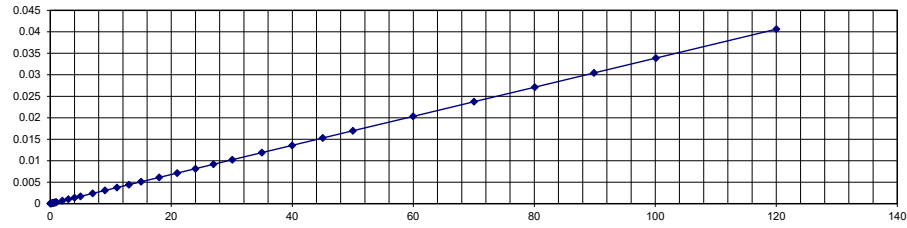


CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
TURNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb



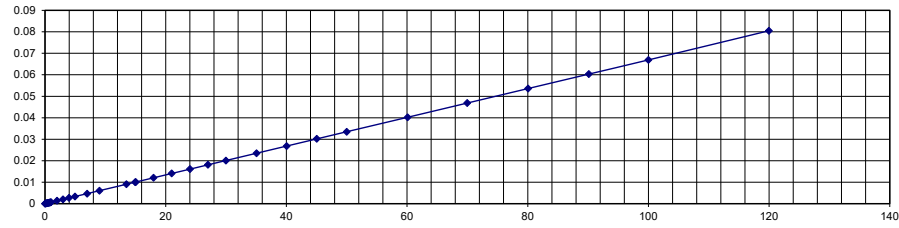
TEST SETUP	
FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	1
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60

Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000829788	0.000829788	2.70379E-05	0.00023054	-0.000829597	103.2591587	30.68983985	98.97700534
0.1A	0.101487669	0.101487669	5.02435E-05	0.000341126	-0.000795168	106.3186057	2019.914884	32.66950388
0.2A	0.193794107	0.193794107	8.17317E-05	0.000285159	-0.000774526	110.5524794	2371.100706	20.96330979
0.3A	0.299044862	0.299044862	0.000111745	0.000359906	-0.00072216	115.4737007	2676.138435	10.79538548
0.4A	0.400164256	0.400164256	0.000148138	0.000351687	-0.000689056	121.4987536	2701.286892	9.957103598
0.5A	0.501074155	0.501074155	0.000183627	0.000304524	-0.000677199	127.1156666	2728.759543	9.041348583
0.6A	0.600283509	0.600283509	0.000213839	0.000357999	-0.000614887	134.7768891	2807.179057	6.427364765
0.7A	0.700284504	0.700284504	0.000249639	0.000294515	-0.000623544	140.0354907	2805.18927	6.493690989
0.8A	0.802124356	0.802124356	0.000279632	0.00036484	-0.000537141	152.0593979	2868.496907	4.383436445
0.9A	0.901448856	0.901448856	0.00031587	0.000335605	-0.000527258	159.9080419	2853.861367	4.871287776
1A	1.0006978	1.0006978	0.000349178	0.000341688	-0.000487861	171.5732559	2865.864959	4.47116803
2A	1.99931842	1.99931842	0.000690395	0.000336295	-0.000157428	538.546453	2895.903503	3.469883217
3A	3.00100218	3.00100218	0.001027256	0.000341689	0.000195621	-425.1263663	2921.376272	2.620790936
4A	4.00920627	0.040092063	0.001371748	0.000337838	0.000524674	-161.4479529	2922.697953	2.576734898
5A	5.01126718	0.050112672	0.001710283	0.000338488	0.000866464	-97.38643375	2930.081419	2.330619359
7A	6.9987658	0.034993829	0.002383026	0.000339756	0.001548084	-53.93391424	2936.923293	2.10255691
9A	9.03507236	0.045175362	0.003074874	0.000337483	0.002219397	-38.54548302	2938.355611	2.054812968
11A	11.0140912	0.022028182	0.003742759	0.000339373	0.002908095	-28.7013912	2942.773105	1.907563171
13A	12.997035	0.02599407	0.004415717	0.00033809	0.00356438	-23.88455269	2943.35809	1.888063675
15A	15.00738075	0.030014762	0.005095394	0.000338202	0.004245735	-20.01206781	2945.283394	1.823886852
18A	17.9995362	0.035999072	0.006107347	0.000339936	0.005288894	-15.47493791	2947.194024	1.760199188
21A	20.97003195	0.041940064	0.007117124	0.000338854	0.006275996	-13.40230744	2946.419382	1.786020602
24A	23.99147005	0.04798294	0.008140951	0.00034327	0.007405774	-9.927074374	2947.010735	1.766308829
27A	26.9790807	0.026979081	0.009166509	0.00034159	0.008385987	-9.307455398	2943.222919	1.892569368
30A	30.0739407	0.030073941	0.010223682	0.000337839	0.009330365	-9.574299721	2941.595952	1.946801611
35A	34.9742531	0.034974253	0.011879199	0.000337768	0.010983383	-8.156096413	2944.159256	1.861358136
40A	39.9800766	0.039980077	0.013570004	0.000338894	0.012719233	-6.688855483	2946.209618	1.793012723
45A	45.0457822	0.045045782	0.015286743	0.00033934	0.014456065	-5.746224955	2946.722019	1.775932693
50A	50.0129027	0.050012903	0.016972288	0.000335293	0.015939193	-6.481475183	2946.739054	1.77536488
60A	59.980892	0.029990446	0.020314486	0.00033971	0.01954635	-3.929817908	2952.616826	1.579439124
70A	70.0500116	0.035025006	0.023735071	0.000336876	0.022768352	-4.245891927	2951.329335	1.622355508
80A	80.0930702	0.040046535	0.027118333	0.00033925	0.026341784	-2.947971198	2953.465896	1.551136794
90A	89.8891132	0.044944557	0.030441164	0.000337583	0.029515212	-3.138816222	2952.834128	1.572195743
100A	100.107082	0.050053541	0.033891048	0.000338021	0.033008527	-2.673616221	2953.791252	1.54029159
120A	120.0227552	0.030005689	0.040622968	0.000338461	0.03979318	-2.085252426	2954.554071	1.514864288

CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
TURNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb



TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60

Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.00081068	0.00081068	2.51193E-05	0.000566304	-0.00081022	103.1003098	64.54623483	97.84845884
0.1A	0.099914842	0.099914842	8.12424E-05	0.000663458	-0.00074439	110.9139519	2459.672821	18.01090596
0.2A	0.199352191	0.199352191	0.000147215	0.00060397	-0.000690277	121.3269426	2708.314875	9.722837507
0.3A	0.301648038	0.301648038	0.000208999	0.000669187	-0.000608821	134.3284299	2886.604095	3.779863508
0.4A	0.400925693	0.400925693	0.000275434	0.000666188	-0.000543588	150.6696198	2911.230296	2.958990149
0.5A	0.501404692	0.501404692	0.000342372	0.000664927	-0.000477282	171.7336279	2929.007624	2.366412531
