

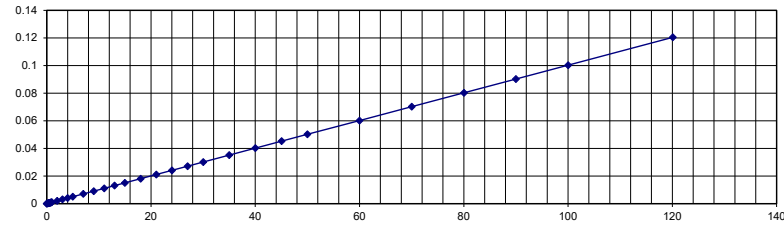
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	1
MEASUREMENT CT TURNS RATIO:	1000
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	0.000624922	0.000624922	2.43044E-05	0.00082592	-0.000624405	103.8924031	25.71230634	97.42876937
0.1A	0.10046094	0.10046094	0.000106761	0.000997147	-0.000524747	120.3452144	940.9895748	5.901042524
0.2A	0.200211166	0.200211166	0.000206227	0.001035795	-0.000417544	149.3904125	970.830983	2.916901701
0.3A	0.299629712	0.299629712	0.000309204	0.001024962	-0.000317812	197.291327	969.0361429	3.096385706
0.4A	0.400798216	0.400798216	0.000412898	0.001022562	-0.000215081	291.9734689	970.6959937	2.93040063
0.5A	0.50111162	0.50111162	0.000515479	0.001009774	-0.000118907	533.513396	972.1367834	2.786321663
0.6A	0.600089759	0.600089759	0.00061542	0.001003102	-2.297E-05	2779.230781	975.0896941	2.491030594
0.7A	0.698127385	0.698127385	0.000713762	0.001001264	7.40886E-05	-863.3901233	978.0956869	2.19043131
0.8A	0.798766345	0.798766345	0.000814528	0.000990775	0.000166476	-389.2761124	980.6492682	1.935073178
0.9A	0.900392989	0.900392989	0.000915217	0.001014351	0.000288393	-217.3510583	983.8025257	1.619747429
1A	0.992258866	0.992258866	0.001008401	0.000999121	0.000366465	-175.170051	983.9919462	1.600805378
2A	1.99003458	1.99003458	0.0020053	0.00101064	0.001386287	-44.65254796	992.3875721	0.76124279
3A	3.03581744	3.03581744	0.00306221	0.001005705	0.002428214	-26.1095375	991.3812407	0.861875931
4A	4.02089729	0.040208973	0.004052909	0.001008003	0.003428154	-18.22425017	992.1014641	0.789853592
5A	5.00262429	0.050026243	0.005042493	0.000999799	0.004376698	-15.21226608	992.0934801	0.790651987
7A	7.00575886	0.035028794	0.007045225	0.00099802	0.006366968	-10.65275685	994.3981591	0.560184089
9A	9.01325664	0.045066283	0.009048748	0.001004924	0.008432714	-7.305287873	996.0777062	0.392229379
11A	11.0247474	0.022049495	0.011070143	0.001007112	0.010478236	-5.648924115	995.8992401	0.410075989
13A	13.0058141	0.026011628	0.0130653	0.001006524	0.012465738	-4.809673538	995.4470467	0.455295331
15A	14.9971249	0.02999425	0.015069601	0.001005022	0.014447522	-4.305788242	995.190562	0.480944376
18A	18.01793405	0.036035868	0.018105582	0.001003779	0.017461098	-3.690967544	995.1590922	0.484090776
21A	21.02918195	0.042058364	0.021128208	0.001003928	0.020486871	-3.130480547	995.3130787	0.468692135
24A	24.0252755	0.048050551	0.024136072	0.001002531	0.023461173	-2.876663317	995.4095264	0.459047364
27A	27.0177979	0.027017798	0.027136169	0.001005283	0.026335606	-2.263234078	995.6378736	0.436212638
30A	30.0158387	0.030015839	0.030150048	0.001005951	0.029569548	-1.963170272	995.5486141	0.445138592
35A	35.0154457	0.035015446	0.035179409	0.001006677	0.034624308	-1.603210228	995.3392281	0.466077189
40A	40.0107538	0.040010754	0.040208069	0.001004678	0.039572997	-1.604810888	995.0926541	0.490734587
45A	45.0559456	0.045055946	0.045276861	0.001007036	0.044748038	-1.181780351	995.1207837	0.487921632
50A	50.0261842	0.050026184	0.05028207	0.000992127	0.049007386	-2.601005074	994.9109852	0.508901479
60A	59.9942496	0.029997125	0.060171653	0.00100669	0.059770691	-0.670833348	997.0517097	0.294829028
70A	70.0285394	0.03501427	0.070273073	0.001002002	0.069543808	-1.048641189	996.5202432	0.347975677
80A	80.0463998	0.0400232	0.080310988	0.001000463	0.079458558	-1.07279764	996.7054583	0.329454173
90A	89.9967402	0.04499837	0.090265937	0.001003304	0.089669163	-0.665528806	997.0177322	0.298226782
100A	100.0133594	0.05000668	0.100315651	0.00100415	0.099803471	-0.513188524	996.9865958	0.301340416
120A	120.092604	0.030023151	0.12047822	0.001003211	0.119853298	-0.521405392	996.7992887	0.32007113

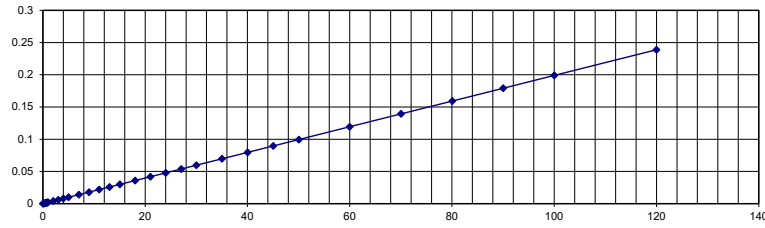
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	1000
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	0.000725562	0.000725562	2.30772E-05	0.00188011	-0.000724198	103.1865824	62.8813903	93.71186097
0.1A	0.100120522	0.100120522	0.000209951	0.001921588	-0.000533172	139.3776974	953.7528447	4.624715525
0.2A	0.201265812	0.201265812	0.00040431	0.001971038	-0.000328859	222.9432292	995.6007722	0.439922777
0.3A	0.29968886	0.29968886	0.000598306	0.001994304	-0.000127891	567.8242325	1001.791475	-0.179147499
0.4A	0.401243006	0.401243006	0.000800836	0.002066992	0.000103804	-671.4863943	1002.06069	-0.206068975
0.5A	0.501240414	0.501240414	0.00100753	0.001991449	0.000272633	-269.5556481	994.9889493	0.501105074
0.6A	0.59865363	0.59865363	0.001201523	0.001984275	0.000462331	-159.8835202	996.4912949	0.350870506
0.7A	0.701361314	0.701361314	0.001405323	0.001949399	0.000641671	-119.0099852	998.1493995	0.185060047
