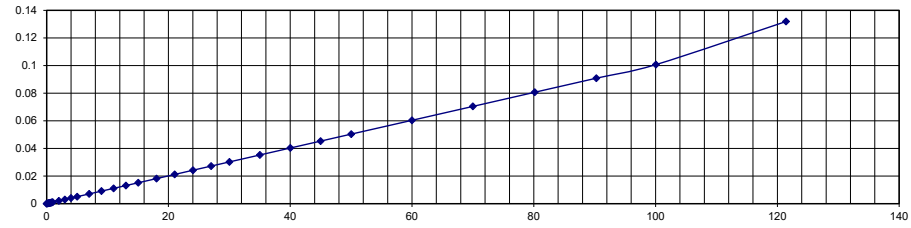


CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.0007092	0.0007092	2.24349E-05	0.000853931	-0.000708594	103.1661119	31.61147447	96.83885255
0.1A	0.100368196	0.100368196	0.000107537	0.001065389	-0.000602269	117.8552866	933.3378366	6.66621634
0.2A	0.200255269	0.200255269	0.000213955	0.001051674	-0.000498597	142.9115064	935.9674693	6.403253075
0.3A	0.299135949	0.299135949	0.000317946	0.001007804	-0.00040773	177.9795372	940.8399981	5.916000187
0.4A	0.401796648	0.401796648	0.000421407	0.000961029	-0.000323062	230.4417576	953.4634662	4.653653381
0.5A	0.501732625	0.501732625	0.000517449	0.000943974	-0.000235577	319.6514052	969.6274698	3.037253019
0.6A	0.600026957	0.600026957	0.000610236	0.001035798	-8.76932E-05	795.8764398	983.2700496	1.672995042
0.7A	0.701042502	0.701042502	0.000714868	0.001077636	4.62689E-05	-1445.029389	980.6602141	1.933978588
0.8A	0.800140019	0.800140019	0.000821659	0.001017676	0.000105083	-681.9135097	973.8103489	2.618965106
0.9A	0.900086207	0.900086207	0.000923372	0.000925932	0.000124218	-643.3459974	974.7820031	2.521799686
1A	0.999724335	0.999724335	0.00101563	0.001005251	0.000295774	-243.3803334	984.3392212	1.566077875
2A	2.00544515	2.00544515	0.002026632	0.00101122	0.001318746	-53.67874381	989.5458322	1.045416782
3A	3.00109902	3.00109902	0.003033457	0.001012377	0.002329043	-30.24475877	989.3330472	1.066695277
4A	4.00428923	0.040042892	0.004049063	0.001006303	0.003320328	-21.94768626	988.9421092	1.105789076
5A	5.01537828	0.050153783	0.005066525	0.0010053	0.004332757	-16.9353531	989.9049235	1.009507652
7A	6.99614176	0.034980709	0.007057786	0.001007223	0.006337477	-11.36586904	991.2658033	0.873419672
9A	9.01851706	0.045092585	0.009094769	0.000999833	0.008307814	-9.472469197	991.6158192	0.838418083
11A	11.00794635	0.022015893	0.011083867	0.001005665	0.010361108	-6.97569432	993.1503464	0.684965365
13A	13.0123224	0.026024645	0.013099598	0.001004181	0.012357532	-6.004969334	993.3375284	0.666247158
15A	15.03806875	0.030076138	0.015133815	0.001004775	0.01440067	-5.091048768	993.6733632	0.632663678
18A	18.04000545	0.036080011	0.018150085	0.001004702	0.017415636	-4.217180908	993.9350559	0.606494415
21A	21.0183368	0.042036674	0.021142421	0.001017969	0.020686807	-2.202437307	994.1310222	0.586897777
24A	24.03267845	0.048065357	0.024210926	0.001005851	0.023464092	-3.182882178	992.6377063	0.736229366
27A	27.0146226	0.027014623	0.027210318	0.001007855	0.026517622	-2.612209368	992.8080553	0.719194469
30A	30.023784	0.030023784	0.030243116	0.001004701	0.02945573	-2.673116506	992.747705	0.725229503
35A	35.027251	0.035027251	0.035270105	0.001008547	0.034617433	-1.885385628	993.114452	0.688554797
40A	40.0198955	0.040019896	0.040305422	0.001006462	0.039569292	-1.860356672	992.9159234	0.708407664
45A	45.0062425	0.045006243	0.04532399	0.001006813	0.044603673	-1.614926317	992.98943	0.701056998
50A	50.0196234	0.050019623	0.050371527	0.001002082	0.049414541	-1.936647516	993.0138409	0.698615908
