

PART SIX

IMPULSE CURRENT TEST SYSTEMS-SA TYPE

06

Introduction

SA type impulse current test systems can generate different types lightning impulse current shapes such as 4/10 μ s, 8/20 μ s, 1 20 μ s, 30/80 μ s, 60/100 μ s , long duration current according to IEC 60099-4. Modifications can be applied according to the request of our customers.

This type of test system is especially to test the metal oxide surge arresters and MOV blocks.

Features and Benefits

- 1) Reliable and precisely controlled triggering unit by power pulse;
- 2) Protective earthing system for safety;
- 3) Shape resistors designed for low inductance and connected by easy joint;
- 4) Specially designed circuit available for different shapes;
- 5) Easy operation with the automatic control based on PLC module;
- 6) Special solutions to customer's problem and special requirement.

Applications

- ☆ Residual voltage test of surge arresters;
- ☆ 4/10 μ s impulse current test of surge arresters;
- ☆ Long duration impulse current test of surge arresters



Technical Parameters

Exponential Impulse Currents	Wave Shape	Peak Current
	μ s	(kA)
High current impulse 4/10 μ s	T1=4 \pm 0.5 μ s,T2=10 \pm 1 μ s	Upto 100kA
Lightning current impulse 8/20 μ s	T1=8 \pm 1 μ s,T2=20 \pm 2 μ s	Upto 60kA
Steep current impulse 1 < 20 μ s	T1=1 μ s \pm 0.1 μ s,T2 < 20 μ s	Upto 30kA
Switching current impulse	30 μ s \leq T1 \leq 100 μ s(T2 \approx 2T1)	Upto 3kA
2ms long duration	2ms \leq Td \leq 2.4ms	Upto 2kA
2.8ms long duration	2.8ms \leq Td \leq 3.36ms	Upto 1500A
3.2ms long duration	3.2ms \leq Td \leq 3.84ms	Upto 1500A

▼ 120kA 4/10 μ s & 80kA 8/20 μ s

