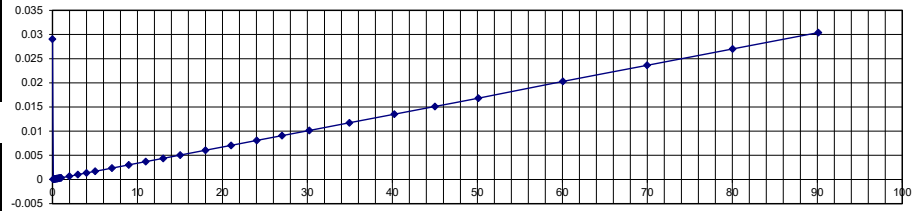


**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb



<b>TEST SETUP</b>	
<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	1
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000899412	0.000899412	0.029039717	-0.292000566	-0.001162041	2599.027329	0.030971789	99.99896761
0.1A	0.100167467	0.100167467	5.33889E-05	0.000213044	-0.000878072	106.0802461	1876.184008	37.46053306
0.2A	0.200607558	0.200607558	7.47871E-05	0.000443765	-0.000810389	109.2285322	2682.383528	10.58721573
0.3A	0.300895833	0.300895833	0.000119291	0.00022477	-0.00083178	114.3417091	2522.359091	15.92136364
0.4A	0.400702922	0.400702922	0.000141725	0.000433241	-0.000725811	119.526436	2827.326422	5.755785928
0.5A	0.500130426	0.500130426	0.000184801	0.000246213	-0.00076273	123.8061894	2706.317321	9.789422631
0.6A	0.601626389	0.601626389	0.000209791	0.000394135	-0.00066229	131.6765611	2867.745275	4.408490839
0.7A	0.700229812	0.700229812	0.000248654	0.000252338	-0.00072717	134.4053975	2816.083622	6.130545942
0.8A	0.801353555	0.801353555	0.000274171	0.000448447	-0.000540047	150.7679991	2922.822378	2.57258741
0.9A	0.900553683	0.900553683	0.000318657	0.000235071	-0.000687718	146.335471	2826.089494	5.797016882
1A	1.00148803	1.00148803	0.000342384	0.000337488	-0.000561422	160.9851132	2925.043733	2.498542248
2A	1.99310562	1.99310562	0.000677043	0.000335329	-0.000231067	393.0072367	2943.840734	1.871975526
3A	2.99080331	2.99080331	0.001011599	0.000343814	0.000128868	-684.9913661	2956.510479	1.449650704
4A	4.00650347	0.040065035	0.001360811	0.000329368	0.000420202	-223.8468126	2944.203061	1.859897967
5A	5.02017464	0.050201746	0.001694682	0.000332765	0.000771126	-119.7670833	2962.311253	1.256291577
7A	7.008712	0.03504356	0.002356397	0.000340587	0.001487661	-58.39606965	2974.333793	0.855540235
9A	8.9906434	0.044950322	0.003031219	0.00033552	0.002116937	-43.18891076	2965.824429	1.139185684
11A	10.98302165	0.021966043	0.003699897	0.000330857	0.002734399	-35.30931147	2968.466873	1.051104218
13A	13.0291153	0.026058231	0.004376862	0.000337729	0.003500902	-25.02097748	2976.816748	0.772775078
15A	15.02538175	0.030050764	0.005051059	0.000337357	0.004169512	-21.14270037	2974.699092	0.843363609
18A	18.01517425	0.036030349	0.006059688	0.000333189	0.005103045	-18.74651359	2972.95407	0.901531006
21A	21.01337355	0.042026747	0.007058655	0.000339888	0.006242789	-13.0689296	2976.965691	0.767810306
24A	24.03470465	0.048069409	0.00808557	0.000332772	0.007098655	-13.90284637	2972.542937	0.91523543
27A	27.011064	0.027011064	0.009076018	0.000331602	0.008057517	-12.64038811	2976.091912	0.796936271
30A	30.2324985	0.030232499	0.010144253	0.000339146	0.009353815	-8.450433293	2980.258753	0.65804156
35A	34.94432	0.03494432	0.011742248	0.000334151	0.010777275	-8.953774874	2975.948123	0.801729241
40A	40.2237299	0.04022373	0.013506369	0.000335995	0.012615554	-7.061245732	2978.130554	0.72898152
45A	45.0084278	0.045008428	0.015114003	0.000335164	0.014185805	-6.543141173	2977.929056	0.735698117
50A	50.1147043	0.050114704	0.016825444	0.000349029	0.016592071	-1.40653166	2978.507058	0.716431407
60A	60.0710404	0.03003552	0.020300494	0.000336098	0.019290369	-5.236421364	2959.092557	1.363581438
70A	69.9832954	0.034991648	0.023631987	0.000336813	0.022671866	-4.234858807	2961.380074	1.287330882
80A	80.046708	0.040023354	0.027021474	0.00033563	0.025966641	-4.06226285	2962.336811	1.255439641
90A	90.1278386	0.045063919	0.030405001	0.000337354	0.029505589	-3.048276666	2964.243876	1.191870808

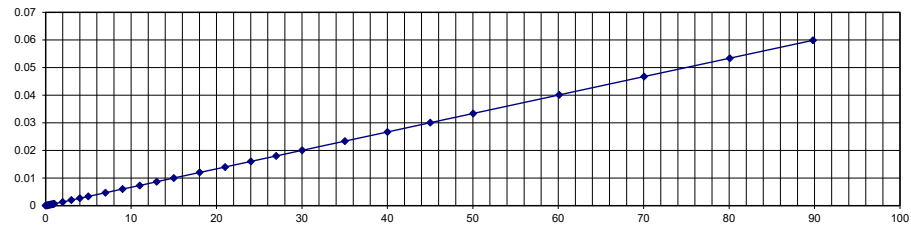
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	2
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000919442	0.000919442	2.39255E-05	0.000574637	-0.000918914	102.6036706	76.85879797	97.43804007
0.1A	0.099556692	0.099556692	8.06061E-05	0.000575671	-0.00086213	109.3496394	2470.202886	17.6599038
0.2A	0.199920161	0.199920161	0.000138382	0.000710329	-0.00077433	117.7999072	2889.387313	3.687089569
0.3A	0.300211798	0.300211798	0.000209622	0.000738828	-0.000697637	130.0474787	2864.309751	4.523008309
0.4A	0.400445705	0.400445705	0.000283678	0.000666502	-0.000692589	140.9590725	2823.240518	5.891982733
0.5A	0.500209678	0.500209678	0.000340195	0.000665757	-0.000586424	158.0116785	2940.727333	1.975755552
0.6A	0.600098829	0.600098829	0.000406696	0.000759671	-0.000463565	187.7323889	2951.08976	1.630341349