60A	59.9928006	0.02999964	0.060365464	0.001006482	0.059672462	-1.161343371	993.8265512	0.617344881
70A	70.008347	0.035004174	0.070445929	0.001009205	0.069943572	-0.718231366	993.7884019	0.621159814
80A	80.1707748	0.040085387	0.080701902	0.00100764	0.080074059	-0.784076713	993.4186594	0.658134059
90A	90.2625584	0.045131279	0.090870784	0.00100506	0.09001007	-0.956241878	993.3067002	0.669329981
100A	100.0479056	0.050023953	0.100705643	0.00146135	0.145495759	30.78448202	993.4687136	0.653128643
120A	121.4202396	0.03035506	0.131938093	0.001086624	0.131228893	-0.540429766	920.2819052	7.971809476

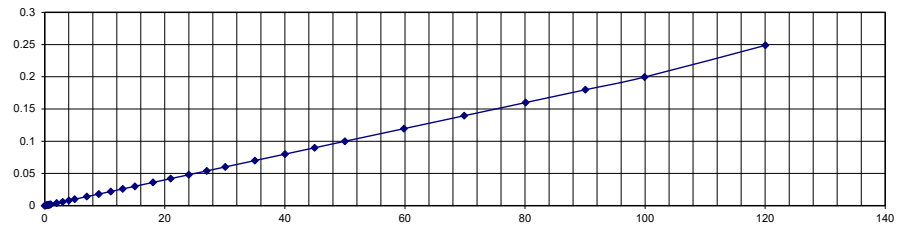
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.000697169	0.000697169	2.58072E-05	0.001925931	-0.000695826	103.7088542	54.02906628	94.59709337
0.1A	0.099985611	0.099985611	0.00021703	0.001988532	-0.000498345	143.5501605	921.3996038	7.860039625
0.2A	0.200522266	0.200522266	0.00041695	0.001991012	-0.000297927	239.9504936	961.8523255	3.814767448
0.3A	0.300546649	0.300546649	0.0006161	0.001965699	-0.00106385	679.1238875	975.6425057	2.435749431
0.4A	0.40025819	0.40025819	0.000812103	0.001963038	8.85531E-05	-817.0802809	985.7327554	1.42672446
0.5A	0.500109182	0.500109182	0.001008114	0.001987688	0.000296892	-239.5560997	992.1677266	0.783227345
0.6A	0.600137308	0.600137308	0.001206939	0.002059939	0.000539077	-123.8899192	994.4783749	0.552162509
0.7A	0.700158289	0.700158289	0.001412976	0.002052908	0.000740191	-90.89339356	991.0406176	0.895938237
0.8A	0.800298134	0.800298134	0.001618554	0.001987849	0.000893703	-81.10650562	988.905187	1.109481302
0.9A	0.900157949	0.900157949	0.00181706	0.001942468	0.001051359	-72.82964795	990.7850256	0.921497444
1A	1.00020779	1.00020779	0.002011404	0.001998185	0.001301431	-54.55319842	994.5370936	0.546290635
2A	2.00140353	2.00140353	0.004011978	0.002003412	0.003312466	-21.11756735	997.7140504	0.228594959
3A	3.00097531	3.00097531	0.006014532	0.001996298	0.005293672	-13.61738018	997.9081714	0.209182859
4A	4.00870596	0.04008706	0.008026263	0.002002509	0.007330301	-9.494314853	998.8972502	0.110274983
5A	5.00347638	0.050034764	0.0100183	0.002004554	0.009332568	-7.347724079	998.8673787	0.113262134
7A	7.01607796	0.03508039	0.014052668	0.002002276	0.013350954	-5.255909117	998.5403569	0.145964313
9A	9.00531478	0.045026574	0.018035669	0.001984364	0.017172649	-5.02554721	998.6116988	0.138830119
11A	11.0183334	0.022036667	0.022030229	0.001999443	0.021333364	-3.266548718	1000.292217	-0.029221666
13A	13.00545105	0.026010902	0.026003358	0.00200043	0.025319323	-2.701635219	1000.290105	-0.029010484
15A	15.0166306	0.030033261	0.030026582	0.001997788	0.029302876	-2.469741864	1000.222446	-0.022244623
18A	18.0411547	0.036082309	0.03606894	0.001998639	0.035360584	-2.0032357	1000.37066	-0.037065963
21A	20.99381805	0.041987636	0.041970248	0.001995831	0.041202948	-1.862245468	1000.414298	-0.041429824
24A	24.0148535	0.048029707	0.047999725	0.001999696	0.047325245	-1.425200671	1000.624635	-0.062463483