0.8A	0.801324908	0.801324908	0.001600192	0.001949035	0.000836248	-91.35375378	1001.535813	-0.153581299
0.9A	0.901166109	0.901166109	0.001794786	0.001975204	0.001054425	-70.21462431	1004.204416	-0.420441613
1A	1.00064295	1.00064295	0.001991273	0.001989828	0.001265545	-57.34512042	1005.028245	-0.502824502
2A	1.99877656	1.99877656	0.003977387	0.001994862	0.003261722	-121.94133939	1005.070175	-0.507017538
3A	2.99100387	2.99100387	0.005956744	0.001972826	0.005175167	-15.10243604	1004.241247	-0.424124676
4A	4.00785161	0.040078516	0.007962807	0.001991787	0.007257225	-9.722472597	1006.642901	-0.664290111
5A	5.00330821	0.050033082	0.009945545	0.001987579	0.009218907	-7.882039676	1006.140608	-0.614060785
7A	7.0171385	0.035085693	0.013948191	0.001991396	0.013248338	-5.282573539	1006.171847	-0.617184699
9A	9.00298322	0.045014916	0.017902794	0.001983406	0.017131006	-4.505211392	1005.762946	-0.57629464
11A	11.00675575	0.022013512	0.021877087	0.001988043	0.021156347	-3.406735297	1006.23594	-0.623593983
13A	13.0114537	0.026022907	0.025862514	0.001986077	0.025116189	-2.97148858	1006.201775	-0.62017753
15A	15.03105755	0.030062115	0.029873603	0.001987199	0.029144143	-2.502938796	1006.310324	-0.631032353
18A	18.037875	0.03607575	0.035848748	0.001987708	0.035128461	-2.050437288	1006.332213	-0.633221276
21A	21.0060658	0.042012132	0.041748644	0.001989293	0.041061648	-1.673085004	1006.31129	-0.631129004
24A	24.0012791	0.048002558	0.047706999	0.001995116	0.047159783	-1.160344561	1006.195296	-0.619529639
27A	27.0481606	0.027048161	0.053785882	0.001987368	0.053029081	-1.427144774	1005.771752	-0.577175248
30A	30.0082949	0.030008295	0.059668758	0.001984911	0.05883822	-1.411561795	1005.829381	-0.58293806
35A	35.0040731	0.035004073	0.069584931	0.001986459	0.068808593	-1.128256679	1006.081996	-0.608199641
40A	40.0278669	0.040027867	0.079564491	0.001989776	0.078920914	-0.815471226	1006.174144	-0.617414367
45A	45.0309248	0.045030925	0.089519454	0.001990992	0.088930646	-0.662097844	1006.058968	-0.605896791
50A	50.0420793	0.050042079	0.099496622	0.001997719	0.099244461	-0.254081144	1005.905088	-0.59050879
60A	59.9555004	0.02997775	0.119300854	0.001987324	0.118425416	-0.739231821	1005.114354	-0.5114354
70A	70.0310616	0.035015531	0.139324254	0.001987193	0.138439684	-0.638957319	1005.296057	-0.529605707
80A	80.0404188	0.040020209	0.15921478	0.00199215	0.158726949	-0.307339481	1005.439555	-0.54395553
90A	90.0156652	0.045007833	0.179086966	0.001999043	0.179219599	0.074006127	1005.273217	-0.527321681
100A	100.002018	0.050001009	0.199050112	0.001993076	0.198586035	-0.233690803	1004.792381	-0.479238113
120A	119.9767912	0.029994198	0.238861348	0.001990896	0.238135786	-0.304684128	1004.572671	-0.457267117

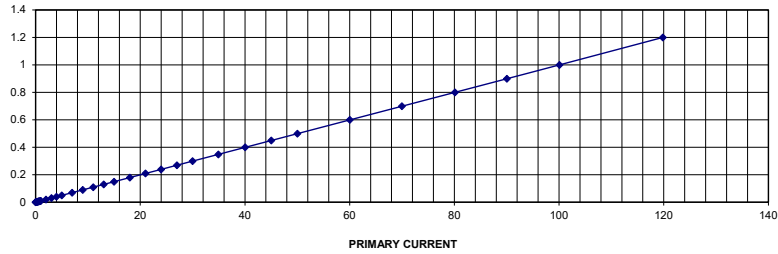
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	1000
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	0.000677914	0.000677914	2.55298E-05	0.00976621	-0.000671294	103.8030669	265.5389855	73.44610145
0.1A	0.100372684	0.100372684	0.00099917	0.009920479	0.000317831	-214.3717508	1004.560849	-0.456084852
0.2A	0.200495218	0.200495218	0.001992433	0.009948635	0.001316739	-51.31569252	1006.283247	-0.628324694
0.3A	0.302626756	0.302626756	0.003008503	0.009971659	0.002339776	-28.58078076	1005.904911	-0.590491093
0.4A	0.400653017	0.400653017	0.003985987	0.009972755	0.0033177	-20.14307643	1005.15384	-0.515384015
0.5A	0.501121218	0.501121218	0.004987932	0.009994437	0.00433051	-15.18115715	1004.667335	-0.466733524
0.6A	0.600539774	0.600539774	0.005981564	0.010023243	0.005341442	-11.984081	1003.984471	-0.398447104
0.7A	0.702179857	0.702179857	0.007000328	0.009894205	0.006269597	-11.65514952	1003.067135	-0.306713502
0.8A	0.800046	0.800046	0.007968635	0.010046993	0.007360142	-8.26740891	1003.99375	-0.399375037
0.9A	0.900137142	0.900137142	0.00897425	0.009928443	0.008259046	-8.659644792	1003.022108	-0.302210761
1A	1.0013765	1.0013765	0.0099794	0.009974721	0.009310537	-7.183935142	1003.443644	-0.344364408
2A	1.99781218	1.99781218	0.019918567	0.010030504	0.019361148	-2.879062418	1002.989904	-0.298990381
3A	3.04383279	3.04383279	0.030410681	0.009962037	0.029644861	-2.583314013	1000.909131	-0.90913125
4A	3.99760071	0.039976007	0.039912152	0.010001037	0.039302239	-1.551853857	1001.599891	-0.159989118
5A	5.00143554	0.050014355	0.049951541	0.009868769	0.048680098	-2.611834816	1001.257499	-0.125749873
7A	7.00018906	0.035000945	0.069676778	0.00998917	0.069248166	-0.618951467	1004.666008	-0.466600794
9A	9.00455058	0.045022753	0.089698687	0.009977074	0.089161149	-0.602882965	1003.866491	-0.38664914