0.7A	0.700227497	0.700227497	0.000482761	0.00057322	-0.000518058	193.1867895	2900.926706	3.302443136
0.8A	0.801090862	0.801090862	0.000540578	0.00066568	-0.000386172	239.9837249	2963.829787	1.205673763
0.9A	0.902427498	0.902427498	0.000608036	0.000765446	-0.000228683	365.8860622	2968.335999	1.055466706
1A	1.00083893	1.00083893	0.000683365	0.000653875	-0.000265019	357.854975	2929.150771	2.361640968
2A	2.0041591	2.0041591	0.00133941	0.000677537	0.000438449	-205.4884137	2992.599183	0.246693885
3A	3.00300741	3.00300741	0.002016167	0.00066754	0.001085186	-85.7898966	2978.927887	0.70240377
4A	4.00904865	0.040090487	0.00268774	0.000663899	0.00174216	-54.27625943	2983.212001	0.559599951
5A	5.00396128	0.050039613	0.003348261	0.000665971	0.00241305	-38.75638614	2988.991187	0.366960443
7A	7.01204316	0.035060216	0.004685585	0.000667649	0.003762143	-24.54562852	2993.027865	0.232404494
9A	9.00526122	0.045026306	0.006016356	0.000636838	0.004815454	-24.93850162	2993.593434	0.213552206
11A	11.0129716	0.022025943	0.007294943	0.000693434	0.006717327	-8.598889001	3019.344303	-0.644810105
13A	12.999581	0.025999162	0.008672525	0.000668397	0.007769441	-11.62354156	2997.87682	0.07077266
15A	15.0119339	0.030023868	0.010017576	0.000663167	0.00903597	-10.86331829	2997.119014	0.096032878
18A	18.0292499	0.0360585	0.012018559	0.000663857	0.011049393	-8.771218869	3000.234845	-0.007828171
21A	21.0160137	0.042032027	0.014001342	0.00067213	0.013206052	-6.022160738	3001.999973	-0.066665754
24A	24.02114895	0.048042298	0.016021183	0.000665892	0.015076045	-6.26914091	2998.673488	0.044217083
27A	26.9780422	0.026978042	0.017990155	0.000672266	0.017216992	-4.490697268	2999.200724	0.026642536
30A	30.0176902	0.03001769	0.020033608	0.000666545	0.019088701	-4.950083587	2996.733309	0.108889688
35A	35.0348118	0.035034812	0.023377746	0.000665104	0.022382349	-4.447240161	2997.278886	0.090703784
40A	40.018263	0.040018263	0.026692259	0.000670254	0.025902967	-3.047110611	2998.492068	0.050264386
45A	45.0227201	0.04502272	0.030046517	0.000664439	0.028995403	-3.625107677	2996.86782	0.104406
50A	50.0388644	0.050038864	0.033379438	0.000668372	0.032525115	-2.626655749	2998.184928	0.060502416
60A	60.115593	0.030057797	0.040114438	0.000667968	0.039235855	-2.239233923	2997.204804	0.093173186
70A	70.0484406	0.03502422	0.046749263	0.000663745	0.045574835	-2.576921703	2996.771968	0.107601054
80A	80.0733484	0.040036674	0.053403242	0.000665066	0.052334656	-2.041832734	2998.81975	0.039341681
90A	89.812928	0.044906464	0.05988071	0.00066727	0.058961267	-1.559400464	2999.728241	0.009058621

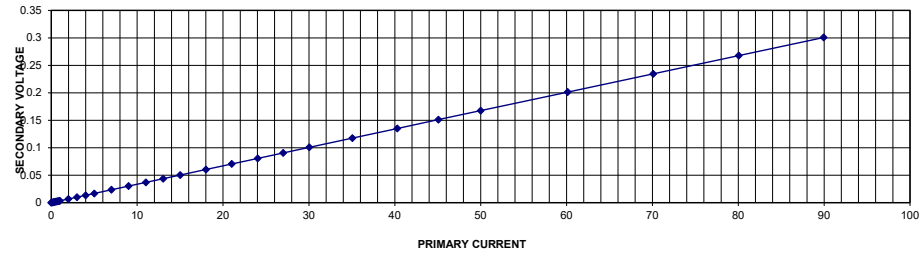
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	10
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000836795	0.000836795	2.57183E-05	0.003178081	-0.000834136	103.0832231	325.3699731	89.15433423
0.1A	0.100891338	0.100891338	0.0003437	0.003445511	-0.000489173	170.2613686	2935.449971	2.151667641
0.2A	0.200499143	0.200499143	0.000686899	0.003294145	-0.000176322	489.5707608	2918.90074	2.70330865
0.3A	0.300656989	0.300656989	0.001016834	0.003284135	0.000150603	-575.1755116	2956.795432	1.440152259
0.4A	0.400429969	0.400429969	0.001344502	0.003454681	0.000546563	-145.9923183	2978.277494	0.724083529
0.5A	0.500788418	0.500788418	0.001691208	0.003354064	0.000842881	-100.6461464	2961.127923	1.295735899
0.6A	0.602367306	0.602367306	0.00203191	0.003234041	0.001111285	-82.84328514	2964.536753	1.182108227
0.7A	0.700473748	0.700473748	0.002349191	0.003441196	0.001573672	-49.2808152	2981.766286	0.60779046
0.8A	0.800819679	0.800819679	0.002694501	0.00335902	0.001853174	-45.39923828	2972.052254	0.931591529
0.9A	0.901066849	0.901066849	0.003031233	0.00326985	0.002109558	-43.69043012	2972.608436	0.913052134
1A	1.00179157	1.00179157	0.003360588	0.003358013	0.002527234	-32.97492048	2981.001201	0.633293315
2A	1.99697317	1.99697317	0.006702421	0.003335423	0.005823954	-15.08367422	2979.480484	0.683983872
3A	3.00154628	3.00154628	0.010053097	0.003343721	0.009199537	-9.278290796	2985.693234	0.476892193
4A	4.00360341	0.040036034	0.013403696	0.003354659	0.01259393	-6.429810138	2986.939923	0.435335902
5A	5.00319339	0.050031934	0.01675698	0.003346156	0.015904669	-5.358871362	2985.736994	0.475433532
7A	7.00223144	0.035011157	0.023446072	0.003359636	0.022688156	-3.340580117	2986.526434	0.449118865