0.6A	0.600783463	0.600783463	0.000408451	0.000681101	-0.000401485	201.7350269	2941.762723	1.941242581
0.7A	0.701547449	0.701547449	0.000477082	0.000720883	-0.000304946	256.4479667	2940.994619	1.96684602
0.8A	0.802922593	0.802922593	0.000550161	0.000647117	-0.000291095	288.9972518	2918.862136	2.704595451
0.9A	0.901111337	0.901111337	0.000613701	0.000620894	-0.000251185	344.3221289	2936.64642	2.111786015
1A	1.0006707	1.0006707	0.000675142	0.000676684	-0.00013395	604.0237615	2962.538757	1.248708101
2A	2.00075069	2.00075069	0.001352288	0.000668553	0.000522926	-158.6003543	2959.059534	1.364682193
3A	2.99980918	2.99980918	0.002018213	0.00066577	0.001186503	-70.09765467	2972.737677	0.908744107
4A	3.98652616	0.039865262	0.002675139	0.000671606	0.001866695	-43.30890324	2980.424901	0.652503298
5A	4.98756546	0.049875655	0.003347443	0.000660635	0.00248428	-34.74498937	2979.925309	0.669156374
7A	6.97777206	0.03488886	0.004662243	0.000678475	0.003923563	-18.82676939	2993.311044	0.222965202
9A	9.02051128	0.045102556	0.00604819	0.000666676	0.005203078	-16.24255493	2982.879441	0.570685304
11A	13.50985765	0.027019715	0.009041129	0.000668508	0.008220763	-9.97920173	2988.533271	0.382224308
13A	14.9672578	0.029934516	0.010015412	0.00065161	0.008942133	-12.0024942	2988.845092	0.371830261
15A	15.0489639	0.030097928	0.010068653	0.000668578	0.009250729	-8.841719078	2989.27063	0.357645666
18A	17.998966	0.035997932	0.01204096	0.000670966	0.011266016	-6.87859893	2989.623161	0.345894633
21A	21.0031235	0.042006247	0.014056647	0.000666162	0.013180797	-6.644898413	2988.354606	0.388179806
24A	24.0368236	0.048073647	0.016077582	0.000673357	0.015374676	-4.571844778	2990.104271	0.329857641
27A	27.0221106	0.027022111	0.018087745	0.000674156	0.017406433	-3.914136803	2987.891575	0.403614158
30A	29.9913936	0.029991394	0.020089505	0.000668205	0.01922971	-4.471178148	2985.777335	0.474088846
35A	35.0508368	0.035050837	0.023470248	0.000670521	0.022691632	-3.431291528	2986.831383	0.438953888
40A	40.0483744	0.040048374	0.026821201	0.000668759	0.025972018	-3.269603478	2986.322286	0.455923788
45A	45.0538245	0.045053825	0.030168639	0.000671602	0.029447538	-2.448763107	2986.798639	0.440045377
50A	50.0078425	0.050007843	0.033495765	0.000666585	0.032523814	-2.98842783	2985.920327	0.469322418
60A	60.1100338	0.030055017	0.040229737	0.000670481	0.039491979	-1.868120354	2988.338378	0.388720743
70A	69.982546	0.034991273	0.046849073	0.000670207	0.046092129	-1.64224192	2987.574424	0.414185855
80A	80.0580676	0.040029034	0.053601176	0.000668188	0.0526832	-1.743554577	2987.143226	0.428559122
90A	90.1354396	0.04506772	0.060335344	0.000668226	0.059420158	-1.54019434	2987.815538	0.406148728
100A	100.0090168	0.050004508	0.066933125	0.000680045	0.067199958	0.397073568	2988.326554	0.389114859
120A	119.974722	0.029993681	0.080510704	0.000671064	0.079700024	-1.017163438	2980.342153	0.655261569

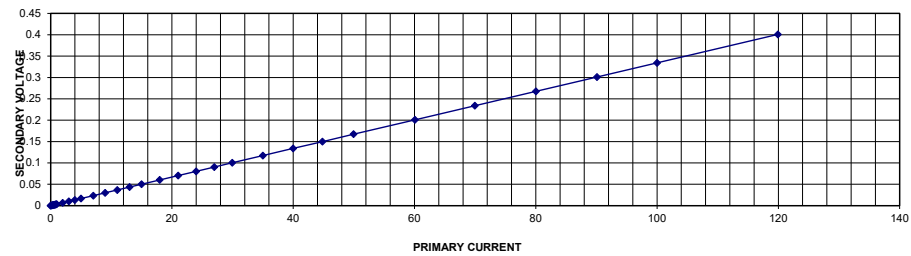
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
TURNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000844309	0.000844309	2.68864E-05	0.003160976	-0.00084164	103.1945256	314.0281599	89.53239467
0.1A	0.101097273	0.101097273	0.000343784	0.003424008	-0.000498151	169.0119047	2940.724059	1.975864707
0.2A	0.199642769	0.199642769	0.000681204	0.003296283	-0.00018623	465.7865372	2930.733314	2.308889542
0.3A	0.300335981	0.300335981	0.001013117	0.003422697	0.00018365	-451.6565233	2964.473448	1.184218396
0.4A	0.400840414	0.400840414	0.001357114	0.003335387	0.000492649	-175.4728097	2953.624445	1.545851831
0.5A	0.500853362	0.500853362	0.001690696	0.003345285	0.000831188	-103.4070337	2962.41011	1.252996331
0.6A	0.600426629	0.600426629	0.002023797	0.003295164	0.001134195	-78.43461289	2966.832965	1.105567822
0.7A	0.701312608	0.701312608	0.002356232	0.003340936	0.001498731	-57.21510914	2976.415314	0.786156195
0.8A	0.800310456	0.800310456	0.002686978	0.003424206	0.001896119	-41.7093555	2978.478077	0.717397434
0.9A	0.897245047	0.897245047	0.003018902	0.003306823	0.002122721	-42.2184726	2972.090828	0.930305726
1A	0.999756677	0.999756677	0.00335789	0.003338352	0.00249323	-34.68027431	2977.336325	0.755455841
2A	2.00174519	2.00174519	0.00670288	0.00342585	0.005846694	-14.64392248	2986.395791	0.453473647
3A	3.00088477	3.00088477	0.010042589	0.00333544	0.009159274	-9.643943484	2988.158591	0.394713633
4A	3.99910388	0.039991039	0.013370196	0.003377777	0.012663773	-5.578300473	2991.058441	0.298051967
5A	5.00608464	0.050060846	0.016771553	0.003246093	0.015405909	-8.864416574	2984.866464	0.504451195
7A	7.03270358	0.035163518	0.023350147	0.003444011	0.023376397	0.112291863	3011.845476	-0.394849185