11A	11.01316275	0.022026326	0.109738758	0.009946049	0.108859538	-0.807664545	1003.580043	-0.358004325
13A	13.01174115	0.026023482	0.129616716	0.009974887	0.12911273	-0.390345528	1003.862893	-0.386289296
15A	15.0097517	0.030019503	0.149546645	0.009978356	0.149094734	-0.303103472	1003.683613	-0.368361323
18A	18.0106033	0.036021207	0.179490211	0.009970584	0.178898326	-0.33084972	1003.43095	-0.343095034
21A	21.01280565	0.042025611	0.209423923	0.009957855	0.208564566	-0.412034057	1003.36224	-0.336224004
24A	24.00320115	0.048006402	0.239201849	0.010065689	0.240930836	0.71762802	1003.470552	-0.347055219
27A	27.0124782	0.027012478	0.269492295	0.009976711	0.268817768	-0.250923594	1002.346958	-0.234695764
30A	30.0114611	0.030011461	0.29941228	0.009974435	0.29866944	-0.248716469	1002.345699	-0.234569871
35A	34.936388	0.034936388	0.348535641	0.00998108	0.348024981	-0.146730756	1002.376339	-0.237633947
40A	40.0522857	0.040052286	0.399597827	0.010001766	0.399915667	0.079476743	1002.314902	-0.231490248
45A	45.0409573	0.045040957	0.449493352	0.010005671	0.449987082	0.109720896	1002.038342	-0.20383416
50A	50.0144085	0.050014409	0.499256068	0.009993706	0.499151357	-0.020977806	1001.77868	-0.177868043
60A	60.052604	0.030026302	0.599574838	0.009992455	0.599395056	-0.029993913	1001.586461	-0.158646084
70A	70.0050918	0.035002546	0.699024629	0.009994009	0.698953594	-0.010162988	1001.468173	-0.146817288
80A	80.1377486	0.040068874	0.800290491	0.009990282	0.799920788	-0.0462175	1001.358251	-0.135825055
90A	90.0480532	0.045024027	0.899297228	0.010044077	0.903771685	0.495087042	1001.31581	-0.131580968
100A	100.0817646	0.050040882	1.0000766	0.010124175	1.012567415	1.233578622	1000.740989	-0.074098924
120A	119.8191352	0.029954784	1.1999012	0.01001427	1.199223286	-0.056529457	998.5750093	0.142499066

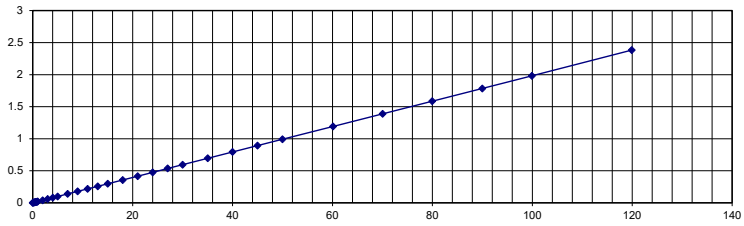
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	20
MEASUREMENT CT TURNS RATIO:	1000
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	0.000658753	0.000658753	2.40835E-05	0.019599068	-0.000645842	103.7290134	547.0566917	45.29433083
0.1A	0.101643054	0.101643054	0.002003282	0.019726828	0.001346342	-48.79441515	1014.765457	-1.476545703
0.2A	0.199910456	0.199910456	0.003941786	0.019745128	0.003288505	-19.86560388	1014.314147	-1.431414658
0.3A	0.30061584	0.30061584	0.005930227	0.019748512	0.005277963	-12.35825286	1013.842689	-1.384268876
0.4A	0.400802435	0.400802435	0.007908763	0.019800258	0.007272739	-8.678072865	1013.565458	-1.356545821
0.5A	0.499131717	0.499131717	0.009855708	0.019880112	0.009264041	-6.386699274	1012.878473	-1.287847323
0.6A	0.601526001	0.601526001	0.011891318	0.019651939	0.0111624	-6.53012049	1011.706215	-1.170621486
0.7A	0.701771328	0.701771328	0.013861333	0.019762158	0.013209763	-4.932488863	1012.55967	-1.255966959
0.8A	0.800840803	0.800840803	0.015819159	0.019757074	0.015163518	-4.323810456	1012.49476379	-1.249476379
0.9A	0.901290715	0.901290715	0.017803756	0.019739905	0.01713264	-3.917175766	1012.472571	-1.24725706
1A	0.999070755	0.999070755	0.019733924	0.019808617	0.019131457	-3.149095121	1012.541383	-1.25413828
2A	1.98665746	1.98665746	0.039296651	0.019831417	0.038739479	-1.438252865	1011.107774	-1.110777356
3A	3.00061056	3.00061056	0.059404778	0.019702175	0.058459801	-1.616455842	1010.225334	-1.022533415
4A	4.0128918	0.040128918	0.079348919	0.019806187	0.078821332	-0.669345397	1011.454682	-1.145468151
5A	5.00500746	0.050050075	0.098998948	0.020132755	0.100105837	1.105719298	1011.123366	-1.112336671
7A	7.0093687	0.035046844	0.139352262	0.019888046	0.138743893	-0.438483277	1005.992813	-0.599281266
9A	9.00566312	0.045028316	0.179054657	0.019205065	0.17229559	-3.922948181	1005.912191	-0.591219138
11A	11.0027913	0.022005583	0.217409633	0.0197973	0.217166812	-0.111812944	1012.171462	-1.21714616
13A	13.02952025	0.026059041	0.257533395	0.019762576	0.256838134	-0.270699982	1011.870344	-1.187034404
15A	15.0124599	0.03002492	0.296721391	0.019731914	0.295565818	-0.390969761	1011.889291	-1.188929112
18A	18.02549555	0.036050991	0.356174352	0.019744512	0.355245865	-0.261364569	1012.172575	-1.217257496
21A	21.0211894	0.042042379	0.415322866	0.019831719	0.416227573	0.217358836	1012.281823	-1.228182317
24A	24.00990315	0.048019806	0.474594198	0.02032622	0.487371821	2.621740141	1011.807698	-1.180769808
27A	27.0221372	0.027022137	0.53582153	0.019802857	0.534456771	-0.255354379	1008.62454	-0.862453959
30A	30.018062	0.030018062	0.595149401	0.01981298	0.594088507	-0.178575003	1008.757194	-0.87571944
35A	35.0202582	0.035020258	0.694257814	0.019842573	0.694233268	-0.003535632	1008.854564	-0.885456364