27A	27.0120753	0.027012075	0.053993258	0.001997884	0.053269819	-1.358064739	1000.572155	-0.057215477
30A	30.0658554	0.030065855	0.060094356	0.001992988	0.059223726	-1.470069018	1000.621602	-0.062160247
35A	35.0102457	0.035010246	0.069948468	0.0020011	0.069361825	-0.845770866	1001.029669	-0.102966945
40A	40.0135621	0.040013562	0.079960603	0.00199819	0.079257545	-0.887054509	1000.831926	-0.083192594
45A	44.9630796	0.04496308	0.089850681	0.001999692	0.089215146	-0.712361867	1000.840039	-0.084003926
50A	50.0158759	0.050015876	0.099954718	0.00199865	0.098816929	-1.151411228	1000.770687	-0.077068698
60A	59.8444608	0.02992223	0.119510164	0.001998362	0.118893754	-0.518454613	1001.495752	-0.149575228
70A	69.8900464	0.034945023	0.139584885	0.001999972	0.139080975	-0.362314404	1001.398488	-0.13984881
80A	80.1097004	0.04005485	0.160023908	0.001999103	0.159450334	-0.359719714	1001.221647	-0.122164746
90A	90.044257	0.045022129	0.179884105	0.001998473	0.179253847	-0.351600868	1001.136337	-0.11363372
100A	99.9216384	0.049960819	0.199623785	0.002446055	0.243716692	18.09187011	1001.099527	-0.109952729
120A	120.0345816	0.030008645	0.248821158	0.002072912	0.248123989	-0.280976117	964.8261632	3.517383678

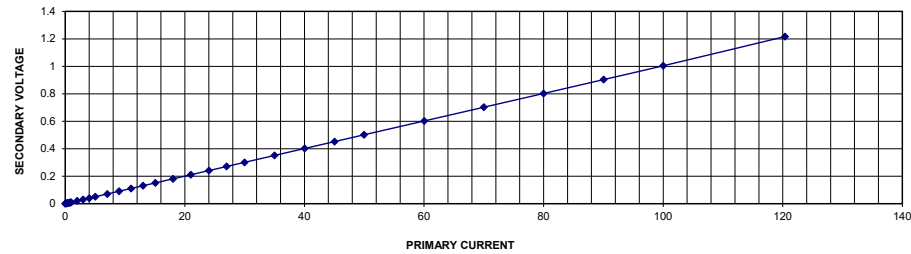
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.000677343	0.000677343	2.25096E-05	0.010061134	-0.000670528	103.3569985	300.9126741	69.90873259
0.1A	0.100757959	0.100757959	0.001029434	0.010022061	0.000332459	-209.6421848	978.7703081	2.122969185
0.2A	0.201620124	0.201620124	0.002040281	0.010018635	0.001342615	-51.96317066	988.197875	1.180212495
0.3A	0.299830009	0.299830009	0.00302421	0.0100342	0.002331211	-29.72698968	991.4325358	0.856746418
0.4A	0.400742238	0.400742238	0.004036783	0.010051347	0.003350656	-20.47739898	992.7266446	0.727335542
0.5A	0.499468139	0.499468139	0.005029112	0.01006357	0.004349089	-15.63597079	993.1538167	0.684618332
0.6A	0.601033675	0.601033675	0.006051223	0.010048722	0.005362277	-12.84801775	993.2432341	0.675676586
0.7A	0.700408574	0.700408574	0.007049814	0.010069793	0.006375627	-10.57445209	993.5135269	0.64864731
0.8A	0.799888219	0.799888219	0.008051554	0.01007024	0.007377724	-9.13305874	993.4582241	0.654177595
0.9A	0.900271996	0.900271996	0.009062442	0.010065835	0.008384646	-8.083782618	993.4098936	0.659010642
1A	1.000683339	1.000683339	0.010073167	0.010040088	0.009369606	-7.50897081	993.4148813	0.658511873
2A	2.00197986	2.00197986	0.020126271	0.010045125	0.019432796	-3.568583604	994.7097652	0.529023476
3A	3.00218936	3.00218936	0.030173501	0.010040552	0.029466295	-2.400052157	994.9754721	0.502452795
4A	4.01928788	0.040192879	0.040385732	0.01004465	0.039694998	-1.740102889	995.2247293	0.477527068
5A	5.01287758	0.050128776	0.050365993	0.010058855	0.049746464	-1.245372555	995.2901395	0.470986052
7A	7.0165192	0.035082596	0.070520332	0.010059161	0.069902954	-0.883193568	994.9639999	0.503600009
