



TECHNICAL QUESTIONNAIRE 9.101/4

Transformer 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 be able to supply to you with a quotation, well adapted to your requirements, we ask you for filling out the following overview. Thank you!

Application of the Transformer test system

in test shop research institute mobile on-site

Test of - distribution transformers up to MVA
 - power transformers up to MVA
 - special transformer up to MVA
 application

Planned tests: Routine tests type tests special tests

	Should be part of offer		Remarks
	YES	NO	
Routine tests			
measurement of winding resistance			
measurement of transformer ratio			
measurement of no load current and no load losses			
measurement of short circuit impedance and load losses			
applied voltage test			
induced voltage test (ACSD)			
induced voltage test (ACLD) with partial discharge measurement			
tap-changer test under load			
Type tests			
temperature rise test			
lightning impulse test (LI)			
switching impulse test (SI)			
Special tests			
noise level measurement			
zero-sequence test			
Other:			

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General data of the test objects:

			Single-phase object		Three-phase object	
			Minimum	Maximum	Minimum	Maximum
AC test voltage range		kV				
rated power range		MVA				
HV- Voltage (Um) range		kV				
LV- Voltage (Um) range		kV				
TV- Voltage (Um)	range	kV				
	other TV-Voltages					

Data of the largest test objects:

			Single-phase "largest" transformer		Three-phase "largest" transformer	
			Minimum	Maximum	Minimum	Maximum
AC test voltage		kV				
rated power		MVA				
weight of iron core		kg				
			Minimum	Maximum	Minimum	Maximum
HV- Voltage (Um)		kV				
LV- Voltage (Um)		kV				
TV-Voltage (Um)		kV				
frequency		Hz				
short- circuit impedance		%	(HV)	(LV)	(HV)	(LV)
load- losses		kW				
temperature rise test		kW				
OLTC test according to IEC 60076-1 item 10.8	U _k variation over 4 steps (± 2)	%				
	Power variation over 4 steps (± 2)	kVA				
no- load test	test voltage	kV				
	current	A				
	losses	kW				
	3rd harmonics	A				
	5rd harmonics	A				
	7rd harmonics	A				
winding capacitance	HV	nF				
	LV					
	TV					
	HV-LV					
through put: transformers per week						

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Please provide a selection of test reports and data sheets of planned test objects

Control: basic control computer-aided control
and measuring

Power measuring system: yes no

HVC (capacitive compensation) is required: yes no

manual disconnectors automatic disconnectors

capacitors with intern fuse capacitors without intern fuse

bank with unbalance protection bank without unbalance protection

Requirements concerning the PD behaviour of the AC test system

PD measuring system is required: yes no

- PD-level < pC up to kV
- PD-level < pC up to kV

Shielded test field exists: yes no

Shielded test field is required: yes no

Supply conditions for the transformer test system

	low-voltage mains	medium-voltage mains
mains voltage / V kV
frequency Hz	
available power: single-phase kVA kVA
three-phases kVA kVA
star point earthed	yes <input type="checkbox"/> no <input type="checkbox"/>	yes <input type="checkbox"/> no <input type="checkbox"/>

The test field

Layout (Lx W x H), if application for test shop* ¹⁾	Test field	m x m x m	
	HV capacitor-bank	m x m x m	
ambient conditions	Altitude above sea level	m	
	Min. ambient temperature	°C	
	Max. ambient temperature	°C	
	Relative humidity	%	

*¹⁾ a drawing about the layout of the test field is favored

Special mains conditions / restrictions by buildings:

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Erection of the transformer test system on-site

Supervision required yes no

For further information please contact:

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