40A	40.0152261	0.040015226	0.793370828	0.019889846	0.795237924	0.234784592	1008.739537	-0.873953737
45A	45.0059849	0.045005985	0.892636251	0.019878583	0.893996463	0.152149609	1008.383535	-0.838353472
50A	49.9960282	0.049996028	0.991831242	0.019695042	0.984015116	-0.794309593	1008.155946	-0.815594595
60A	60.128724	0.030064362	1.19139511	0.019858896	1.193431319	0.170618054	1009.383428	-0.93834278
70A	70.0244272	0.035012214	1.38791285	0.019854459	1.389638373	0.124170685	1009.060867	-0.906086719
80A	79.9501738	0.039975087	1.58498318	0.019862041	1.587314851	0.146894016	1008.845706	-0.884570649
90A	89.9912634	0.044995632	1.78441971	0.019855242	1.786139528	0.096286902	1008.633371	-0.863337135
100A	99.9275056	0.049963753	1.9817062	0.02008859	2.006743904	1.247678081	1008.499702	-0.849970192
120A	119.9131764	0.029978294	2.38319014	0.019874297	2.382531387	-0.02764929	1006.324878	-0.632487847

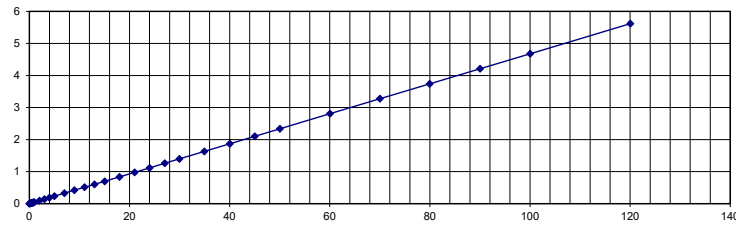
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	47
MEASUREMENT CT TURNS RATIO:	1000
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	0.00070594	0.00070594	2.86943E-05	0.045714838	-0.000673668	104.259409	1156.299515	-15.62995147
0.1A	0.100484012	0.100484012	0.004590033	0.046239537	0.003940394	-16.4866385	1028.913921	-2.891392112
0.2A	0.200687998	0.200687998	0.009223419	0.046305669	0.008587052	-7.410769281	1022.650739	-2.26507387
0.3A	0.301069487	0.301069487	0.013871651	0.046368612	0.013254234	-4.658259193	1020.085222	-2.00852237
0.4A	0.400062166	0.400062166	0.018461804	0.046368708	0.017844426	-3.459781781	1018.47696	-1.847695955
0.5A	0.499599775	0.499599775	0.023077234	0.046380282	0.022465638	-2.722361291	1017.504495	-1.750449483
0.6A	0.600423988	0.600423988	0.02775349	0.046388585	0.027146879	-2.234548066	1016.806461	-1.68064609
0.7A	0.700780924	0.700780924	0.032408906	0.046406298	0.031814708	-1.867681491	1016.285574	-1.628557383
0.8A	0.801307012	0.801307012	0.037073949	0.046388872	0.036465789	-1.667757376	1015.846172	-1.58461716
0.9A	0.902979057	0.902979057	0.041790401	0.046332358	0.041131209	-1.602656091	1015.544593	-1.554459314
1A	0.999642954	0.999642954	0.046269067	0.046538579	0.045816022	-0.988835061	1015.434753	-1.543475331
2A	2.00258159	2.00258159	0.092944406	0.046569676	0.092553637	-0.422208434	1012.662718	-1.266271831
3A	3.00090925	3.00090925	0.139436202	0.046217608	0.137988907	-1.048849111	1011.521633	-1.152163303
4A	4.00992266	0.040099227	0.186070388	0.046545702	0.185938727	-0.070808821	1012.876724	-1.287672394
5A	5.00509417	0.050050942	0.232391345	0.04772275	0.23815092	2.41845591	1012.255538	-1.225553813
7A	7.00881462	0.035044073	0.328014396	0.046838079	0.327573476	-0.134601902	1004.267773	-0.426777348
9A	9.00340584	0.045017029	0.421437218	0.044292043	0.398073296	-5.869251344	1004.08805	-0.408805014
11A	11.04183375	0.022083668	0.511723354	0.046438522	0.512060495	0.065840027	1014.153804	-1.415380438
13A	13.0098562	0.026019712	0.603115407	0.046436861	0.603430947	0.052291023	1013.841189	-1.38411891
15A	15.0377646	0.030075529	0.697285108	0.046722595	0.701897452	0.657125081	1013.609681	-1.360968145
18A	18.0135477	0.036027095	0.836321418	0.04666517	0.839899333	0.425993329	1012.334162	-1.233416206
21A	21.02328695	0.042046574	0.976771413	0.046696118	0.980999951	0.431043612	1011.592348	-1.15923475
24A	24.00682975	0.04801366	1.11609128	0.048057081	1.152992228	3.200450744	1010.957633	-1.095763265
27A	27.0396213	0.027039621	1.26183839	0.04668409	1.261614178	-0.017771808	1007.151321	-0.715132078
30A	29.9605451	0.029960545	1.39819906	0.046678394	1.39780419	-0.028249311	1007.113837	-0.711383664
35A	34.9692804	0.03496928	1.63199878	0.04670077	1.632386398	0.023745483	1007.081745	-0.708174475
40A	40.0318412	0.040031841	1.86842427	0.046729963	1.869980536	0.083223621	1006.996412	-0.699641222
45A	45.0289367	0.045028937	2.10193836	0.046820174	2.107556724	0.266581873	1006.861126	-0.686112646
50A	50.0355633	0.050035563	2.33634949	0.047132827	2.357611584	0.90184899	1006.558088	-0.655808781
60A	60.070263	0.030035132	2.80931325	0.04677965	2.809359916	0.001661074	1004.979548	-0.497954829
70A	70.0262666	0.035013133	3.27505161	0.046665001	3.267069865	-0.244308963	1004.941272	-0.494127181
80A	79.9730284	0.039986514	3.73921726	0.046895949	3.749705142	0.279698838	1005.219027	-0.521902672
90A	90.0250258	0.045012513	4.21061522	0.046633759	4.197499416	-0.312467081	1004.883133	-0.488313264
100A	100.054985	0.050027493	4.67834992	0.047017159	4.7035952	0.536723049	1005.180112	-0.518011167
120A	120.0517432	0.030012936	5.61854068	0.046800992	5.61783474	-0.012566052	1004.252216	-0.425221632

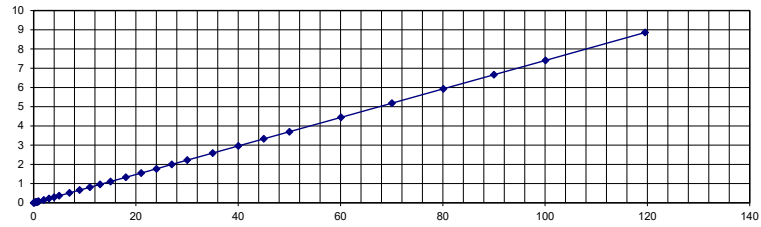
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	75