9A	9.01274896	0.045063745	0.03020068	0.003346053	0.029320345	-3.002472285	2984.286764	0.52377452
11A	11.0199941	0.022039988	0.03691703	0.003337559	0.035943081	-2.709697767	2985.070635	0.497645491
13A	13.03437695	0.026068754	0.04364015	0.003358288	0.042936394	-1.639067463	2986.785524	0.440482518
15A	15.0024926	0.030004985	0.050249649	0.003359505	0.049564156	-1.383041267	2985.591509	0.480283021
18A	18.01852735	0.036037055	0.060382034	0.003342569	0.059391367	-1.668030963	2984.08753	0.530415668
21A	21.0150952	0.04203019	0.070398267	0.0033433	0.069422964	-1.404871237	2985.172234	0.494258853
24A	24.04429825	0.048088597	0.0805258	0.003374475	0.08030009	-0.281082963	2985.912361	0.469587965
27A	27.0092787	0.027009279	0.090531053	0.003348896	0.089614478	-1.022798289	2983.426991	0.552433649
30A	30.0527683	0.030052768	0.100723384	0.003348409	0.099792155	-0.933168378	2983.69327	0.543557658
35A	35.0672219	0.035067222	0.117513824	0.003339104	0.1162563	-1.081682537	2984.093335	0.530222158
40A	40.2944948	0.040294495	0.134968231	0.003399285	0.136135687	0.857568246	2985.479953	0.484001552
45A	45.0893854	0.045089385	0.151267432	0.003319015	0.148815562	-1.647589519	2980.772847	0.640905087
50A	50.0120178	0.050012018	0.167605724	0.003322352	0.16532074	-1.382152056	2983.9087	0.536376669
60A	60.1464832	0.030073242	0.201275987	0.003339594	0.200028065	-0.623873661	2988.25926	0.391357995
70A	70.1092846	0.035054642	0.234547703	0.003334059	0.232911663	-0.702429351	2989.12689	0.362437004
80A	80.0559972	0.040027999	0.267710625	0.003330296	0.265773347	-0.728920915	2990.392974	0.320234208
90A	89.9438306	0.044971915	0.300640034	0.003342531	0.299803239	-0.279114834	2991.744958	0.275168055

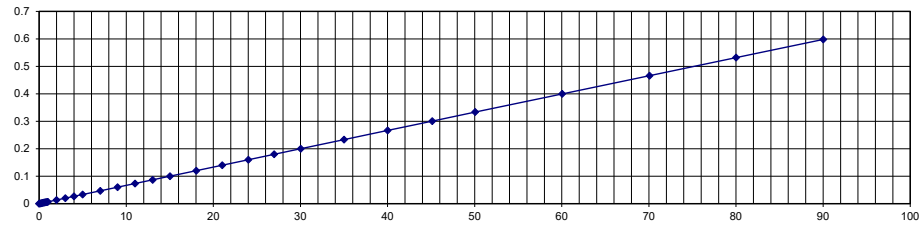
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	20
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000818417	0.000818417	2.40989E-05	0.006631573	-0.000812989	102.9642291	679.215961	77.35946797
0.1A	0.100119417	0.100119417	0.000682621	0.006528468	-0.00016479	514.2356849	2933.383755	2.22054151
0.2A	0.20072985	0.20072985	0.001339453	0.006785958	0.000543727	-146.3463134	2997.192241	0.093591963
0.3A	0.29950505	0.29950505	0.002009737	0.006539942	0.001140329	-76.24186722	2980.539816	0.648672786
0.4A	0.402088166	0.402088166	0.002680625	0.006779115	0.001907385	-40.53922697	2999.958797	0.001373436
0.5A	0.500350742	0.500350742	0.003346758	0.006556496	0.002462131	-35.92933546	2990.062329	0.331255707
0.6A	0.601552229	0.601552229	0.004010285	0.006705271	0.003215154	-24.73073637	3000.047229	-0.001574285
0.7A	0.70076721	0.70076721	0.004675548	0.006628691	0.003826752	-22.18058004	2997.58297	0.080567662
0.8A	0.800363772	0.800363772	0.005335743	0.006623517	0.004482807	-19.02684534	3000.008585	-0.000286183
0.9A	0.901206692	0.901206692	0.006003678	0.006566627	0.005099471	-17.7313828	3002.181949	-0.072731637
1A	0.998962562	0.998962562	0.006645604	0.006664175	0.005838845	-13.81710587	3006.385899	-0.212863309
2A	2.00075713	2.00075713	0.013321739	0.006661421	0.012509468	-6.493246432	3003.747656	-0.124921878
3A	3.00457368	3.00457368	0.020008584	0.006663928	0.019203846	-4.190503674	3003.28473	-0.109491009
4A	4.00943615	0.040094362	0.026704915	0.00666774	0.02591546	-3.04626803	3002.770235	-0.09234118
5A	4.99701714	0.049970171	0.033289848	0.006645362	0.032388569	-2.782707263	3002.126756	-0.070891883
7A	7.01630604	0.03508153	0.046708753	0.0066776	0.046033666	-1.466506035	3004.27892	-0.142630655
9A	9.00687534	0.045034377	0.060000978	0.006640006	0.058987287	-1.718489293	3002.242868	-0.074762282
11A	11.0139383	0.022027877	0.073327887	0.006681202	0.072767932	-0.769508561	3004.024454	-0.134148463
13A	13.0296838	0.026059368	0.08679549	0.006650426	0.085834528	-1.119551762	3002.38728	-0.079575985
15A	15.0181411	0.030036282	0.100019578	0.006646353	0.098997448	-1.032481608	3003.040285	-0.101342826
18A	18.04362975	0.03608726	0.120128043	0.006651424	0.119197422	-0.780739508	3004.066211	-0.135540375
21A	21.02745155	0.042054903	0.139974708	0.006667972	0.139392038	-0.418008151	3004.464428	-0.148814265
24A	24.020168	0.048040336	0.159930057	0.006672058	0.159445536	-0.303878382	3003.834107	-0.127803577
27A	26.9878504	0.02698785	0.179730606	0.006688186	0.179681338	-0.027419378	3003.144651	-0.104821694
30A	30.0398144	0.030039814	0.200142708	0.006649996	0.198946218	-0.601413637	3001.839507	-0.061316915
