TECHNICAL QUESTIONNAIRE 3.101/2

Impulse Voltage Test System

Please, fill in or stick your name card

Name	Quotation No.:
Company/Institution:	
Telephone:	(will be filled in by HIGHVOLT)
Fax: e-mail:	
Date:	

In order to offer and deliver a HV test system, optimized for your purposes and conditions, we ask for your cooperation to fill-in this form. Thank you!

Application of the impulse test system

in test shop ❒ research institute ❒ training/education ❒

on-site ❒

mainly for the following test objects:

.....

.....

Required data for the impulse test system (as far as known):

Total charging voltage: ..... kV
Total charging energy: ..... kJ

Dimensionning of the generator acc. the following load cases:

Capacitive test objects - lightning impulse voltages

load case	impulse (acc. IEC 60-1)	peak value	chopping time (if required)	capacitance of the test object from ..... to .....
	µs/µs	kV	µs	nF
1. 2. 3.				
example	*1.2/50*	*1500*	*5*	0.3 4

Capacitive test objects - switching impulse voltages

load case	impulse (acc. IEC 60-1)	peak value of the impulse voltage		capacitance of the test object from ..... to .....
		positive polarity	negative polarity	
	µs/µs	kV	kV	nF
1. 2. 3.				
example	*250/2500*	*800*	*1100*	0.3 4

Please turn over!

Inductive test objects (transformer tests) - lightning impulse voltages

load case	impulse	peak value	chopping time	transformer data			coil data			
				phases	circ.	Freq.	nom. volt.	nom. power	imped. volt.	cap. of the coil
	µs/µs	kV	µs	1~/3~	Y/Δ	Hz	kV	MVA	%	nF
1.										
2.										
3.										
example	1.2/50	1425	4	3~	Δ	60	525	200	15	1.8

Inductive test objects (transformer tests) - switching impulse voltages

load case	impulse	peak value	transformer data			coil data			
			phases	circ.	freq.	nom. volt.	nom. power	imped. volt.	cap. of the coil
	µs/µs	kV	1~/3~	Y/Δ	Hz	kV	MVA	%	nF
1.									
2.									
3.									
example	250/2500	1175	3~	Δ	60	525	200	15	1.8

(Extend the tables if necessary!)

Control: basic control ❒ computer-aided measuring, control and evaluation system ❒

Digital transient measuring system: yes ❒ no ❒

- sampling rate 100 MHz, resolution 14 bit ❒
- sampling rate 200 MHz, resolution 12 bit ❒

Controlled resistive lightning impulse voltage divider:

yes ❒ no ❒

- nom. voltage ..... kV

Chopping gap: yes ❒ no ❒

Supply conditions for the feeding of the impulse test system:

Mains voltage (low-voltage mains): ..... / V
Mains frequency: ..... Hz
Star point earthed: yes ❒ no ❒

Erection, commissioning, training shall be offered:

erection and commissioning: yes ❒ no ❒
training of client's staff: yes ❒ no ❒

Space for remarks:

For further information please contact:

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