MEASUREMENT CT TURNS RATIO:	1000
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	0.000718439	0.000718439	3.68795E-05	0.072066393	-0.000666663	105.5319605	1461.050714	-46.10507145
0.1A	0.100011019	0.100011019	0.007192538	0.072973961	0.006579762	-9.313043206	1042.86231	-4.286230952
0.2A	0.199516171	0.199516171	0.014453823	0.073096135	0.013865422	-4.243652261	1035.277181	-3.527718138
0.3A	0.300612593	0.300612593	0.02184358	0.073224146	0.021293662	-2.582545868	1032.154256	-3.215425595
0.4A	0.400130173	0.400130173	0.02913067	0.073145586	0.028549317	-2.036310768	1030.177568	-3.01775678
0.5A	0.500717428	0.500717428	0.036488184	0.073204798	0.03593648	-1.535220133	1029.204611	-2.920461054
0.6A	0.601146387	0.601146387	0.043840066	0.073223071	0.043299346	-1.248793302	1028.419516	-2.841951553
0.7A	0.700617112	0.700617112	0.051123618	0.073202217	0.050568287	-1.098179299	1027.827956	-2.782795637
0.8A	0.800545441	0.800545441	0.058438593	0.073174436	0.057861022	-0.998202817	1027.418786	-2.741878608
0.9A	0.899498372	0.899498372	0.065679418	0.073252713	0.065172257	-0.778184741	1027.146407	-2.714640693
1A	0.999510323	0.999510323	0.073005564	0.073379777	0.072625406	-0.523450887	1026.815899	-2.681589878
2A	1.9995592	1.9995592	0.146388928	0.073481043	0.146211256	-0.121517206	1024.441821	-2.444182117
3A	3.00427713	3.00427713	0.220216649	0.073198149	0.219189086	-0.468802022	1023.177792	-2.317779229
4A	3.99983553	0.39998355	0.293089681	0.073428404	0.292983101	-0.036377426	1023.535403	-2.353540297
5A	4.99824982	0.049982498	0.366401649	0.073368599	0.365996147	-0.110794095	1023.108759	-2.310875926
7A	6.9949318	0.034974659	0.512895408	0.073755712	0.515197735	0.44688226	1022.859392	-2.285939164
9A	9.0013512	0.045006756	0.660880299	0.074586796	0.670663511	1.458736236	1021.518331	-2.151833096
11A	11.0224928	0.022044986	0.811630776	0.073487206	0.809293759	-0.288772441	1018.550534	-1.855053362
13A	13.00839235	0.026016785	0.957568985	0.073515916	0.955605444	-0.205476108	1018.860721	-1.886072078
15A	15.04863605	0.030097272	1.10755937	0.073809707	1.107007255	-0.049874567	1019.040364	-1.904036417
18A	18.0267866	0.036053573	1.32678016	0.073545662	1.32507352	-0.128795861	1019.015083	-1.90150831
21A	21.0358916	0.042071783	1.54808678	0.073761371	1.550917767	0.182536244	1019.123663	-1.912366308
24A	24.007298	0.048014596	1.76726179	0.076154842	1.827553542	3.299041624	1018.834538	-1.883453837
27A	27.0213451	0.027021345	1.99679607	0.073810747	1.993747242	-0.152919502	1014.926318	-1.492631769
30A	30.026508	0.030026508	2.21860939	0.073882118	2.217703567	-0.040845103	1015.044879	-1.504487908
35A	35.0257384	0.035025738	2.58796312	0.074039688	2.59257631	0.177938463	1015.057116	-1.505711565
40A	40.0337549	0.040033755	2.9587551	0.074041392	2.963436518	0.157972605	1014.795587	-1.479558666
45A	45.0114252	0.045011425	3.32730874	0.074195983	3.338948505	0.348605713	1014.590816	-1.459081612
50A	50.0034534	0.050003453	3.69769718	0.073933452	3.696209495	-0.040248946	1014.214746	-1.421474568
60A	60.0878962	0.030043948	4.44327485	0.074200333	4.45782347	0.326361504	1014.250157	-1.425015718
70A	70.041277	0.035020639	5.18181902	0.074256234	5.200283002	0.35505725	1013.755161	-1.375516102
80A	80.115834	0.040057917	5.92991768	0.074033677	5.930551315	0.010684249	1013.283468	-1.328346771
90A	90.0126926	0.045006346	6.66261851	0.074029988	6.662920099	0.004526376	1013.258066	-1.325806586
100A	100.0713344	0.050035667	7.40725964	0.074580474	7.462649089	0.742222344	1013.242474	-1.324247357
120A	119.5332628	0.029883316	8.85873948	0.074111082	8.858021041	-0.008110599	1011.994396	-1.199439607

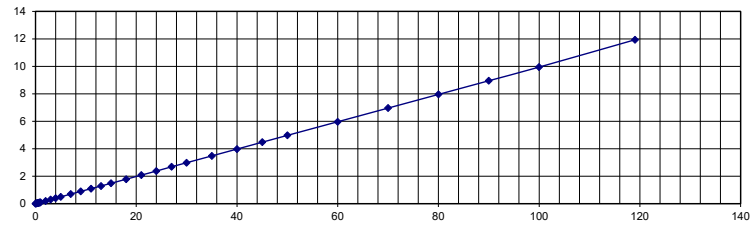
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

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



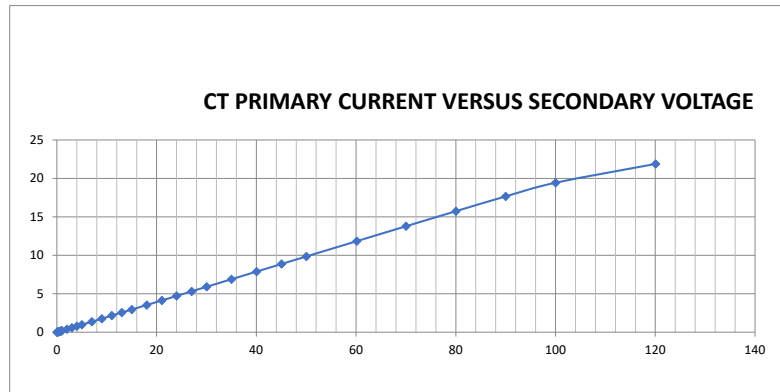
Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000726334	0.000726334	4.46513E-05	0.096104049	-0.00065653	106.8011065	1626.679458	-62.66794585
0.1A	0.100303862	0.100303862	0.009614455	0.09774965	0.009078334	-5.905504271	1043.261034	-4.326103379
0.2A	0.200223764	0.200223764	0.01938159	0.097913756	0.018878327	-2.66582635	1033.06158	-3.306157992
0.3A	0.300437896	0.300437896	0.029193933	0.098054007	0.028732806	-1.604878922	1029.110744	-2.911074416
0.4A	0.400583486	0.400583486	0.039013609	0.09816906	0.03859857	-1.075269183	1026.778853	-2.677885306
0.5A	0.500499806	0.500499806	0.04888223	0.098115389	0.048380399	-0.913388227	1025.145896	-2.514589639
0.6A	0.600114307	0.600114307	0.058596016	0.098138655	0.058168077	-0.735692949	1024.155484	-2.41554837
