



SECTOS ROUTINE TEST REPORT

Contract No.:	501801453	Customer:	ABB S.A.
Switch Type:	NXA36C630A3	Serial No.:	1VXP170000D0605
Rated Voltage:	36KV	Rated Current :	630A

1. STRUCTURE CHECK

Result

Product and all parts conform to the drawing and technical requirements	OK
Painting, coating, nameplate, identification meets requirements	OK
Completeness	OK

2. MECHANICAL OPERATION TESTS

Result

5 manual operations (if manually operated switch shall be 10 operating cycles)	OK
5 electrical operations	N/A
5 electrical operations at specified minimum supply voltage	N/A
5 electrical operations at specified maximum supply voltage	N/A
Shunt release tests	N/A
Motor operation OK	N/A
Counter operation OK	OK
Position indicating device operation OK	OK
Manual lockout OK	N/A

3. MECHANICAL FUNCTION TEST

Result

Closing speed(NXB : 4.0 ~ 6.0m/s, NXB17R : 4.6 ~ 6.5m/s, NXA : 4.6 ~ 6.5m/s, Dual spring : 2.5 ~ 6.0m/s)	OK
Opening speed (NXB : 2.2 ~ 5.0m/s , NXA : 2.2 ~ 6.0m/s)	OK
Closing speed to earth (NXB:4.0 ~ 6.0m/s, Dual spring:2.5 ~ 6.0m/s)	N/A

4. POWER FREQUENCY WITHSTAND VOLTAGE TEST

Result

Main circuit <u>70kV</u> between phase to phase and phase to earth, 1min.	OK
Main circuit <u>80kV</u> between the gap of terminals, 1min.	OK
Apply 2500V/1s between control and auxiliary circuit to earth .	OK

5. PARTIAL DISCHARGES TEST

Result

($\leq 10\text{pC}/14.5\text{kV}$, Pre-stressing voltage 27.7kV-5s, for $U_n \leq 24\text{kV}$, or $\leq 10\text{pC}/22.9\text{kV}$, Pre-stressing voltage 36kV-5s, for $U_n = 36\text{kV}$)	OK
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6. RESISTANCE OF MAIN CIRCUITBetween the fixed bushings ($\leq 123 \mu\Omega$)

A phase:	99 $\mu\Omega$	B phase:	106 $\mu\Omega$	C phase:	100 $\mu\Omega$
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Earth circuit/optional ($\leq 400\mu\Omega$)

A phase:	N/A $\mu\Omega$	B phase:	N/A $\mu\Omega$	C phase:	N/A $\mu\Omega$
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7. GAS PRESSURE CHECK**Result**

Check of rated filling gas pressure (NXB:between 1.4~1.5bar abs,NXA:between 1.8~1.9bar abs).	OK
Check of alarming pressure(Close to 1.2bar abs)	N/A
Check of lockout pressure(Close to 1.1bar abs)	N/A

8. GAS LEAKAGE TEST**Result**

Check of SF6 yearly gas leakage rate (<0. 1%)	OK
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9. SENSOR OR CVD FUNCTION TEST**Result**

Verification of the function and phase order of all measuring channels polarity	N/A
Verification of the polarity of voltage measurements(< 2 Ω Sensor only)	N/A

The switch complies with the GB3804/IEC60265-1 and has been fully tested and released by the undersigned.

Tested by:	Reviewed by:	Date:
Wade	Rico	2017. 03. 28