35A	35.0058184	0.035005818	0.233166613	0.006699688	0.23370966	0.232359789	3002.644156	-0.088138548
40A	40.0129684	0.040012968	0.266712958	0.006588593	0.262810742	-1.484800927	3000.451774	-0.015059136
45A	45.1381453	0.045138145	0.300480662	0.00671128	0.302116299	0.541393208	3004.396023	-0.146534111
50A	50.0589477	0.050058948	0.333505543	0.006607908	0.329966492	-1.072548492	3001.985949	-0.0661983
60A	60.0533764	0.030026688	0.399547806	0.006631654	0.397434798	-0.531661656	3006.067134	-0.202237793
70A	70.0726482	0.035036324	0.46599215	0.00661908	0.462998078	-0.646670533	3007.460456	-0.248681872
80A	80.004001	0.040002001	0.531728573	0.006612223	0.528185864	-0.670731479	3009.20451	-0.306817002
90A	90.0179636	0.045008982	0.597943125	0.006642487	0.597124708	-0.137059608	3010.920599	-0.364019961

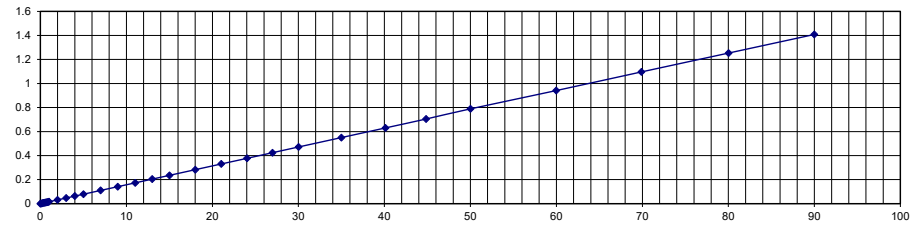
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	47
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000872733	0.000872733	2.40566E-05	0.015726752	-0.000859008	102.8005041	1705.084724	43.16384253
0.1A	0.100569327	0.100569327	0.00159196	0.01561178	0.000697333	-128.2927157	2969.143575	1.026547517
0.2A	0.200236148	0.200236148	0.003147937	0.015826225	0.002296249	-37.0903934	2989.608722	0.346375921
0.3A	0.300543718	0.300543718	0.004735427	0.015581152	0.003810084	-24.28667727	2982.952818	0.568239409
0.4A	0.401071605	0.401071605	0.006301767	0.015767944	0.005451341	-15.60029976	2991.282471	0.290584288
0.5A	0.500651986	0.500651986	0.007871945	0.015755662	0.00701537	-12.20997659	2989.17781	0.360739681
0.6A	0.600865406	0.600865406	0.009450874	0.015579836	0.008488651	-11.33539652	2988.154834	0.394838865
0.7A	0.699595335	0.699595335	0.01098907	0.015745547	0.010142778	-8.343786014	2992.153207	0.261559761
0.8A	0.801033015	0.801033015	0.012586262	0.015772363	0.011761451	-7.012835404	2991.241768	0.291941053
0.9A	0.900744425	0.900744425	0.014158946	0.015582697	0.013163294	-7.563855193	2989.981534	0.333948873
1A	1.00205816	1.00205816	0.015737688	0.015714203	0.014873812	-5.80802732	2992.608255	0.246391515
2A	2.00266409	2.00266409	0.031461413	0.015894949	0.030558977	-2.953094894	2991.76688	0.274437317
3A	3.00077821	3.00077821	0.047126763	0.015721557	0.046304171	-1.776495148	2992.706651	0.243111636
4A	4.00720836	0.040072084	0.062949411	0.015681048	0.061964492	-1.589490226	2991.907141	0.269761951
5A	5.01166071	0.050116607	0.078700276	0.015725757	0.077939427	-0.976205712	2992.976193	0.234126891
7A	7.00711822	0.035035591	0.110080357	0.015726173	0.109322417	-0.693306568	2991.764973	0.274500884
9A	9.00363134	0.045018157	0.141477867	0.015644733	0.139986671	-1.065241479	2991.073317	0.297556088
11A	11.023483	0.022046966	0.173077906	0.015683324	0.172012119	-0.61959982	2993.47105	0.217631668
13A	13.01012445	0.026020249	0.204235047	0.015704761	0.203448166	-0.386772433	2993.980995	0.200633513
15A	15.01713095	0.030034262	0.235754605	0.015719146	0.235183736	-0.242733116	2993.812802	0.206239923
18A	18.0182373	0.036036475	0.282929433	0.015726536	0.282491722	-0.154946421	2993.174461	0.227517969
21A	21.02691215	0.042053824	0.330245466	0.015665574	0.328525907	-0.523416601	2992.516091	0.249463627
24A	24.02515525	0.048050311	0.377214664	0.015821368	0.379238085	0.533549009	2993.47402	0.217532658
27A	26.9851887	0.026985189	0.424046442	0.015728294	0.423558252	-0.115259336	2990.955101	0.301496622
30A	30.0259945	0.030025995	0.47187313	0.015687143	0.470149337	-0.366647992	2990.680443	0.310651898
35A	35.0066992	0.035006699	0.550006157	0.01568563	0.548229392	-0.324091587	2991.44808	0.285063997
40A	40.130607	0.040130607	0.630377878	0.015699881	0.629173026	-0.191497652	2992.076015	0.264132841
45A	44.8573775	0.044857378	0.704587613	0.016393559	0.734499338	4.072396413	2992.242134	0.258595543
50A	50.0295394	0.050029539	0.789377755	0.015256294	0.762392639	-3.539529984	2978.787199	0.707093365
60A	59.9888592	0.02999443	0.941320068	0.015661102	0.938618908	-0.287780275	2995.236666	0.15877779
70A	69.9002666	0.034950133	1.09654363	0.01549163	1.081996337	-1.344486329	2996.061844	0.131271864
80A	80.033026	0.040016513	1.25351659	0.015505742	1.240098746	-1.081998034	3000.799712	-0.02665706
90A	90.000839	0.04500042	1.40807493	0.015645131	1.407202197	-0.062019042	3004.129498	-0.137649943

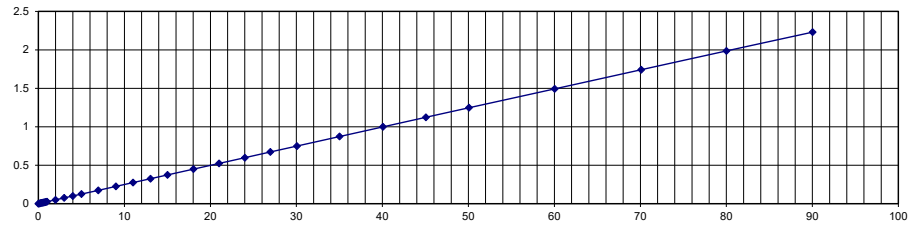
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	75
