circ}\text{C}$
- 3.4 Atmosphere condition: have no serious pollution in atmosphere, the pollution grade is III.
- 3.5 Minimum creepage distance:  $\geq 1256\text{mm}$

## Basic parameter and main technical performance in

- 4.1.1 Highest voltage of equipment 25KV
- 4.1.2 Rated primary voltage 22KV
- 4.1.3 Rated primary current 500A
- 4.1.4 Rated secondary current 5A
- 4.1.5 Rated frequency 60HZ
- 4.1.6 Secondary winding combination 0.2/5P20/5P20
- 4.1.7 Rated output

Protection class 30VA

Measuring class 30VA

- 4.2.1 Current errors and phase errors

a. Measuring winding

When secondary load is one value of 25-100% rated load ( $\cos\Phi=0.8\text{lag}$ ), current limit value and phase errors under rated frequency do not exceed the value in the table 1.

b. Protection winding

Under rated frequency and rated load, current errors, phase errors and composite errors do not exceed the value in the table 2.

- 4.2.2 Protection class accuracy limit factor: 20

- 4.2.3 Measuring class instrument security factor:  $F_s \leq 5$

- 4.2.4 Temperature rise limit value

Temperature rise if all the parts of the product can not exceed 55K, when current transformer is at primary current and rated output.

- 4.2.5 Insulation level

- 4.2.5.1 Internal insulation

primary winding to secondary winding or to earth 95KV(valid) 1 min

between sects of primary winding 3KV(valid) 1 min

secondary winding to secondary or to earth 3KV(valid) 1 min

- 4.2.5.2 External insulation

Dry test voltage 95KV(valid value)

Wet test voltage 95KV(valid value)

- 4.2.5.3 Rated impulse withstand voltage at sea level

Instrument transformer can carry 1.2/50 $\mu\text{s}$  impulse full-wave test voltage positive and negative polarity 15 times without breakdown or flashover. 200KV(peak)

- 4.2.6 Rated short time thermal current 25KA(valid value) 1s

- 4.2.7 Rated dynamic current 80KA(peak)

- 4.2.8 Polarity Subtractive



L-22GYW