0.7A	0.699708693	0.699708693	0.068370075	0.098207306	0.067990172	-0.558761002	1023.413673	-2.341367341
0.8A	0.799742685	0.799742685	0.078194144	0.098253822	0.077851442	-0.440199796	1022.76545	-2.276545043
0.9A	0.900241671	0.900241671	0.088068553	0.098156189	0.087637958	-0.491333921	1022.205588	-2.220558793
1A	0.99992181	0.99992181	0.097852776	0.098373077	0.097639052	-0.218891805	1021.863512	-2.186351163
2A	2.00365042	2.00365042	0.196592648	0.098519415	0.196672133	0.040415125	1019.188886	-1.918888645
3A	3.00453382	3.00453382	0.295199095	0.100374235	0.300851451	1.878786297	1017.79913	-1.779912977
4A	4.00480284	0.040048028	0.395600333	0.099123273	0.396242829	0.162147153	1012.335558	-1.233555837
5A	5.00934761	0.050093476	0.495174098	0.100977577	0.505105449	1.96619351	1011.633611	-1.163361134
7A	7.01707656	0.035085383	0.697909702	0.099548884	0.697815809	-0.013455269	1005.441899	-0.544189884
9A	8.99987404	0.04499937	0.895294979	0.09633568	0.866282655	-3.349059733	1005.241206	-0.524120554
11A	11.03022915	0.022060458	1.09089062	0.098909246	1.090265315	-0.057353441	1011.121459	-1.112145872
13A	13.02538125	0.026050763	1.28822961	0.098905491	1.287555388	-0.052364481	1011.107115	-1.110711545
15A	15.0120932	0.030024186	1.48472633	0.098855088	1.483295463	-0.096465417	1011.101702	-1.110170249
18A	18.0265611	0.036053122	1.78272182	0.098963974	1.783253782	0.02983097	1011.181941	-1.118194088
21A	21.0316581	0.042063316	2.08011816	0.099253138	2.086731721	0.316933931	1011.079972	-1.107997153
24A	23.9999022	0.047999804	2.3747257	0.102572015	2.460992006	3.505346849	1010.638921	-1.063892137
27A	27.0215831	0.027021583	2.6846656	0.099285252	2.68211836	-0.094971183	1006.515787	-0.651578729
30A	30.0171854	0.030017185	2.98208473	0.09926688	2.978986001	-0.104019576	1006.583921	-0.658392091
35A	35.0096137	0.035009614	3.47766751	0.099497112	3.482629132	0.142467716	1006.698127	-0.669812739
40A	40.0155425	0.040015543	3.97574297	0.099711149	3.989269388	0.33907005	1006.49219	-0.649219031
45A	45.0298929	0.045029893	4.47572961	0.099694124	4.488489376	0.284277523	1006.090556	-0.609055559
50A	50.0160252	0.050016025	4.9728177	0.099291395	4.965434557	-0.148690771	1005.788433	-0.578843258
60A	60.010289	0.030005145	5.96516209	0.099465989	5.968256397	0.051846078	1006.012713	-0.601271339
70A	70.027887	0.035013944	6.96157238	0.099548873	6.970470872	0.127659841	1005.920548	-0.592054751
80A	80.0374334	0.040018717	7.95801144	0.099548941	7.966915439	0.111762189	1005.746649	-0.574664919
90A	89.9953872	0.044997694	8.9493152	0.099581767	8.961173388	0.13232852	1005.611996	-0.561199588
100A	99.970269	0.049985135	9.94263156	0.104560703	10.45223531	4.875547975	1005.47092	-0.547091981
120A	119.031614	0.029757904	11.9356992	0.100273354	11.93497287	-0.00608576	997.2739092	0.272609082

CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	1000
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	0.000735506	0.000735506	6.99479E-05	0.188619645	-0.000596775	111.7209744	2103.012193	-110.3012193
0.1A	0.100653691	0.100653691	0.01891648	0.191650933	0.018554868	-1.948884083	1064.190472	-6.419047171
0.2A	0.200555417	0.200555417	0.038062739	0.192352801	0.03784189	-0.583610755	1053.814939	-5.381493903
0.3A	0.30095149	0.30095149	0.057374205	0.192610637	0.057230952	-0.250307522	1049.082906	-4.908290555
0.4A	0.400967228	0.400967228	0.0766383	0.192850168	0.076591091	-0.061638075	1046.388624	-4.638862404
0.5A	0.499839621	0.499839621	0.095705858	0.192686043	0.095576612	-0.135227042	1044.532972	-4.45329721
0.6A	0.602053143	0.602053143	0.115400977	0.192972257	0.115444047	0.037308539	1043.410825	-4.341082485
0.7A	0.700492967	0.700492967	0.134397132	0.192798446	0.134318449	-0.05857921	1042.422493	-4.242249306
0.8A	0.799634793	0.799634793	0.153511522	0.192937725	0.153544211	0.021289849	1041.791238	-4.179123831
0.9A	0.899850513	0.899850513	0.172846915	0.19298881	0.172925574	0.045486945	1041.210962	-4.121096173
1A	0.99911375	0.99911375	0.192003609	0.193451059	0.192544107	0.280713683	1040.723927	-4.072392723
2A	2.0019035	2.0019035	0.385994348	0.193650777	0.386934663	0.243016362	1037.270888	-3.727088771
3A	3.00191063	3.00191063	0.579646506	0.194982371	0.584584146	0.844641427	1035.772872	-3.577287154
4A	4.00714557	0.040071456	0.775649598	0.194267491	0.777722608	0.266548815	1033.236033	-3.323603347
5A	5.00259672	0.050025967	0.969033395	0.194813434	0.973837538	0.493320744	1032.49212	-3.249211963
7A	7.0100271	0.035050136	1.3601078	0.194805478	1.364856173	0.347902839	1030.804632	-3.080463181
9A	8.99931464	0.044996573	1.74763191	0.204976961	1.843916656	5.221751512	1029.866739	-2.98673856
11A	11.02237025	0.022044741	2.1623117	0.196028103	2.159958822	-0.108931606	1019.498738	-1.949873832