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000860195	0.000860195	2.25643E-05	0.025048555	-0.000838648	102.6905583	2859.142957	4.695234772
0.1A	0.099591086	0.099591086	0.00249563	0.024794701	0.001609136	-55.09129923	2992.963724	0.234542536
0.2A	0.200110679	0.200110679	0.004987984	0.024981896	0.004138949	-20.51328023	3008.891351	-0.296378376
0.3A	0.300272001	0.300272001	0.007490203	0.024852411	0.006602288	-13.44859656	3006.647329	-0.221577627
0.4A	0.40097638	0.40097638	0.00999295	0.024823958	0.009093626	-9.889609526	3009.444508	-0.314816946
0.5A	0.501644683	0.501644683	0.012491936	0.024952899	0.011657294	-7.159819548	3011.81115	-0.393704996
0.6A	0.601349153	0.601349153	0.014979851	0.024972056	0.01415673	-5.814346323	3010.789999	-0.359666621
0.7A	0.701388064	0.701388064	0.017478029	0.024861054	0.016577051	-4.435087152	3009.727584	-0.324252816
0.8A	0.802459734	0.802459734	0.019990777	0.024810455	0.019049197	-4.94288659	3010.612377	-0.353745883
0.9A	0.901261403	0.901261403	0.022442091	0.024905678	0.021586332	-3.964358905	3011.956623	-0.398554102
1A	1.00119865	1.00119865	0.024931096	0.02491653	0.024086201	-3.507797579	3011.897209	-0.396573619
2A	2.00123623	2.00123623	0.049848562	0.024889237	0.048949047	-1.837655296	3010.973862	-0.365795406
3A	2.99764898	2.99764898	0.074648515	0.024941948	0.073907009	-1.00329511	3011.763521	-0.39211738
4A	4.00960467	0.040096047	0.099888661	0.024845125	0.098758936	-1.143921865	3010.555437	-0.351847895
5A	5.00772173	0.050077217	0.124687004	0.02459981	0.122328808	-1.927752245	3012.175429	-0.405847629
7A	6.97605304	0.034880265	0.17310758	0.0252415	0.175225848	1.208878859	3022.420959	-0.747365309
9A	9.01406932	0.045070347	0.224550168	0.024839579	0.223045495	-0.67460362	3010.708943	-0.356964774
11A	11.0137678	0.022027536	0.274221837	0.024843067	0.272755579	-0.537572197	3012.27865	-0.409288338
13A	13.04209625	0.026084193	0.324611737	0.024896377	0.323840747	-0.238076924	3013.314391	-0.44381305
15A	15.01866985	0.03003734	0.373821258	0.024935682	0.373643584	-0.0475516	3013.205415	-0.440180491
18A	18.02825415	0.036056508	0.448867897	0.024885277	0.447777906	-0.243422277	3012.287291	-0.40957635
21A	21.0187672	0.042037534	0.523287643	0.024915856	0.52284038	-0.085544931	3012.506718	-0.416890601
24A	24.0053277	0.048010655	0.597700354	0.025077143	0.601124834	0.569678746	3012.210994	-0.407033137
27A	26.9715628	0.026971563	0.672085055	0.024888668	0.670426408	-0.247401779	3009.838107	-0.327936916
30A	30.071759	0.030071759	0.749244847	0.024956248	0.749618095	0.049791814	3010.206789	-0.340226297
35A	35.0339539	0.035033954	0.873082616	0.024907764	0.871757256	-0.152033143	3009.505051	-0.316835022
40A	40.074012	0.040074012	0.998619193	0.024962959	0.999505706	0.088695191	3009.706724	-0.32355747
45A	45.0639112	0.045063911	1.12318184	0.024744472	1.114222484	-0.80409036	3009.123919	-0.304130629
50A	50.0807251	0.050080725	1.24732025	0.024626318	1.232443685	-1.207078677	3011.299129	-0.376637636
60A	60.0508496	0.030025425	1.49284771	0.024773517	1.48681052	-0.406049724	3016.927775	-0.564259163
70A	70.1002582	0.035050129	1.7418069	0.024659778	1.727796624	-0.810875317	3018.428372	-0.614279057
80A	80.0132618	0.040066631	1.98625937	0.024363363	1.948531979	-1.936195629	3021.254286	-0.708476205
90A	90.027664	0.045013832	2.23024389	0.024772873	2.229383695	-0.038584422	3027.505122	-0.916837396

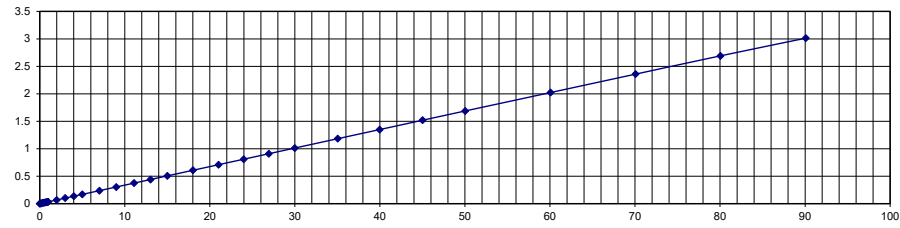
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	100
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000930051	0.000930051	3.48004E-05	0.033727041	-0.000898683	103.8723705	2672.534211	10.91552631
0.1A	0.100271643	0.100271643	0.003385298	0.033712672	0.002450374	-38.15436728	2961.973632	1.26754561
0.2A	0.200572102	0.200572102	0.006766695	0.033642814	0.005817759	-16.31102698	2964.107419	1.196419364
0.3A	0.300965753	0.300965753	0.010144222	0.033626282	0.009190308	-10.3795414	2966.869428	1.104352396
0.4A	0.396039393	0.396039393	0.013341193	0.033644188	0.012394373	-7.639113007	2968.545631	1.048478971
0.5A	0.498825193	0.498825193	0.016799338	0.033791472	0.015925986	-5.483813756	2969.314671	1.022844304
0.6A	0.604020635	0.604020635	0.020354046	0.033543561	0.019330952	-5.292521461	2967.570311	1.080989647
0.7A	0.699894762	0.699894762	0.023570006	0.033722703	0.022672292	-3.959520805	2969.429728	1.019009079
0.8A	0.800851901	0.800851901	0.026974554	0.033712852	0.026068951	-3.47387539	2968.196245	1.036125152