9A	8.99357076	0.044967854	0.030103395	0.003315357	0.028972584	-3.903036757	2987.560303	0.414656554
11A	10.99492645	0.021989853	0.036738603	0.003370435	0.03621338	-1.450354826	2992.744879	0.241837361
13A	13.0113512	0.026022702	0.043534832	0.003315123	0.042289915	-2.943766628	2988.722056	0.37593147
15A	15.00068695	0.030001374	0.050129724	0.003358028	0.049528411	-1.214076008	2992.373754	0.254208197
18A	18.00117135	0.036002343	0.060205433	0.003366144	0.059750223	-0.76185423	2989.957958	0.334734741
21A	21.02344025	0.042046881	0.070378825	0.003327515	0.0691115	-1.833739246	2987.182619	0.427246027
24A	23.999469	0.047998938	0.080281605	0.003381225	0.080303293	0.027007946	2989.410724	0.352975879
27A	26.9853139	0.026985314	0.090377418	0.003382903	0.090444397	0.074055604	2985.846969	0.471767702
30A	29.9536643	0.029953664	0.10041906	0.003331118	0.098934873	-1.500165245	2982.86643	0.571119002
35A	35.0019656	0.035001966	0.117235546	0.003379966	0.117461148	0.192065292	2985.61032	0.479656002
40A	39.9933059	0.039993306	0.134106107	0.00324123	0.128783189	-4.133239409	2982.213621	0.592879289
45A	44.8291801	0.04482918	0.149780287	0.003409676	0.152008677	1.465962158	2992.996008	0.233466415
50A	49.9702889	0.049970289	0.167309803	0.003316212	0.164867747	-1.481221314	2986.692232	0.443592258
60A	60.0810738	0.030040537	0.200839306	0.00334521	0.200139492	-0.349663125	2991.499771	0.283340951
70A	69.970181	0.034985091	0.233920445	0.003345848	0.233265253	-0.280878691	2991.195618	0.293479406
80A	80.021542	0.040010771	0.267550767	0.00332978	0.265609804	-0.730757221	2990.891893	0.303603565
90A	90.1033994	0.0450517	0.301121132	0.003346839	0.300717219	-0.134316669	2992.264236	0.257858799
100A	100.0029066	0.050001453	0.334253184	0.003343033	0.333468674	-0.235257384	2991.831085	0.272297182
120A	119.9264792	0.02998162	0.400858338	0.003342534	0.400014029	-0.21106985	2991.742165	0.275261166

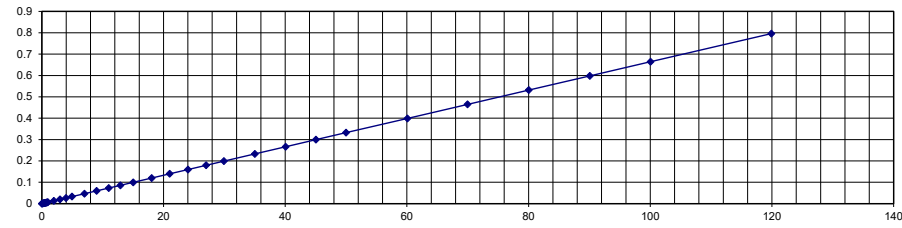
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
TURNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	20
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000814923	0.000814923	2.57336E-05	0.006505874	-0.000809621	103.1784777	633.352551	78.8882483
0.1A	0.099886299	0.099886299	0.000670279	0.007191124	-9.6628E-05	793.6702079	2980.437324	0.652089185
0.2A	0.207672036	0.207672036	0.00144538	0.006261784	0.000485475	-197.7251403	2873.597634	4.213412215
0.3A	0.294829394	0.294829394	0.001991141	0.006456333	0.001088594	-82.90938326	2961.412137	1.286262101
0.4A	0.399114738	0.399114738	0.002664441	0.006620961	0.0018276	-45.78906791	2995.860416	0.137986142
0.5A	0.500358761	0.500358761	0.003334774	0.00669245	0.00253703	-31.61660423	3000.855425	-0.028514175
0.6A	0.600168426	0.600168426	0.004002745	0.006642356	0.00317161	-26.20548911	2998.78393	0.040535679
0.7A	0.701090728	0.701090728	0.004673107	0.006627196	0.003831343	-21.97046829	3000.53345	-0.017781673
0.8A	0.79924903	0.79924903	0.005323622	0.006853044	0.004662366	-14.18282333	3002.651558	-0.088385258
0.9A	0.900629104	0.900629104	0.006018384	0.006434284	0.004979981	-20.8515394	2992.926825	0.235772493
1A	1.00069876	1.00069876	0.00666226	0.006644295	0.005834015	-14.19683882	3004.081825	-0.136060829
2A	1.99217491	1.99217491	0.01324992	0.006670927	0.01247473	-6.214081976	3007.074624	-0.235820795
3A	3.00232716	3.00232716	0.019988572	0.006605229	0.019016136	-5.113738104	3004.043731	-0.134791022
4A	3.97088432	0.039708843	0.026386114	0.006756653	0.026014965	-1.426673047	3009.828867	-0.327628898
5A	4.96706493	0.049670649	0.03311696	0.006570687	0.031822108	-4.06903437	2999.710644	0.009645209
7A	7.02089836	0.035104492	0.046612058	0.006712334	0.046311695	-0.648567346	3012.481622	-0.416054077
9A	9.01398494	0.045069925	0.059990321	0.006583268	0.058526555	-2.501029007	3005.146407	-0.171546894
11A	11.01813445	0.022036269	0.073184175	0.006652195	0.072479856	-0.971744416	3011.070224	-0.369007464
13A	12.9326968	0.025865394	0.085920217	0.00668379	0.085624505	-0.345359067	3010.396694	-0.346556467
15A	15.0200566	0.030040113	0.099871691	0.006605145	0.098394722	-1.501065201	3007.870695	-0.262356494
18A	18.0557354	0.036111471	0.119922788	0.006685664	0.119899662	-0.019287636	3011.226757	-0.374225233
21A	21.0247952	0.04204959	0.139772925	0.006634715	0.138678595	-0.789112142	3008.421724	-0.280724134
24A	24.0219934	0.048043987	0.15965848	0.006654327	0.159035274	-0.39186628	3009.172253	-0.305741772
27A	27.0033325	0.027003333	0.179497285	0.006686039	0.179730423	0.129715569	3008.773364	-0.292445463
30A	29.9393605	0.029939361	0.199127684	0.006652776	0.198364942	-0.38451467	3007.051546	-0.235051529