9A	9.011583	0.045057915	0.090589001	0.009980456	0.089262366	-1.486218979	994.7767323	0.522326769
11A	11.01273475	0.02202547	0.110561408	0.010004849	0.109503404	-0.966183373	996.0740325	0.392596755
13A	13.00864155	0.026017283	0.130530154	0.010017563	0.129637543	-0.688543625	996.6004905	0.339950951
15A	15.0089765	0.030161795	0.15128911	0.010015477	0.150365047	-0.614546479	996.8263843	0.317361573
18A	18.01697995	0.03603396	0.180695376	0.010031391	0.180058031	-0.353966652	997.0913672	0.290863281
21A	21.010321	0.042020642	0.210722751	0.010013737	0.20971449	-0.480778039	997.0599235	0.294007646
24A	24.0239638	0.048047928	0.240900578	0.010039797	0.240518386	-0.158903551	997.2563785	0.274362148
27A	26.9881287	0.026988129	0.270660193	0.010051981	0.270606808	-0.019727718	997.1221996	0.287780036
30A	29.9877939	0.029987794	0.30081277	0.010045648	0.300569481	-0.080942522	996.8923161	0.310768389
35A	34.9939615	0.034993962	0.351102968	0.010047049	0.350908688	-0.055364765	996.686576	0.3313424
40A	40.0241448	0.040024145	0.401641464	0.010038831	0.401118274	-0.130432873	996.5142643	0.348573573
45A	45.0588098	0.04505881	0.452183614	0.010064895	0.452834851	0.143813461	996.4715307	0.35284693
50A	49.9803514	0.049980351	0.501718414	0.009991673	0.498710008	-0.60323751	996.1833173	0.381668272
60A	60.0342432	0.030017122	0.602173618	0.010039692	0.602047994	-0.02086608	996.9590398	0.304096019
70A	70.0135252	0.035006763	0.70236254	0.010006906	0.699941401	-0.345905899	996.8288628	0.317113723
80A	80.0103374	0.040005169	0.802399697	0.010094632	0.80699754	0.569746891	997.1381806	0.286181938
90A	90.0565016	0.045028251	0.903812024	0.010073301	0.906488906	0.295302266	996.40743	0.359257004
100A	100.0086142	0.050004307	1.00406265	0.010444954	1.043908013	3.816941959	996.0395818	0.396041821
120A	120.3734156	0.030093354	1.21677206	0.010108312	1.216094717	-0.055698219	989.2848427	1.071515728

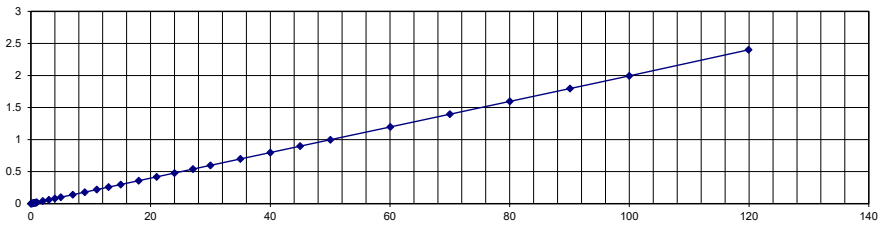
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.000642888	0.000642888	2.87554E-05	0.019935328	-0.000630072	104.5638278	447.1425612	55.28574388
0.1A	0.100474745	0.100474745	0.002018936	0.020047622	0.001371392	-47.21804596	995.3236461	0.467635391
0.2A	0.200853636	0.200853636	0.004031294	0.019971682	0.003368497	-19.67634995	996.4722198	0.35277802
0.3A	0.29992697	0.29992697	0.006009955	0.019955099	0.005342184	-12.49996266	998.1004917	0.189950829
0.4A	0.400247341	0.400247341	0.008011858	0.019935721	0.007336331	-9.207965809	999.1373487	0.086265131
0.5A	0.501374666	0.501374666	0.010027904	0.019966883	0.009368001	-7.044225382	999.9590064	0.004099361
0.6A	0.600597064	0.600597064	0.012009066	0.019918998	0.011320404	-6.083376266	1000.239392	-0.023939246
0.7A	0.700453639	0.700453639	0.013998109	0.019978638	0.013351222	-4.845156832	1000.783211	-0.078321149
0.8A	0.799652759	0.799652759	0.015979973	0.020001332	0.015351232	-4.095700481	1000.818686	-0.081868601
0.9A	0.900456822	0.900456822	0.017996188	0.019992611	0.017359595	-3.66709439	1000.719505	-0.071950459