0.9A	0.901006555	0.901006555	0.030351052	0.033738119	0.029468215	-2.995896737	2968.617161	1.046094643
1A	1.00107789	1.00107789	0.033727271	0.033701594	0.03280787	-2.802380876	2968.155603	1.061479886
2A	2.00206689	2.00206689	0.067462197	0.033658301	0.066456119	-1.513896856	2967.687081	1.077097304
3A	3.00104162	3.00104162	0.101085989	0.033879384	0.100743391	-0.34006947	2968.80077	1.039974327
4A	4.00871896	0.04008719	0.135225477	0.033736668	0.134310768	-0.681039346	2964.470194	1.184326876
5A	5.00903065	0.050090307	0.16897266	0.033788262	0.16831639	-0.38990238	2964.403028	1.186565724
7A	7.02854134	0.035142707	0.237208417	0.033707397	0.23598378	-0.518949762	2963.023584	1.232547185
9A	9.00799394	0.04503997	0.303930611	0.033631679	0.302023907	-0.631308853	2963.832406	1.205586473
11A	11.08991835	0.022179837	0.373949224	0.033845114	0.374409499	0.122933449	2965.621437	1.145952104
13A	13.0407785	0.026081557	0.439976308	0.033656555	0.437977565	-0.456357399	2963.972892	1.200903603
15A	15.0133684	0.030026737	0.506366879	0.033697731	0.504986395	-0.273370509	2964.919117	1.169362751
18A	18.01642275	0.036032846	0.607562996	0.033805182	0.608118392	0.091330289	2965.358797	1.154706762
21A	21.03634245	0.042072685	0.70965193	0.033745711	0.70895629	-0.09812164	2964.31836	1.189388014
24A	23.98536995	0.04797074	0.809168961	0.033841648	0.810774393	0.198012229	2964.197974	1.193400859
27A	26.939778	0.026939778	0.909150998	0.033762783	0.908631832	-0.057137164	2963.17972	1.227342655
30A	30.0004662	0.030000466	1.01248835	0.03380212	1.013149309	0.06523806	2963.043101	1.231896644
35A	35.0362459	0.035036246	1.18270838	0.033624669	1.177152107	-0.472009767	2962.37403	1.254198999
40A	39.9770021	0.039977002	1.34883967	0.033709538	1.346676215	-0.160651451	2963.806818	1.206439408
45A	45.0233881	0.045023388	1.51895101	0.0337108	1.516844359	-0.138883772	2964.110613	1.196312886
50A	50.0430958	0.050043096	1.68816937	0.033386113	1.669814398	-1.09922305	2964.340942	1.188635277
60A	60.068114	0.030034057	2.02286576	0.033536134	2.013522261	-0.464037553	2969.456263	1.018124571
70A	70.0674634	0.035033732	2.35820528	0.03333201	2.334559369	-1.012864003	2971.219851	0.959338309
80A	80.0529664	0.040026483	2.69104217	0.032075283	2.566791513	-4.84069923	2974.7942	0.840193324
90A	90.0899534	0.045044977	3.01298137	0.033444144	3.012051319	-0.030877671	2990.060088	0.331330404

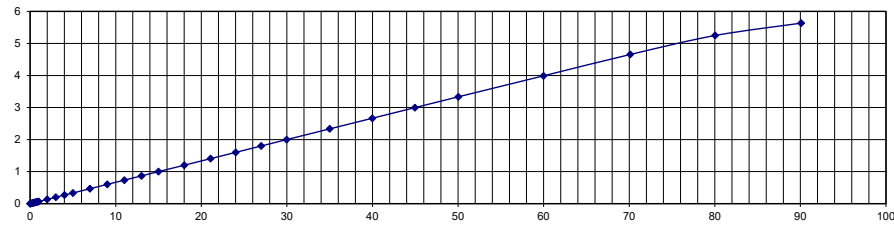
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	200
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



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	0.000916359	0.000916359	5.64466E-05	0.066819942	-0.000855128	106.6009513	3246.818533	-8.227284427
0.1A	0.100661807	0.100661807	0.006721432	0.066442256	0.005771839	-16.45216993	2995.249023	0.158365915
0.2A	0.200664917	0.200664917	0.013365864	0.066455308	0.01241889	-7.625267086	3002.64794	-0.088264653
0.3A	0.301062006	0.301062006	0.020037783	0.066513734	0.0191084	-4.863744382	3004.943226	-0.164774214
0.4A	0.400829822	0.400829822	0.026673713	0.066608066	0.025782141	-3.458101725	3005.429484	-0.180982801
0.5A	0.500105489	0.500105489	0.033286274	0.066618337	0.032399838	-2.735927118	3004.875202	-0.162506726
0.6A	0.601101687	0.601101687	0.040014472	0.066575754	0.039102439	-2.332419814	3004.421413	-0.147380427
0.7A	0.701768053	0.701768053	0.046716412	0.066550125	0.045786393	-2.031211726	3004.374824	-0.145827482
0.8A	0.800917356	0.800917356	0.05331481	0.066429373	0.052288079	-1.963604437	3004.48358	-0.149452657
0.9A	0.901314393	0.901314393	0.059984122	0.066607277	0.059117738	-1.465522634	3005.17657	-0.172552329
1A	1.00305074	1.00305074	0.066760503	0.066578625	0.06586538	-1.359018702	3004.922647	-0.164088238
2A	2.00108757	2.00108757	0.133208423	0.066485715	0.132127378	-0.818183722	3004.446003	-0.148200088
3A	3.00268956	3.00268956	0.199800647	0.067042845	0.200392491	0.295342404	3005.685522	-0.189517404
4A	4.01137701	0.04011377	0.267425923	0.066589315	0.266198488	-0.461097747	2999.991149	0.000295035
5A	5.00282456	0.050028246	0.333445736	0.066668213	0.332613015	-0.250357326	3000.682882	-0.022762724
7A	6.9928434	0.034964217	0.466116736	0.066807796	0.466260098	0.030747259	3000.468707	-0.015623554
9A	9.01905496	0.045095275	0.601483465	0.066402456	0.597971044	-0.587389815	2998.936957	0.035434778
11A	11.0105159	0.022021032	0.733721363	0.066571195	0.732066845	-0.226006433	3001.279901	-0.04266338