35A	35.015569	0.035015569	0.232898563	0.006625291	0.231173406	-0.746261094	3006.937316	-0.231243877
40A	40.0803056	0.040080306	0.266453916	0.006674878	0.266716243	0.098354459	3008.423085	-0.280769502
45A	45.0547742	0.045054774	0.299657889	0.006650643	0.298828301	-0.277613655	3007.080798	-0.236026602
50A	50.0129323	0.050012932	0.332632829	0.006577794	0.328159837	-1.363052815	3007.095388	-0.236512935
60A	60.1030022	0.030051501	0.399003229	0.006648568	0.398783951	-0.054986736	3012.657434	-0.421914464
70A	69.9739932	0.034986997	0.46463118	0.006668495	0.465806284	0.252273028	3012.023136	-0.40077121
80A	80.0233128	0.040011656	0.531645015	0.006610409	0.528171932	-0.657566664	3010.403955	-0.346798512
90A	90.082911	0.045041456	0.598143077	0.006660375	0.599171083	0.171571327	3012.085719	-0.402857292
100A	100.0473256	0.050023663	0.664509819	0.006625956	0.66209424	-0.3648391	3011.161694	-0.372056454
120A	119.8990884	0.029974772	0.796046723	0.006639306	0.7952318	-0.102476123	3012.363092	-0.412103072

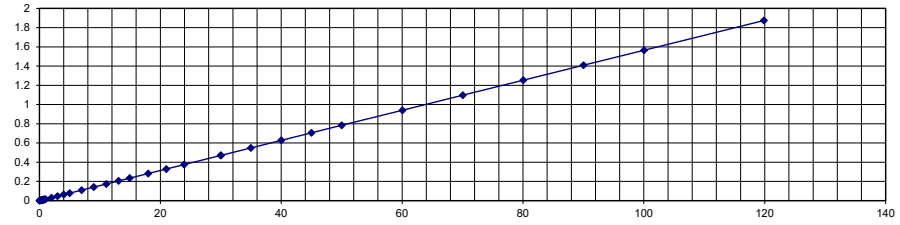
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
URNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	47
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000829176	0.000829176	2.48384E-05	0.015653976	-0.000816196	103.0431938	1568.991026	47.70029914
0.1A	0.100709769	0.100709769	0.001588367	0.01584467	0.000766537	-107.2133997	2980.016419	0.666119375
0.2A	0.199723675	0.199723675	0.003157209	0.015690574	0.002304603	-36.99581367	2973.199246	0.893358482
0.3A	0.300823335	0.300823335	0.004743521	0.015651474	0.003879152	-22.28241244	2980.633213	0.645559573
0.4A	0.398508167	0.398508167	0.006272433	0.015654333	0.005409203	-15.95853335	2986.063683	0.464543894
0.5A	0.500012414	0.500012414	0.007861414	0.015758033	0.007050036	-11.50885094	2989.358288	0.354723721
0.6A	0.597177961	0.597177961	0.009392552	0.015764351	0.008584947	-9.407225012	2988.257506	0.391416456
0.7A	0.696050013	0.696050013	0.010951206	0.015785953	0.010158636	-7.801926297	2987.282972	0.423900928
0.8A	0.794363216	0.794363216	0.012503173	0.015534279	0.011510683	-8.622337069	2986.047618	0.465079391
0.9A	0.905123542	0.905123542	0.014223755	0.015610369	0.013300136	-6.944433371	2990.828081	0.305730623
1A	1.0003981	1.0003981	0.015711026	0.015711446	0.014888525	-5.524398042	2992.720533	0.242648907
2A	2.00021951	2.00021951	0.031419667	0.01564825	0.030470758	-3.114160516	2992.085112	0.263829586
3A	3.0018798	3.0018798	0.047093897	0.015630379	0.046091343	-2.175146009	2995.894564	0.13684788
4A	4.01614412	0.040161441	0.062947233	0.015734954	0.062364666	-0.934130181	2998.682616	0.043912791
5A	4.99547457	0.049954746	0.078356953	0.015542253	0.076811753	-2.011670965	2996.381269	0.120624357
7A	6.97596258	0.034879813	0.109138198	0.015889602	0.11001609	0.797967171	3004.174957	-0.139165226
9A	8.99359944	0.044967997	0.141197644	0.015488523	0.138468392	-1.971028731	2993.670161	0.210994625
11A	11.04766055	0.022095321	0.173012016	0.01574758	0.173144747	0.076658914	3001.179096	-0.039303214
13A	13.08873455	0.026177469	0.205153993	0.015703754	0.20471309	-0.215376228	2998.579335	0.047355509
15A	14.9517868	0.029903574	0.234410907	0.015704724	0.233984507	-0.182234163	2997.872363	0.070921245
18A	17.9856721	0.035971344	0.282057238	0.01566944	0.28099623	-0.377588083	2997.00371	0.099876336
21A	20.98689235	0.041973785	0.329084678	0.015644217	0.327494322	-0.485613344	2997.356019	0.088132691
24A	23.9493386	0.047898677	0.37542983	0.015675032	0.37457748	-0.227549692	2998.213845	0.059538494
27A	30.0669739	0.030066974	0.471323961	0.014948508	0.448627216	-5.059154729	2998.251501	0.058283316
30A	29.9789995	0.029979	0.470008875	0.015691508	0.469586533	-0.089939105	2997.843342	0.071888607
35A	34.993197	0.034993197	0.548689195	0.015677001	0.547759208	-0.169780304	2997.471563	0.08428123
40A	40.0133573	0.040013357	0.627390253	0.015693701	0.627128503	-0.041737867	2997.54066	0.081977998
45A	45.0125526	0.045012553	0.705846131	0.015701822	0.705949905	0.014699904	2997.239596	0.092013482
50A	50.0230885	0.050023089	0.784520673	0.015536206	0.776339853	-1.05376792	2996.842837	0.105238761
60A	60.0572176	0.030028609	0.940412974	0.015709633	0.9426477	0.237069073	3001.5422	-0.051406678
70A	70.0517446	0.035025872	1.09742333	0.015561747	1.089298384	-0.745887993	3000.147624	-0.004920805
80A	80.0430274	0.040021514	1.25290515	0.015644116	1.251373252	-0.122417345	3002.639336	-0.08797787
90A	90.0124726	0.045006236	1.40886831	0.015554336	1.399255025	-0.6870288	3002.825872	-0.09419575
100A	100.031989	0.050015995	1.56471523	0.015602806	1.559950581	-0.305435894	3004.702321	-0.156744027
120A	119.863008	0.029965752	1.87413478	0.015635639	1.873305604	-0.044262736	3005.953166	-0.198438876