13A	13.0224346	0.026044869	2.55438052	0.196123433	2.553269075	-0.043530268	1019.615871	-1.961587148
15A	15.01829595	0.030036592	2.9458157	0.19629637	2.947301468	0.050411129	1019.635814	-1.963581428
18A	18.0176126	0.036035225	3.53457067	0.196402098	3.537961418	0.095839032	1019.507843	-1.950784308
21A	21.04836815	0.042096736	4.12981742	0.196935373	4.144432723	0.352649053	1019.336499	-1.93364989
24A	24.00737735	0.048014755	4.712551	0.19957041	4.790426633	1.625651301	1018.86971	-1.886970985
27A	27.0288392	0.027028839	5.31554538	0.19688892	5.320943451	0.101449512	1016.973321	-1.697332137
30A	30.0370678	0.030037068	5.90783226	0.19713895	5.920740504	0.21801739	1016.85581	-1.685581032
35A	35.0115284	0.035011528	6.8884922	0.197569617	6.916478767	0.404636053	1016.522263	-1.652226303
40A	40.0508133	0.040050813	7.88410179	0.197199602	7.897268953	0.166730584	1015.989249	-1.598924942
45A	45.0497249	0.045049725	8.86988517	0.197360953	8.890321115	0.229867343	1015.790487	-1.57904874
50A	50.0072524	0.050007252	9.84830752	0.196640203	9.832700769	-0.158722928	1015.550181	-1.555018055
60A	60.1356984	0.030067849	11.8399672	0.196517022	11.81695284	-0.194757181	1015.80853	-1.580853028
70A	70.0128484	0.035006424	13.7809953	0.195582656	13.69256337	-0.645839137	1016.078257	-1.60782567
80A	80.027718	0.040013859	15.7397301	0.192604605	15.41297154	-2.120023123	1016.88806	-1.68880596
90A	89.9971468	0.044998573	17.659888	0.177826238	16.00311854	-10.35279127	1019.2267	-1.922669951
100A	99.9844868	0.049992243	19.4358991	0.121992207	12.19659274	-59.35515368	1028.864024	-2.88640241
120A	120.0522596	0.030013065	21.884011	0.182287373	21.88327549	-0.003361043	1097.168701	-9.716870093

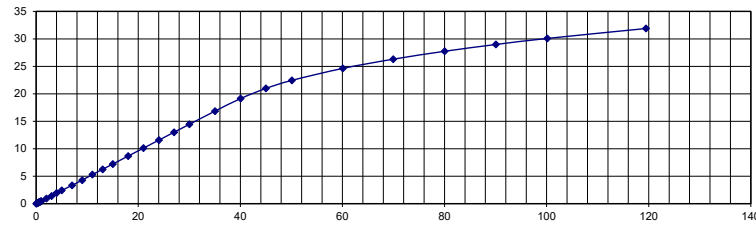
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
TURNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	500
MEASUREMENT CT TURNS RATIO:	1000
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	0.000722369	0.000722369	0.000173006	0.448473862	-0.000398406	143.4246971	2087.695272	-108.7695272
0.1A	0.101006174	0.101006174	0.045147672	0.461281724	0.045869933	1.574585001	1118.619969	-11.86199689
0.2A	0.200094064	0.200094064	0.090855104	0.463401855	0.092001591	1.246159793	1101.171286	-10.11712855
0.3A	0.300636792	0.300636792	0.137446791	0.464167	0.138823308	0.991560735	1093.647912	-9.364791209
0.4A	0.402149601	0.402149601	0.184565687	0.465073639	0.186306809	0.934545554	1089.448444	-8.94484439
0.5A	0.50057384	0.50057384	0.230340206	0.465625595	0.232357623	0.86823788	1086.596753	-8.659675333
0.6A	0.600613929	0.600613929	0.276921432	0.465640735	0.278947942	0.72648322	1084.448258	-8.444825787
0.7A	0.700586411	0.700586411	0.323472692	0.46637219	0.326011649	0.778793481	1082.914305	-8.291430517
0.8A	0.800489319	0.800489319	0.37006463	0.466754006	0.372909227	0.762812144	1081.553402	-8.15534019
0.9A	0.899235441	0.899235441	0.416154778	0.466868672	0.419102486	0.703338313	1080.409848	-8.040984814
1A	1.0012617	1.0012617	0.463787642	0.468434403	0.468303058	0.964207999	1079.439823	-7.943982259
2A	2.00754852	2.00754852	0.935167008	0.466995888	0.936794533	0.173733451	1073.363636	-7.336363603
3A	3.00352025	3.00352025	1.40028171	0.525561268	1.577811541	11.25164991	1072.47	-7.246999963
4A	4.00342586	0.040034259	1.92579337	0.481579857	1.927246882	0.075419084	1039.422485	-3.942248487
5A	5.00899919	0.050089992	2.41005723	0.458160917	2.294205292	-5.049763336	1039.186773	-3.918677276
7A	7.00528278	0.035026414	3.32467635	0.477977867	3.347647753	0.686195342	1053.528531	-5.352853068
9A	9.0033472	0.045016736	4.27970692	0.501019559	4.510130672	5.109026082	1051.864925	-5.186492537
11A	11.00752295	0.022015046	5.28383817	0.481971053	5.304585061	0.391112429	1041.621885	-4.162188506
13A	13.00621265	0.026012425	6.24714875	0.481816972	6.26589162	0.299125354	1040.971903	-4.097190338
15A	15.0038257	0.030007651	7.20963262	0.482054785	7.231943604	0.308506058	1040.540239	-4.054023907
18A	18.01841345	0.036036827	8.66282907	0.482599697	8.694958495	0.369517868	1039.984358	-3.998435756
21A	21.01583935	0.042031679	10.1093859	0.482185637	10.13281351	0.231205339	1039.422155	-3.942215471
24A	24.0207671	0.048041534	11.5583189	0.482298588	11.58445969	0.225653945	1039.111626	-3.9111162635
27A	27.0103535	0.027010354	13.0001922	0.481098779	12.99392571	-0.048226311	1038.844391	-3.884439109
30A	30.01276	0.03001276	14.4446463	0.478173645	14.35058848	-0.655428316	1038.888713	-3.88887127
35A	35.0155949	0.035015595	16.8368701	0.456242252	15.97487149	-5.39596583	1039.848698	-3.984869789
40A	40.0406558	0.040040656	19.1295152	0.371867658	14.88910253	-28.47997493	1046.567448	-4.656744777