13A	13.02499265	0.026049985	0.867827488	0.066711945	0.868006232	0.020592429	3001.746967	-0.058232234
15A	15.0097344	0.030019469	1.00023347	0.06659686	0.998684816	-0.155069329	3001.246179	-0.041539302
18A	18.01879085	0.036037582	1.20062718	0.066652055	1.200073086	-0.046171676	3001.563041	-0.05210138
21A	21.0878701	0.04217574	1.40518762	0.066589624	1.403316989	-0.133300674	3001.431239	-0.047707983
24A	24.01876905	0.048037538	1.60035508	0.066961696	1.607421154	0.439590702	3001.679983	-0.055999447
27A	26.992213	0.026992213	1.79946193	0.066822258	1.802764251	0.183180985	3000.031571	-0.001052352
30A	29.9673223	0.029967322	1.99826545	0.06659656	1.994804234	-0.173511585	2999.333477	0.022217435
35A	35.0071539	0.035007154	2.3339009	0.066624169	2.331406189	-0.107004553	2999.883491	0.003883627
40A	39.9840889	0.039984089	2.66548506	0.066509118	2.658390146	-0.266887595	3000.136035	-0.004534509
45A	44.9637076	0.044963708	2.99667511	0.066628465	2.99494644	-0.057719547	3000.906401	-0.030213374
50A	50.0389101	0.05003891	3.33482806	0.065794463	3.291366841	-1.320461111	3000.988909	-0.032963619
60A	59.9930142	0.029996507	3.98975299	0.065780307	3.945442524	-1.123079762	3007.354809	-0.24516029
70A	70.1273032	0.035063652	4.65638963	0.059711162	4.186466419	-11.22481739	3012.089141	-0.402971361
80A	80.0336046	0.040016802	5.2479064	0.038343393	3.067843618	-71.0617311	3050.115551	-1.670518361
90A	90.0911842	0.045045592	5.63354813	0.062531625	5.632631771	-0.016268748	3198.381628	-6.612720937



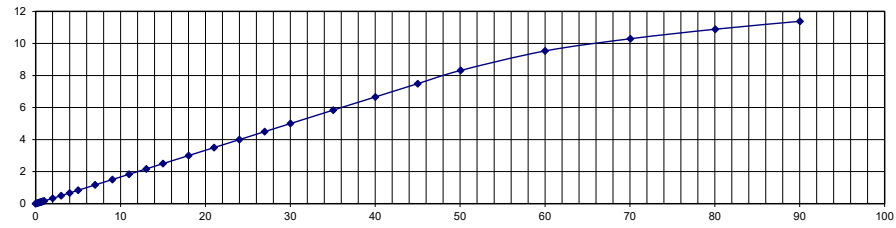
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>TURNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	500
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000908317	0.000908317	0.000253395	0.166012105	-0.000757525	133.4503604	1792.294845	40.2568385
0.1A	0.100537599	0.100537599	0.016793062	0.166227918	0.015803839	-6.259383298	2993.426696	0.219110133
0.2A	0.200051875	0.200051875	0.033335113	0.166481558	0.032396631	-2.896849671	3000.617949	-0.0205983
0.3A	0.301091383	0.301091383	0.050156327	0.166187674	0.04912936	-2.090333498	3001.529404	-0.050980141
0.4A	0.401125925	0.401125925	0.066780835	0.16616257	0.065743798	-1.577392294	3003.301196	-0.110039854
0.5A	0.50159742	0.50159742	0.083475437	0.166255884	0.082485206	-1.200495794	3004.461177	-0.1487059
0.6A	0.601234296	0.601234296	0.100040654	0.166118448	0.098967791	-1.084052304	3004.949848	-0.164994923
0.7A	0.702130182	0.702130182	0.116801322	0.166400121	0.11592623	-0.754869424	3005.660253	-0.188675091
0.8A	0.802284322	0.802284322	0.133466983	0.166318116	0.1325261	-0.709960479	3005.553523	-0.185117443
0.9A	0.901177145	0.901177145	0.149914651	0.166297618	0.148955296	-0.644055719	3005.634002	-0.187800079
1A	1.00178134	1.00178134	0.166644889	0.166385559	0.165773632	-0.525570424	3005.736768	-0.191225587
2A	2.00188821	2.00188821	0.33304823	0.166038661	0.331482521	-0.472335219	3005.402866	-0.180095538
3A	3.00642022	3.00642022	0.49983938	0.168033101	0.504269797	0.878580582	3007.386313	-0.246210426
4A	4.00325777	0.040032578	0.667341085	0.166539758	0.665793262	-0.23247799	2999.409043	0.019698572
5A	5.01460998	0.0501461	0.835771437	0.166743601	0.835245809	-0.062930942	2999.988847	0.000371752
7A	7.00634712	0.035031736	1.16788086	0.166541312	1.165937927	-0.166641214	2999.598401	0.013386639
9A	9.0374688	0.045187344	1.50614653	0.166240941	1.501489004	-0.310193804	3000.195738	-0.006524598
11A	10.9993834	0.021998767	1.83229706	0.166427588	1.829692533	-0.142347805	3001.52842	-0.050947343
13A	13.03830155	0.026076603	2.17162929	0.166436654	2.169142962	-0.114622599	3001.962998	-0.065433283
15A	15.0031393	0.030006279	2.49865031	0.166592879	2.49850785	-0.005701799	3002.248702	-0.074956734
18A	18.0261744	0.036052349	3.00226643	0.166552298	3.001392456	-0.029118938	3002.094388	-0.069812925
21A	21.0228616	0.042045723	3.50137157	0.166370387	3.496673297	-0.134364074	3002.089493	-0.069649753
24A	24.00580045	0.048011601	3.99764426	0.16718367	4.012469512	0.369479491	3002.49333	-0.083110989
27A	26.9889933	0.026988993	4.49638539	0.166382449	4.489586476	-0.151437419	3001.187727	-0.039590912
30A	30.0234835	0.030023484	5.00127113	0.166644478	5.002339405	0.02135211	3001.585167	-0.052838899
35A	35.0556781	0.035055678	5.83985874	0.165654304	5.806215626	-0.579432729	3001.414902	-0.047163412
