Test Report

Date/Time: 2020-12-17, 05:53:20 PM

Assessment	Auto	Manual
	Passed	

Location

Company:	uedcl	**Country:**	ug
Station:	Lira	**Feeder:**	Apac-Masindi
Phase:	Red	**IEC-ID:**	

CT Nameplate

Manufacturer:	ABB	**Tap:**	1
Type:	CVC-200	**Core Number:**	M
Serial Number:	IVAP61515986	**Optional 1:**	
Ratio:	150:1	**Core Type:**	Metering CT
Frequency:	50Hz	**Class:**	0.2 - FS n/a ext. 120% (IEC 60044-1)
Nominal Burden:	10.0 VA	**Operating Burden:**	10.0 VA

Equipment

Test Device:	CT-Analyzer	**Software Version:**	5.10 (537) 2020-11-17 16:38
Serial Number:	JH467E	**Hardware Version:**	01/01/09/05/00/11

Test Settings:

Primary Current I-pn:	150.0A	**Nominal Burden:**	10.0VA ?* cos φ: 0.8
Secondary Current I-sn:	1.0A	**Operating Burden:**	10.0VA ? cos φ: 0.8 ?
Frequency:	50.0Hz		
Applied Standard:	IEC 60044-1	**Core Type:**	Metering CT
Class:	0.2 - FS n/a ext. 120%		
Rct:	2.568Ω ? (75.0°C)		
FS:	-2.0	**Ext. I-pn:**	120%
		Ext. VA:	no

Multiplying Factor for Ratio Assessment: 1.000
Delta compensation: Ratio 1

? Value is automatically detected by CT Analyzer's guesser function.
* Auto-detection may prevent assessment. Explicit setting might be mandatory for automatic assessment.

Assessments:

Parameter	Auto	Manual
Accuracy	Passed	
ε	Passed	
Δφ	Passed	
FS	n/a	
FSi	n/a	

Resistance

Secondary Winding:

R-meas:	2.153Ω	**T-meas:**	25.0°C
R-ref:	2.568Ω	**T-ref:**	75.0°C

Ratio:

Results with nominal burden:

Used Burden:	10.0 VA cos φ: 0.8
Used I-p:	150.00A
Ratio:	150.0 : 0.9992
Deviation:	-0.082%
ε-c:	0.083%
RCF:	1.00082
N:	149.99
Phase:	0.45min
Polarity:	OK

Burden	Current ratio error in % at % of rated current								Designation
VA / cos φ	**1.0 %**	**5.0 %**	**10 %**	**20 %**	**50 %**	**100 %**	**120 %**	**200 %**	
10.00 / 0.8	-0.177	-0.171	-0.171	-0.155	-0.113	-0.082	-0.075	-0.060	100% Nom.Burden
5.00 / 0.8	-0.083	-0.085	-0.084	-0.088	-0.073	-0.056	-0.052	-0.040	50% Nom.Burden
2.50 / 1.0	0.007	0.003	-0.001	-0.011	-0.025	-0.026	-0.025	-0.022	25% Nom.Burden
1.25 / 1.0	0.008	0.006	0.003	-0.002	-0.014	-0.017	-0.017	-0.015	12.5% Nom.Burden
1.00 / 1.0	-0.001	0.006	0.004	-0.001	-0.012	-0.015	-0.015	-0.014	1 VA

Burden	Phase displacement in minutes at % of rated current								Designation
VA / cos φ	**1.0 %**	**5.0 %**	**10 %**	**20 %**	**50 %**	**100 %**	**120 %**	**200 %**	
10.00 / 0.8	10.20	8.24	6.21	3.73	1.37	0.45	0.30	0.15	100% Nom.Burden
5.00 / 0.8	6.27	5.74	4.82	3.58	1.75	0.84	0.66	0.33	50% Nom.Burden
2.50 / 1.0	4.81	4.59	4.27	3.61	2.42	1.54	1.36	0.92	25% Nom.Burden
1.25 / 1.0	3.55	3.41	3.27	2.86	2.09	1.40	1.24	0.86	12.5% Nom.Burden
1.00 / 1.0	3.30	3.17	3.04	2.70	2.02	1.36	1.21	0.85	1 VA

NOTE: Measurements with '!' have reduced accuracy. Accuracy only guaranteed on non-gapped cores.

Excitation:

Knee Points:

Standard	V	I
IEC 60044-1	46.43V	3.272mA

Results:

Kr:	69%	**Lm:**	59.1H
		Ls:	621.7µH

Results with nominal burden:		Results with operating burden:	
Burden:	10.0 VA cos φ: 0.8	**Burden:**	10.0 VA cos φ: 0.8
FS:	5.17	**FS:**	5.17
FSi:	4.85	**FSi:**	4.85
Ts:	5.589s	**Ts:**	5.589s
ε-i:	n/a (@ FS = -2.0)	**ε-i:**	n/a (@ FS = -2.0)

Excitation Table:

Actual Values		
V	**I**	**L**
60.16V	2.551A	29.7mH
59.51V	1.377A	52.6mH
59.13V	794.9mA	85.6mH
58.88V	478.4mA	136.7mH
58.68V	294.7mA	218.6mH
58.52V	181.8mA	351.1mH
58.38V	115.4mA	560.0mH
58.23V	74.26mA	897.1mH
58.08V	49.00mA	1.4H
57.90V	32.75mA	2.3H
57.66V	23.11mA	3.6H
57.28V	16.66mA	5.7H
55.13V	8.571mA	13.0H
52.76V	5.932mA	19.8H
50.30V	4.496mA	27.0H
47.73V	3.596mA	34.0H
45.12V	2.968mA	41.1H
42.36V	2.515mA	48.2H
39.62V	2.188mA	55.6H
36.82V	1.945mA	61.7H
34.31V	1.778mA	65.8H
31.73V	1.597mA	69.3H
17.02V	1.075mA	54.8H
9.126V	784.3µA	39.0H
4.893V	572.1µA	28.5H
2.624V	412.0µA	21.0H
1.406V	286.9µA	15.8H
1.000V	224.3µA	14.0H
0.404V	111.5µA	11.3H
0.216V	62.4µA	10.5H
0.116V	34.5µA	9.6H