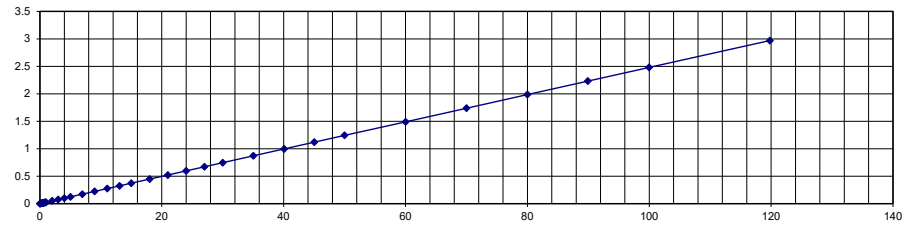
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
TURNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	75
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000850274	0.000850274	3.16877E-05	0.025093924	-0.000828937	103.8226912	2012.469304	32.91768985
0.1A	0.099388597	0.099388597	0.002504401	0.025008252	0.001635261	-53.14989787	2976.418307	0.786056448
0.2A	0.19722562	0.19722562	0.004951134	0.024561567	0.003993896	-23.96750758	2987.582644	0.413911857
0.3A	0.299510667	0.299510667	0.007463415	0.025437954	0.006768665	-10.26421296	3009.788486	-0.326282882
0.4A	0.40103463	0.40103463	0.010045977	0.024376939	0.008925723	-12.5508477	2993.994327	0.200189097
0.5A	0.494418513	0.494418513	0.01232239	0.02454228	0.011283884	-9.203443741	3009.269206	-0.308973546
0.6A	0.599639815	0.599639815	0.014904761	0.024654905	0.013933789	-6.968469593	3017.357161	-0.578572023
0.7A	0.699849129	0.699849129	0.017375412	0.025182171	0.016773446	-3.588799227	3020.859913	-0.695330431
0.8A	0.801686887	0.801686887	0.019939908	0.024738879	0.018982561	-5.043293547	3015.38593	-0.51286434
0.9A	0.900766493	0.900766493	0.022391026	0.025405956	0.02203456	-1.617758315	3017.168006	-0.572266879
1A	1.00231121	1.00231121	0.024970867	0.024933493	0.024140846	-3.438242212	3010.441818	-0.348060609
2A	2.01578	2.01578	0.050240184	0.024686829	0.048912942	-2.713476733	3009.214725	-0.307157517
3A	3.0010667	3.0010667	0.074563788	0.02499364	0.074157307	-0.548132848	3018.623509	-0.620783646
4A	4.00586657	0.040058666	0.099677394	0.024729931	0.098214529	-1.489458556	3014.123671	-0.470789044
5A	5.01365645	0.050136565	0.124599968	0.024808599	0.123531521	-0.864918751	3017.851768	-0.595058941
7A	6.97305364	0.034865268	0.173209868	0.024907219	0.172829098	-0.220315781	3019.337345	-0.644578171
9A	8.99389192	0.04496946	0.223543329	0.024694348	0.221248019	-1.037437398	3017.499547	-0.583318234
11A	11.04844865	0.022096897	0.274279267	0.024855111	0.273760141	-0.189627907	3021.131192	-0.704373054
13A	13.08320325	0.026166407	0.324853318	0.025023981	0.32654355	0.517612941	3020.564019	-0.685467295
15A	14.9862779	0.029972556	0.372475821	0.024701512	0.369333449	-0.850822372	3017.56726	-0.585575325
18A	18.00838335	0.036016767	0.447126395	0.025002557	0.44940535	0.507104595	3020.686693	-0.689556417
21A	20.98597065	0.041971941	0.52157369	0.024892338	0.521539593	-0.006537791	3017.690173	-0.58967243
24A	23.9946097	0.047989219	0.596465749	0.024840866	0.595196607	-0.21323069	3017.098183	-0.569939432
27A	26.9940981	0.026994098	0.670975638	0.024892971	0.671113015	0.020470035	3017.33363	-0.577787669
30A	30.0115992	0.030011599	0.746090204	0.024883261	0.745936173	-0.020649355	3016.887138	-0.562904589
35A	35.0385137	0.035038514	0.871176228	0.024872318	0.870638795	-0.061728619	3016.483282	-0.549442736
40A	40.0847414	0.040084741	0.99668761	0.024872607	0.99616175	-0.052788627	3016.346922	-0.544897413
45A	45.018219	0.045018219	1.11939606	0.024824518	1.116705304	-0.24095486	3016.239333	-0.541311089
50A	50.001345	0.050001345	1.24309976	0.024569729	1.227669202	-1.256898708	3016.733649	-0.557788299
60A	60.0223918	0.030011196	1.48931416	0.024782343	1.486645202	-0.179528897	3022.652645	-0.755088168
70A	70.0196848	0.035009842	1.7370705	0.024897457	1.742461815	0.309407919	3023.17975	-0.772658335
80A	80.019047	0.040009524	1.98602919	0.024725518	1.977662135	-0.423078104	3021.822919	-0.727430648
90A	89.9205256	0.044960263	2.23084838	0.024761587	2.225724688	-0.230203335	3023.082824	-0.769427459
100A	99.9673346	0.049983667	2.47962332	0.024710112	2.469353747	-0.415881008	3023.664939	-0.788831305
120A	119.7934132	0.029948353	2.96952794	0.024788741	2.968677666	-0.0286415	3025.567084	-0.85223613

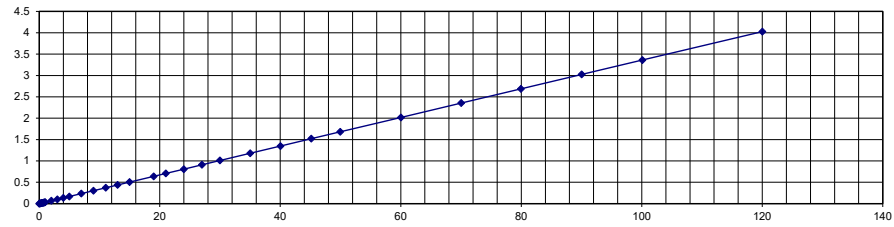
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
TURNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	100
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000904555	0.000904555	4.10684E-05	0.033829503	-0.000873955	104.6991422	2202.559471	26.58135096
0.1A	0.100133481	0.100133481	0.003397934	0.034244294	0.002524445	-34.60120265	2946.8934	1.770219995
0.2A	0.196136908	0.196136908	0.006685503	0.033367724	0.005640087	-18.53546088	2933.764336	2.207855455
0.3A	0.295240228	0.295240228	0.009992355	0.033179814	0.008891481	-12.38148412	2954.660997	1.511300094
0.4A	0.400534812	0.400534812	0.01348601	0.034617617	0.012961006	-4.050645426	2970.002314	0.999922876
0.5A	0.501362609	0.501362609	0.016976428	0.033266814	0.015774181	-7.621611006	2953.286776	1.55710748
0.6A	0.599099471	0.599099471	0.020227822	0.034428886	0.019721772	-2.565945664	2961.759625	1.274679156