40A	40.0087266	0.040008727	6.66035254	0.165917878	6.637254717	-0.348002668	3003.499166	-0.116638871
45A	45.0107723	0.045010772	7.49028135	0.163349623	7.351584354	-1.886627285	3004.611589	-0.153719637
50A	50.0645953	0.050064595	8.31582143	0.122339418	6.123965112	-35.79145665	3010.201441	-0.340048027
60A	60.0054646	0.030002732	9.53198159	0.075792078	4.547030561	-109.6309111	3147.586052	-4.919535065
70A	70.063219	0.03503161	10.2942797	0.059436081	4.163374829	-147.2580568	3403.017066	-13.4339022
80A	80.0595376	0.040029769	10.8884217	0.049610455	3.970881772	-174.2066454	3676.360992	-22.54536639
90A	90.0333022	0.045016651	11.3832247	0.126433491	11.38231638	-0.00798007	3954.648378	-31.82161261

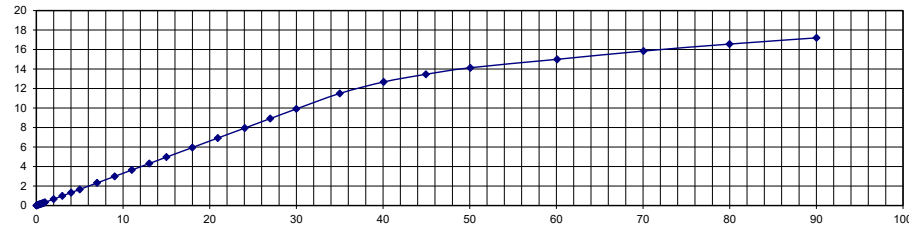
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR3110-3000
<b>Lot #:</b>	31444
<b>URNS/RATIO:</b>	3000
<b>DATE:</b>	June 24, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	1000
<b>MEASUREMENT CT TURNS RATIO:</b>	3000
<b>FREQUENCY(Hz):</b>	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	0.000828836	0.000828836	0.000267188	0.331395304	-0.000554164	148.2146175		3102.071846	-3.402394874
0.1A	0.100395191	0.100395191	0.03326301	0.330070966	0.032308702	-2.95372088		3018.223239	-0.607441312
0.2A	0.20128044	0.20128044	0.066562302	0.330392306	0.065672673	-1.354641659		3023.940488	-0.798016271
0.3A	0.301410696	0.301410696	0.099644568	0.330500095	0.098787428	-0.867661585		3024.858268	-0.82860894
0.4A	0.402044273	0.402044273	0.132903975	0.330581946	0.132079742	-0.624041934		3025.073351	-0.835778363
0.5A	0.499540423	0.499540423	0.165134442	0.330455322	0.164246955	-0.540336868		3025.052902	-0.835096735
0.6A	0.599523464	0.599523464	0.19817437	0.330163776	0.197112095	-0.538919347		3025.232092	-0.841069744
0.7A	0.700490679	0.700490679	0.231510087	0.330342445	0.230572967	-0.406430915		3025.745824	-0.85819414
0.8A	0.800791747	0.800791747	0.264643787	0.330776274	0.264054074	-0.223330277		3025.923095	-0.864103163
0.9A	0.90206616	0.90206616	0.29814296	0.330345873	0.297164997	-0.329097562		3025.616167	-0.85387225
1A	1.00059791	1.00059791	0.330692517	0.330718421	0.330087325	-0.183343102		3025.7652	-0.858840016
2A	2.00129951	2.00129951	0.66164297	0.330542638	0.660685983	-0.144847503		3024.742347	-0.824744902
3A	3.00049867	3.00049867	0.991920896	0.332663893	0.997328732	0.542232029		3024.937454	-0.831248476
4A	4.00931024	0.040093102	1.32751608	0.331336494	1.327601963	0.006469066		3020.159454	-0.671981816
5A	5.00421435	0.050042144	1.65716412	0.330910323	1.65511735	-0.123663164		3019.745775	-0.658192503
7A	7.01837944	0.035091897	2.32367214	0.330943785	2.32186022	-0.078037447		3020.382832	-0.67942775
9A	9.04924432	0.045246222	2.99577425	0.330454503	2.9895347	-0.208713084		3020.669638	-0.688987941
11A	11.01677965	0.022033559	3.64595516	0.330384945	3.638949298	-0.192524321		3021.644306	-0.721476874
13A	13.04291565	0.026085831	4.31535999	0.330375823	4.308235158	-0.165377051		3022.439769	-0.74799229
15A	15.0169759	0.030033952	4.96754177	0.330183774	4.957532934	-0.201891472		3023.019553	-0.767318426
18A	18.0071451	0.03601429	5.95484712	0.330360519	5.948020968	-0.114763417		3023.947506	-0.798250216
21A	20.9400238	0.041880048	6.92375445	0.329413999	6.897108137	-0.386340372		3024.374124	-0.812470802
24A	24.0576193	0.048115239	7.95073405	0.330405677	7.947945164	-0.035089391		3025.83625	-0.861208322
27A	26.9925304	0.02699253	8.92044534	0.328757853	8.873177518	-0.532704563		3025.917359	-0.863911951
30A	29.999823	0.029999823	9.9091164	0.31747672	9.523416557	-4.050015465		3027.497285	-0.916576174
35A	35.013899	0.035013899	11.5009688	0.23245132	8.138198209	-41.3208244		3044.430396	-1.481013205
40A	40.0837248	0.040083725	12.6794565	0.16061409	6.437182144	-96.97215671		3161.312537	-5.377084578
45A	44.9603916	0.044960392	13.4627179	0.131581511	5.915127432	-127.5981042		3339.622202	-11.32074007
50A	50.0751649	0.050075165	14.1357275	0.086259399	4.318624784	-227.3201124		3542.454034	-18.08180112
60A	60.1060266	0.030053013	15.0009836	0.085339341	5.128579851	-192.4978071		4006.8057	-33.56019001
70A	70.060418	0.035030209	15.8504848	0.071808749	5.030122162	-215.1113291		4420.080451	-47.33601503
80A	79.9815238	0.039990762	16.562907	0.063601328	5.086102263	-225.6502945		4828.95447	-60.96514901
90A	90.032586	0.045016293	17.2021679	0.19106602	17.20133906	-0.00481844		5233.793003	-74.45976678