

Brief Introduction

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

Type and Meaning



- Service condition 3.1 Installation site:outdoor
- 3.2 Sea leveled altitude:≤2500m
- 3.3 Surrounding temperature:MAX:+45℃

Daily mean: +30°C

MIN:-25°C

- 3.4 Atmosphere condition: have no serious pollution in atmosphere, the pollution grade
- 3.5 Minimum creepage distance: ≥1256mm

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% reated load(cosΦ=0.8lag), current limit value and phase errors under rated frequency od 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:Fs≤5
- 4.2.4 Temperature rise limit value

Temperature rise if all the parts of the pruduct 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 earch 95KV(valid) 1 min

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

secondaty 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 1.2/50µs impulse full-wave test voltage positive and negative polarity 15 times without breskdown 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

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Construction

5.1 Partial dicharge level

Applied 80% of power frequency withstand voltage continuously 1 min.then reduce voltage to 1.2UmKV, measuring partial discharge value does not exceed 5PC in 30s. 5.2 Dielectric loss factor

At 10 KV, power frequency 60±0.5HZ, temperature 15°C-25°C, dielectric loss factor of instrument transformer, tan $\delta \leq 0.5\%$.

5.3 Radio interfefence level

Wheh 1.1Um/KV, the radio interference does not exceed 350 μ V.

5.4 Mechanical strength of primary terminals(P1.P2)

A:horizontal strength 1500N

B:vertical strength 500N

C:lateral strength 500N

5.5 Transformer oil

5.5.1 Type:No.25 transformer oil made in china

5.5.2 Breakdown voltage ≥45KV

5.5.3 Water content ≤20ppm

5.5.4 At 90°C and 2KV, dilectric loss factor does not exceed 0.004.

Service and maintenance

6.1 before the installation, inspect the sealed place and welding, it has no oil leakage, the oil surface is normal, if not, it should oiling the same type oil.

6.2 The isinstrument transformer should be fixed on the platform with foot bolts.

6.3 The oil drawing from the bottom, its electric intensity is not more than 50KV.

6.4 The product should veiled when it storage, before the operation, it should not sun or rain, the product should packed.

Notic when placing a order

a.type of instrument transformer

b.rated current ratio

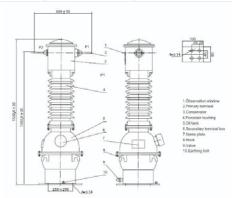
c.rated frequency

d.accuracy class combination and rated output

e.sea leveled altitude

Phase error(at the following rated current percentage) Current error(±%)(At the following Accuracy Class rated current percentage) ±(') 5 20 100 120 5 20 100 120 5 20 100 0.9 0.5s 1.5 0.75 0.5 0.5 0.5 90 45 30 30 30 2.7 1.35 0.9 0.9 120 0.3 0.35 0.2 0.2 0.2 30 15 10 10 10 0.45 0.3 0.1 0.4 0.2 0.1 0.1 15 8 5 5 0.45 0.24 0.15 0.3 0.15 0.2 0.75 0.35 0.2 0.2 30 15 10 10 0.9 0.45 0.3 1.5 0.5 0.5 90 45 30 30 1.35

			Table 2	
Accuracy	Current error(±%)(At reted primary current)	Phaes error(at rated primary current)		Compatible aggregativated appropriational limit augreent
		±(')	±card	Comosite error(at rated accuracy limit current)
5P	±1	±60	±18	5
10P	±3	120		10





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