0.7A	0.700350101	0.700350101	0.023713769	0.032690012	0.021989898	-7.839374856	2953.347959	1.555068026
0.8A	0.799588899	0.799588899	0.026957886	0.034220022	0.026457395	-1.891687481	2966.066761	1.131107977
0.9A	0.898016149	0.898016149	0.030326069	0.033580281	0.02925108	-3.675041221	2961.201977	1.293267417
1A	0.999015908	0.999015908	0.033717669	0.033650776	0.032713105	-3.070830627	2962.885439	1.237152047
2A	2.00868053	2.00868053	0.067693667	0.033584151	0.066555274	-1.710446608	2967.309388	1.089687069
3A	3.0010716	3.0010716	0.101022278	0.033450156	0.099481758	-1.548545263	2970.702759	0.976574692
4A	4.00082072	0.040008207	0.134464042	0.033996092	0.135107715	0.476414495	2975.383352	0.820554936
5A	5.00446384	0.050044638	0.168583986	0.033592797	0.167209381	-0.822086046	2968.5286	1.049046655
7A	6.983265	0.034916325	0.235057451	0.033982558	0.23640465	0.569870122	2970.875831	0.970805644
9A	8.99182082	0.044959104	0.303313315	0.033235402	0.29794222	-1.802730363	2964.532177	1.18226077
11A	11.05265595	0.022105312	0.371805998	0.03388208	0.373582421	0.475510343	2972.694365	0.910187845
13A	12.99952965	0.025999059	0.437770129	0.033420217	0.433542546	-0.975125267	2969.487589	1.017080359
15A	14.9937451	0.02998749	0.504417242	0.033674728	0.504005726	-0.081649056	2972.488617	0.917046104
18A	19.0081257	0.038016251	0.639600415	0.033848391	0.642489911	0.449734003	2971.875136	0.937495483
21A	21.00705955	0.042014119	0.707261109	0.033394279	0.700611062	-0.949178088	2970.198599	0.993380037
24A	24.00701995	0.04801404	0.807442625	0.034042867	0.816363238	1.092725921	2973.216821	0.892772619
27A	26.9979313	0.026997931	0.909261823	0.033669766	0.908109469	-0.126895901	2969.214215	1.026192834
30A	29.9977516	0.029997752	1.01026507	0.033781589	1.01246716	0.21749738	2969.295138	1.023495415
35A	35.0114234	0.035011423	1.17963487	0.033603666	1.175607632	-0.342566468	2967.988171	1.067060974
40A	40.0306046	0.040030605	1.34829776	0.033729027	1.349288801	0.073449135	2968.973604	1.034213194
45A	45.1440005	0.045144001	1.52076763	0.033502204	1.511518955	-0.611879504	2968.500881	1.049970621
50A	49.9621674	0.049962167	1.68218684	0.0330445	1.66305795	-1.150223896	2970.072421	0.997585976
60A	60.0245966	0.030012298	2.01731051	0.033692022	2.021445503	0.20455623	2975.476324	0.817455878
70A	70.0412458	0.035020623	2.35479168	0.033570797	2.350435855	-0.185319866	2974.413677	0.852877426
80A	79.9630926	0.039981546	2.68787598	0.033469801	2.675444242	-0.4646607	2974.954693	0.834843578
90A	90.039667	0.045019834	3.02513692	0.033508177	3.016160552	-0.297609087	2976.383198	0.787226737
100A	100.1110206	0.05005551	3.36260962	0.033393556	3.342158407	-0.611916341	2977.182365	0.760587844
120A	120.0210572	0.030005264	4.02747654	0.033556416	4.026571985	-0.022464647	2980.056023	0.664799238

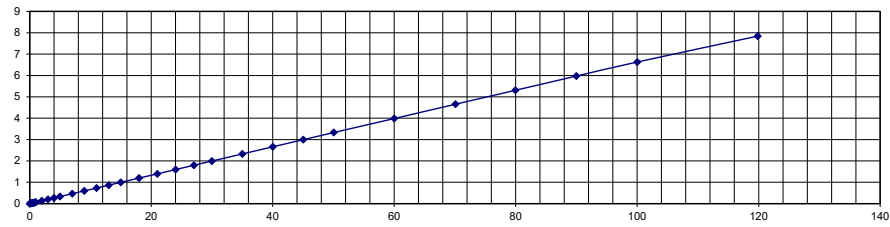
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
TURNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000847621	0.000847621	6.85025E-05	0.066712812	-0.000791074	108.6594356	2474.714522	17.50951594
0.1A	0.1000872	0.1000872	0.006689054	0.066597821	0.005817968	-14.97232981	2992.566698	0.247776744
0.2A	0.199861582	0.199861582	0.01333381	0.066977617	0.012538632	-6.341831592	2997.816468	0.072784396
0.3A	0.300687649	0.300687649	0.0200869	0.066405096	0.019119571	-5.05936485	2993.868118	0.204396065
0.4A	0.400884057	0.400884057	0.026740452	0.066859258	0.02595519	-3.025454319	2998.334164	0.055527857
0.5A	0.506091727	0.506091727	0.033774559	0.067447214	0.033286856	-1.465152386	2996.881333	0.103955564
0.6A	0.597611653	0.597611653	0.039947323	0.064563578	0.037736326	-5.859068762	2991.998503	0.266716579
0.7A	0.699125977	0.699125977	0.046501451	0.067580322	0.046399538	-0.219642955	3006.899621	-0.229987375
0.8A	0.801891202	0.801891202	0.053446358	0.065717883	0.051850971	-3.076869562	3000.732817	-0.024427234
0.9A	0.901661721	0.901661721	0.060003065	0.066112219	0.058763236	-2.109872259	3005.38553	-0.179517662
1A	1.00106856	1.00106856	0.066575072	0.066586315	0.065809846	-1.162783622	3007.337521	-0.244584039
2A	2.00301508	2.00301508	0.133290999	0.066394508	0.132141579	-0.869839869	3005.478881	-0.182562715
3A	3.00122893	3.00122893	0.199566916	0.0658982	0.196927962	-1.340060557	3007.741955	-0.258065153
4A	4.00228678	0.040022868	0.265534826	0.067026305	0.267410872	0.701559175	3014.509878	-0.483662609
5A	4.99892918	0.049989292	0.332336083	0.066132633	0.329744729	-0.785866681	3008.357785	-0.278592178
7A	7.00719234	0.035035962	0.465147814	0.066913096	0.468025316	0.614817636	3012.888432	-0.429614402
9A	8.97843102	0.044892155	0.597049498	0.066347109	0.594845324	-0.370545723	3007.600224	-0.253340804
11A	11.0110119	0.022022024	0.731905364	0.066524156	0.73165065	-0.034813651	3008.862195	-0.295406497