45A	45.003093	0.045003093	20.9748851	0.289039223	13.00693664	-61.25922404	1072.785209	-7.27852092
50A	50.0855226	0.050085523	22.4439066	0.218370946	10.93650057	-105.2201841	1115.793331	-11.57933307
60A	60.051641	0.030025821	24.6202173	0.169657941	10.18751541	-141.6704791	1219.559524	-21.95595244
70A	69.945205	0.034972603	26.298739	0.142946247	9.997682199	-163.0483594	1329.82051	-32.98205096
80A	79.9876792	0.03999384	27.734273	0.123311935	9.862713136	-181.2032817	1442.036703	-44.20367031
90A	90.0328942	0.045016447	28.9729679	0.109579603	9.865046403	-193.693174	1553.739584	-55.37395843
100A	100.1303318	0.050065166	30.0794411	0.093433834	9.354838438	-221.5388625	1664.431388	-66.4431388
120A	119.4427588	0.02986069	31.8838752	0.266938536	31.88315283	-0.002265677	1873.090364	-87.30903639

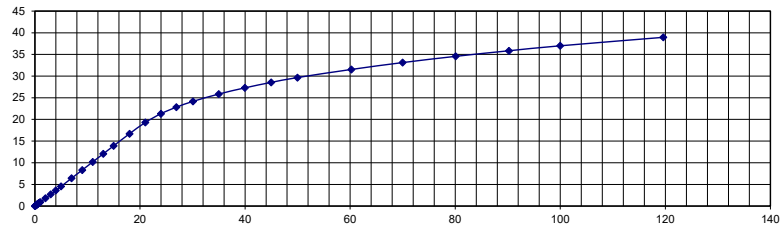
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8350-1000
Lot #:	30516
URNS/RATIO:	1000
DATE:	June 12, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	100
Burden (Ohms):	1000
MEASUREMENT CT TURNS RATIO:	1000
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	0.000732488	0.000732488	0.000341122	0.860229132	-0.00010238	433.190527	2147.289952	-114.7289952
0.1A	0.100477733	0.100477733	0.086144888	0.891343505	0.088827687	3.020228683	1166.380684	-16.63806836
0.2A	0.200257619	0.200257619	0.175083041	0.896449563	0.178788367	2.072465008	1143.786502	-14.37865019
0.3A	0.3008024	0.3008024	0.265216366	0.899161535	0.26973746	1.67610909	1134.177368	-13.41773682
0.4A	0.40040826	0.40040826	0.354778124	0.901258286	0.360138774	1.48849573	1128.61598	-12.86159797
0.5A	0.500982319	0.500982319	0.445421328	0.902820138	0.451564439	1.360406239	1124.738057	-12.4738057
0.6A	0.602330683	0.602330683	0.536920672	0.9041635	0.543872931	1.278287341	1121.824348	-12.18243484
0.7A	0.703977373	0.703977373	0.628825899	0.904895704	0.636293613	1.173627051	1119.510781	-11.95107805
0.8A	0.801404297	0.801404297	0.716987104	0.906935733	0.726089706	1.253647023	1117.738789	-11.77387885
0.9A	0.899586159	0.899586159	0.806031743	0.907360098	0.815516098	1.16298805	1116.067905	-11.60679053
1A	0.999383674	0.999383674	0.896584026	0.908804958	0.90751235	1.204206648	1114.657015	-11.46570149
2A	2.00022703	2.00022703	1.80615543	0.907864122	1.815201869	0.498370972	1107.45011	-10.74501102
3A	3.00275061	3.00275061	2.71631062	0.902070181	2.707959299	-0.308399066	1105.451854	-10.54518537
4A	3.99970977	0.03997098	3.61563775	0.932462631	3.728847406	3.036049572	1106.225249	-10.62252489
5A	4.9973077	0.049973077	4.54586054	0.949071133	4.742067994	4.137592584	1099.309505	-9.930950499
7A	7.00219346	0.035010967	6.44863974	0.931613124	6.522602836	1.133950625	1085.840385	-8.584038531
9A	9.01335902	0.045066795	8.32226797	0.937830707	8.452272375	1.53810004	1083.041192	-8.304119171
11A	11.0221007	0.022044201	10.2061276	0.9331165	10.28417153	0.758874301	1079.949334	-7.994933357
13A	13.0358395	0.026071679	12.0851805	0.932813487	12.15927442	0.609361334	1078.663202	-7.866320242
15A	15.00852635	0.030017053	13.9253294	0.923670997	13.862208	-0.455348786	1077.786092	-7.778609172
18A	18.01409815	0.036028196	16.7014889	0.865395523	15.58858741	-7.139206785	1078.592349	-7.859234933
21A	21.0137365	0.042027473	19.2973625	0.679847997	14.28541418	-35.08437525	1088.94345	-8.894345017
24A	24.0002307	0.048000461	21.3277246	0.510613815	12.25411688	-74.04538251	1125.306668	-12.53066677
27A	26.9531085	0.026953109	22.8355048	0.42297256	11.39969281	-100.3168435	1180.315861	-18.03158606
30A	30.0959729	0.030095973	24.1648502	0.345147424	10.38681502	-132.6492785	1245.444215	-24.54442155
35A	35.0154884	0.035015488	25.8628083	0.287091712	10.05192403	-157.2921187	1353.893514	-35.38935136
40A	39.976075	0.039976075	27.2869516	0.251764059	10.0638064	-171.1394726	1465.02532	-46.502532
45A	44.9789134	0.044978913	28.5464865	0.223524528	10.05315791	-183.9554173	1575.637457	-57.56374572
50A	49.9767573	0.049976757	29.6636272	0.182362353	9.113146559	-225.5036777	1684.782409	-68.47824092
60A	60.2381044	0.030119052	31.5349106	0.162305845	9.776263974	-222.5660711	1910.203747	-91.02037473
70A	70.0009444	0.035000472	33.1194766	0.142697128	9.988201269	-231.5859954	2113.588486	-111.3588486
80A	80.0922694	0.040046135	34.5594797	0.12702039	10.17261882	-239.7304108	2317.519537	-131.7519537
90A	90.2390844	0.045119542	35.8483321	0.117264857	10.58114084	-238.7945842	2517.246385	-151.7246385
100A	99.9899836	0.049994992	36.9917699	0.099531595	9.951430068	-271.7231558	2703.033239	-170.3033239
120A	119.6340112	0.029908503	38.9469713	0.325550994	38.94623881	-0.001880766	3071.715392	-207.1715392