1A	1.00028068	1.00028068	0.019991928	0.019972236	0.019334953	-3.397857814	1000.684571	-0.06845713
2A	2.0028156	2.0028156	0.039964181	0.01994956	0.039261849	-1.788840834	1001.037186	-0.103718628
3A	3.00280411	3.00280411	0.059964065	0.019927765	0.059196288	-1.297001859	1001.534546	-0.153454574
4A	4.00309096	0.04003091	0.079897546	0.019981538	0.079345025	-0.696352962	1002.056046	-0.205604562
5A	4.9994321	0.049994321	0.099805974	0.019973762	0.09921458	-0.596076107	1001.830229	-0.183022912
7A	7.00815772	0.035040789	0.139927782	0.019951028	0.139177061	-0.539399616	1001.682099	-0.168209913
9A	9.004057	0.045020285	0.179748024	0.019626696	0.176077003	-2.084895268	1001.853239	-0.185323873
11A	11.01069315	0.022021386	0.219131662	0.019855975	0.217985165	-0.525951856	1004.938588	-0.493858802
13A	12.99960415	0.025999208	0.25862343	0.019869518	0.257652983	-0.376649032	1005.292069	-0.529206886
15A	15.004197	0.030008394	0.298453724	0.019938295	0.298515213	0.020598311	1005.462207	-0.546220693
18A	18.0074383	0.036014877	0.358333234	0.019935372	0.358342089	0.002471032	1005.066602	-0.506660233
21A	21.01759235	0.042035185	0.418341774	0.019978621	0.419259626	0.218922195	1004.804858	-0.480485843
24A	24.0101714	0.048020343	0.478129377	0.019957767	0.478546522	0.087169061	1004.337845	-0.433784473
27A	27.0754376	0.027075438	0.539305246	0.019950457	0.539524476	0.040633843	1004.085823	-0.408582341
30A	30.0092743	0.030009274	0.59783663	0.01996413	0.598466169	0.105192047	1003.928926	-0.39289262
35A	35.0123848	0.035012385	0.697719379	0.019971723	0.698614763	0.128165575	1003.623688	-0.362368751
40A	40.0156019	0.040015602	0.797642245	0.019983936	0.799026329	0.173221383	1003.347106	-0.334710582
45A	45.0033857	0.045003386	0.897317796	0.019983504	0.898682469	0.151852603	1003.064598	-0.306459764
50A	50.0388533	0.050038853	0.997944085	0.019877061	0.993982439	-0.398562974	1002.838817	-0.283881737
60A	60.0461782	0.030023089	1.19686029	0.019967006	1.198299486	0.120103169	1003.394944	-0.339494428
70A	70.001975	0.035000988	1.39564774	0.019965495	1.396981194	0.095452522	1003.146754	-0.314675392
80A	80.0220296	0.040011015	1.59570309	0.019948396	1.59566821	-0.002185927	1002.968912	-0.296891197
90A	90.0775932	0.045038797	1.79629545	0.019963625	1.797632445	0.07437531	1002.926252	-0.292625247
100A	99.9825972	0.049991299	1.99403524	0.020401072	2.039109272	2.210476513	1002.816753	-0.281675263
120A	119.9323592	0.02998309	2.40103177	0.020019883	2.400388882	-0.026782659	999.0068495	0.099315054

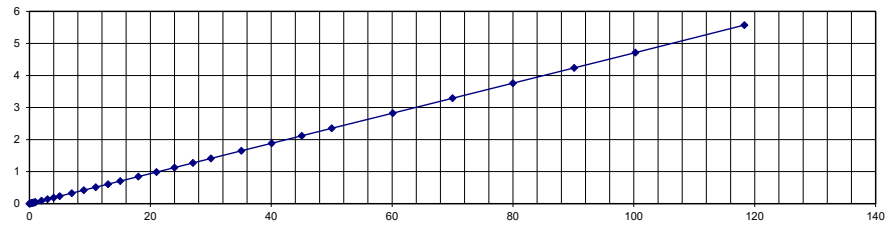
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.000703304	0.000703304	3.38207E-05	0.047133228	-0.000670155	105.0466942	977.3692865	2.263071346
0.1A	0.101173133	0.101173133	0.004769288	0.047058737	0.004057776	-17.53453175	997.0329452	0.296705484
0.2A	0.20045772	0.20045772	0.009441495	0.047010713	0.008720356	-8.269602553	997.8835535	0.211644654
0.3A	0.300302784	0.300302784	0.014135283	0.04702579	0.013418672	-5.340403685	998.5106735	0.148932654