13A	13.01244465	0.026024889	0.865048988	0.067032687	0.871411509	0.730139676	3008.487341	-0.282911377
15A	14.97404025	0.029948081	0.996540012	0.066061531	0.988360408	-0.827593225	3005.206027	-0.173534226
18A	17.99525205	0.035990504	1.19612589	0.066415139	1.194309554	-0.152082551	3008.922756	-0.297425215
21A	21.01263275	0.042025266	1.39652565	0.066593024	1.398447138	0.137401567	3009.272726	-0.309090874
24A	24.01927275	0.048038546	1.5967469	0.066904651	1.606153451	0.58565706	3008.525991	-0.284199706
27A	27.0411743	0.027041174	1.79892617	0.066336092	1.792958194	-0.332856372	3006.368438	-0.212281271
30A	30.000724	0.030000724	1.99525113	0.066501415	1.994242982	-0.050552911	3007.212831	-0.240427713
35A	35.0136095	0.03501361	2.32861511	0.06600256	2.331067735	0.105214643	3007.247471	-0.24158236
40A	40.0309749	0.040030975	2.66277293	0.066511382	2.661667826	-0.041519235	3006.713374	-0.223779126
45A	45.036371	0.045036371	2.99568874	0.066513519	2.994679905	-0.03368756	3006.745687	-0.224856249
50A	50.0514931	0.050051493	3.32926216	0.065888622	3.296976268	-0.979257647	3006.761901	-0.225396689
60A	60.0187262	0.030009363	3.98598941	0.066448749	3.987321629	0.03341138	3011.484479	-0.382815953
70A	70.095787	0.035047894	4.65559749	0.066109642	4.633159775	-0.484285373	3011.247736	-0.374924523
80A	79.9685544	0.039984277	5.30828261	0.066310892	5.301938543	-0.119655613	3012.972755	-0.432425168
90A	89.9942974	0.044997149	5.97309857	0.065685529	5.91047542	-1.059528128	3013.320351	-0.444011703
100A	100.008374	0.050004187	6.63087849	0.061067403	6.106404048	-8.58892465	3016.444176	-0.548139185
120A	119.8468792	0.02996172	7.84236448	0.065436535	7.841516859	-0.010809401	3056.396563	-1.879885423

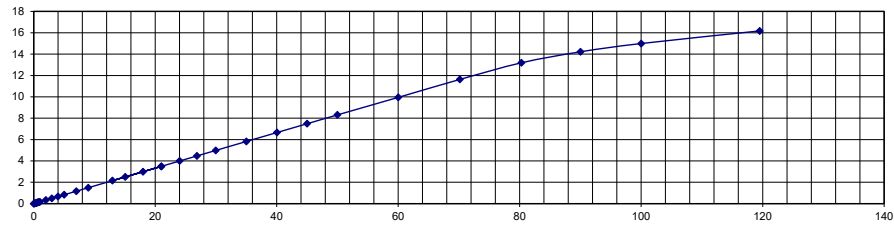
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
TURNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	500
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.00809985	0.00809985	0.000185234	0.166176711	-0.000675384	127.4265263	2186.377642	27.12074527
0.1A	0.099017806	0.099017806	0.016505087	0.166903431	0.015716427	-5.018062398	2999.614761	0.012841293
0.2A	0.200767838	0.200767838	0.033487517	0.166124024	0.032542377	-2.904336002	2997.651937	0.078268768
0.3A	0.29925732	0.29925732	0.049848986	0.1654631	0.048706059	-2.346579685	3001.639008	-0.054633609
0.4A	0.401519291	0.401519291	0.066769568	0.167340501	0.066380455	-0.586187005	3006.75368	-0.225122667
0.5A	0.500081287	0.500081287	0.083262982	0.167092331	0.082749763	-0.620205805	3003.022915	-0.100763826
0.6A	0.597999371	0.597999371	0.099624343	0.166822933	0.098950024	-0.681474248	3001.271338	-0.042377929
0.7A	0.701372766	0.701372766	0.116869396	0.166093638	0.115683569	-1.02506049	3000.66909	-0.022302674
0.8A	0.800313058	0.800313058	0.133302749	0.168612771	0.134133018	0.61898897	3001.862542	-0.062084741
0.9A	0.907546448	0.907546448	0.151383668	0.16999798	0.153471078	1.360132481	2997.504486	0.083183786
1A	1.00328908	1.00328908	0.167659722	0.165628009	0.165362788	-1.389026958	2992.039674	0.265344191
2A	2.0003347	2.0003347	0.332798403	0.16646352	0.332172771	-0.188345244	3005.324989	-0.177498949
3A	2.99536111	2.99536111	0.498434002	0.164211556	0.491062925	-1.501045293	3004.772044	-0.159068134
4A	3.99329562	0.39932956	0.662306381	0.168268386	0.671135423	1.315538019	3014.689073	-0.489635778
5A	5.02194738	0.050219474	0.835395952	0.165448099	0.830061661	-0.642637866	3005.728821	-0.190960705
7A	7.01996102	0.035099805	1.16596351	0.167389732	1.17425941	0.706479327	3010.36909	-0.345636317
9A	8.98987032	0.044949352	1.4957061	0.166090815	1.492324907	-0.22657217	3005.226201	-0.174206684
11A	21.0082453	0.042016491	3.4918478	0.166126067	3.489207188	-0.075679414	3008.184563	-0.272818783
13A	12.9692357	0.025938471	2.15635875	0.165525916	2.145934628	-0.485761389	3007.207335	-0.240244502
15A	15.07279555	0.030145591	2.50455242	0.166147427	2.503496209	-0.042189454	3009.079672	-0.30265574
18A	17.98651555	0.035973031	2.9886595	0.166807352	2.999473052	0.360515053	3009.127595	-0.304253183
21A	21.0179191	0.042035838	3.4943199	0.166347922	3.495477187	0.033108115	3007.440604	-0.248020127
24A	24.03553485	0.04807107	3.99629401	0.166154068	3.992791908	-0.087710616	3007.228046	-0.240934851
27A	26.8744843	0.026874484	4.46799701	0.166917266	4.485005461	0.379229208	3007.442064	-0.248068802
30A	29.9558968	0.029955897	4.98233796	0.16627069	4.979977637	-0.047396249	3006.208836	-0.206961205
35A	35.0133797	0.03501338	5.82324913	0.166351455	5.82371668	0.00802838	3006.34396	-0.211465336
40A	40.0400687	0.040040069	6.65944616	0.166042515	6.647543734	-0.179049979	3006.261162	-0.208705394
45A	45.011886	0.045011886	7.48497921	0.165803054	7.462298198	-0.303941379	3006.814364	-0.227145454
50A	50.0074225	0.050007423	8.31325442	0.163688767	8.184843355	-1.56888849	3007.692293	-0.256409772
60A	60.007647	0.030003824	9.95017884	0.165673704	9.940879187	-0.093549604	3015.40545	-0.513514991
70A	70.1632596	0.03508163	11.6326968	0.153774915	10.78853931	-7.824576323	3015.777889	-0.525929637
80A	80.2972304	0.020074308	13.1910473	0.105764535	8.491789228	-55.33884491	3043.626051	-1.454201694
90A	90.0116276	0.022502907	14.218486	0.077442568	6.969921645	-103.9977883	3165.302818	-5.510093925
100A	100.003884	0.025000971	14.992312	0.060537207	6.053145816	-147.6780249	3335.172187	-11.17240623
120A	119.528062	0.029882016	16.1742512	0.135317606	16.17344122	-0.005008115	3695.010685	-23.16702282

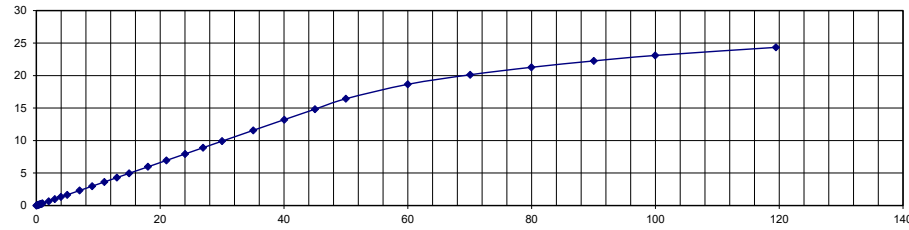
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3111-3000
Lot #:	31525
URNS/RATIO:	3000
DATE:	August 3, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	1000
MEASUREMENT CT TURNS RATIO:	3000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR		Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000759788	0.000759788	0.000375729	0.330231162	-0.000508882	173.8341873		2022.169536	32.59434879
0.1A	0.101420227	0.101420227	0.033616943	0.331558671	0.032866968	-2.28184975		3016.937846	-0.564594867
0.2A	0.199843967	0.199843967	0.066250187	0.330319112	0.065252494	-1.528973074		3016.504186	-0.550139527
0.3A	0.300354274	0.300354274	0.099450663	0.33021256	0.09926457	-0.187471325		3020.133463	-0.671115421
0.4A	0.400714971	0.400714971	0.132872908	0.329151398	0.131136105	-1.324427672		3015.776331	-0.525877706
0.5A	0.500217301	0.500217301	0.165624239	0.336470076	0.167548366	1.14840066		3020.193808	-0.673126917
0.6A	0.599260177	0.599260177	0.198949203	0.324663799	0.193798298	-2.657868956		3012.126553	-0.404218424
0.7A	0.700101968	0.700101968	0.231688882	0.336458717	0.234795622	1.323167818		3021.733119	-0.724437294
0.8A	0.802982037	0.802982037	0.266303778	0.329021572	0.263438625	-1.087598054		3015.285938	-0.509531262
0.9A	0.904193273	0.904193273	0.299604458	0.34909422	0.314888857	4.853902907		3017.956672	-0.598555735
1A	1.00428868	1.00428868	0.334547186	0.328754457	0.329404592	-1.561178717		3001.934322	-0.064477402
2A	1.99547392	1.99547392	0.660403751	0.330477309	0.658699064	-0.25879608		3021.59689	-0.719896325
3A	3.00123952	3.00123952	0.99278646	0.331933365	0.995451745	0.267746321		3023.046386	-0.768212868
4A	3.98601895	0.03986019	1.31966761	0.330094798	1.315004333	-0.354620689		3020.471913	-0.682397087
5A	4.99902628	0.049990263	1.65405606	0.330638997	1.652113246	-0.117595684		3022.283465	-0.74278216
7A	6.99589506	0.034979475	2.31429875	0.329415114	2.30379378	-0.455985707		3022.900591	-0.763353046
9A	9.013228	0.04506614	2.97883871	0.330268383	2.976024451	-0.094564368		3025.752274	-0.858409126
11A	11.00345505	0.02200691	3.63614778	0.330224519	3.632850866	-0.090752813		3026.129771	-0.870992378
13A	13.01913575	0.026038272	4.30177497	0.332705483	4.330778059	0.669696952		3026.456716	-0.881890544
15A	14.9918348	0.02998367	4.95810276	0.329585195	4.940327011	-0.359809162		3023.70393	-0.790130995
18A	18.0448537	0.036089707	5.96433259	0.329447997	5.944081124	-0.340699696		3025.460674	-0.848689146
21A	21.01604065	0.042032081	6.94318418	0.330025504	6.935069624	-0.117007559		3026.859162	-0.895305406
24A	24.020427	0.048040854	7.9347083	0.331690718	7.966592894	0.400228737		3027.260246	-0.908674866
27A	26.9491795	0.02694918	8.90614832	0.328397108	8.849272815	-0.642713885		3025.907332	-0.863577728
30A	30.0051777	0.030005178	9.90972929	0.329917228	9.898465269	-0.113795627		3027.85039	-0.928346348
35A	35.0332401	0.03503324	11.5685737	0.328422449	11.50494271	-0.553075259		3028.311096	-0.943703198
40A	40.0555259	0.040055256	13.2180051	0.325134362	13.02266807	-1.499977026		3030.376036	-1.012534536
45A	45.0307232	0.045030723	14.8356127	0.320568488	14.43467104	-2.777629355		3035.31267	-1.17708901
50A	50.0163455	0.050016346	16.4338461	0.222234341	11.11458978	-47.85832342		3043.496038	-1.449867945
60A	60.0112018	0.030005601	18.6550464	0.146050028	8.763877915	-112.8629196		3216.88837	-7.229612323
70A	70.0808048	0.035040402	20.1257122	0.115908414	8.122195164	-147.7866118		3482.152786	-16.07175952
80A	79.9779396	0.039989897	21.2728734	0.097492032	7.796452032	-172.8532583		3759.620908	-25.32069692
90A	90.0718948	0.045035947	22.2569536	0.084683933	7.626882514	-191.8224263		4046.910301	-34.89701004
100A	99.9872314	0.049993616	23.0966233	0.063720729	6.370499522	-262.5559223		4329.08439	-44.30281301
120A	119.4735636	0.029868391	24.3383066	0.203712904	24.33754681	-0.003121875		4908.869198	-63.62897327