0.4A	0.400583771	0.400583771	0.018851076	0.047009104	0.01812778	-3.989982054	998.7460523	0.125394771
0.5A	0.500121322	0.500121322	0.023530247	0.046941713	0.022773248	-3.324069904	998.9568972	0.10431028
0.6A	0.599874157	0.599874157	0.028212816	0.046950843	0.027461293	-2.736660245	999.3361095	0.066389053
0.7A	0.700163752	0.700163752	0.032921497	0.046683399	0.03198272	-2.93526167	999.5808132	0.041918678
0.8A	0.800495846	0.800495846	0.03760534	0.047406527	0.037245424	-0.966335497	1000.477724	-0.04777237
0.9A	0.901005105	0.901005105	0.042370135	0.046986466	0.041631742	-1.773629572	999.4596485	0.054035148
1A	0.999923583	0.999923583	0.047017964	0.047037019	0.04633012	-1.484658142	999.541537	0.045846304
2A	2.00745119	2.00745119	0.094409059	0.046933788	0.093513985	-0.957155186	999.3766121	0.062338795
3A	2.99968828	2.99968828	0.140978505	0.04695887	0.140158667	-0.584935359	1000.048548	-0.004854754
4A	3.99922456	0.39992246	0.187915599	0.047036817	0.187407491	-0.271124685	1000.255196	-0.025519606
5A	5.00140542	0.050014054	0.235054997	0.046510901	0.231916568	-1.353257754	1000.047043	-0.00470432
7A	7.00518142	0.035025907	0.328252424	0.04682555	0.327318172	-0.285426259	1003.019331	-0.301933106
9A	9.0085344	0.045042672	0.42206053	0.046649447	0.419539845	-0.600821367	1003.17629	-0.317629038
11A	10.98754165	0.021975083	0.514380124	0.046896485	0.514573777	0.037633598	1003.954923	-0.395492255
13A	13.0031176	0.026006235	0.608903551	0.046927881	0.609505449	0.098751906	1003.683631	-0.368363133
15A	15.01493425	0.030029869	0.703313843	0.046866051	0.702987373	-0.046440336	1003.39545	-0.339544966
18A	18.0167687	0.036033537	0.84399797	0.04695605	0.845292989	0.15320353	1003.305883	-0.330588343
21A	21.02281105	0.042045622	0.985149845	0.047057612	0.988579977	0.346975629	1002.966325	-0.296632473
24A	24.01284645	0.048025693	1.12585377	0.047460234	1.138952005	1.150025218	1002.442602	-0.244260243
27A	27.0614766	0.027061477	1.27054247	0.047172226	1.275846792	0.415749167	1001.060122	-0.106012214
30A	30.0366262	0.030036626	1.4108869	0.04756209	1.427901414	1.191574865	1000.591494	-0.059149419
35A	35.0561634	0.035056163	1.64962658	0.046636071	1.63417842	-0.94531661	998.7955455	0.120445453
40A	40.065951	0.040065951	1.88326339	0.047086131	1.8858473	0.137015884	999.9130801	0.008691987
45A	45.0477118	0.045047712	2.11783523	0.047164914	2.12396815	0.288748194	999.7201032	0.027989685
50A	50.0122808	0.050012281	2.3519887	0.046769837	2.338362928	-0.582705602	999.3998685	0.060013145
60A	60.1254182	0.030062709	2.82497849	0.047071566	2.829494276	0.159596937	1000.324309	-0.032430881
70A	70.0098746	0.035004937	3.29025533	0.047062562	3.294140749	0.117949395	1000.063453	-0.006345289
80A	79.9914124	0.039995706	3.76001207	0.047081771	3.765434025	0.143992839	999.8894552	0.011055475
90A	90.1321368	0.045066068	4.23745533	0.047040807	4.239185112	0.040804592	999.7062151	0.02937849
100A	100.2504988	0.050125249	4.71343124	0.047702544	4.781500524	1.423596699	999.6482825	0.035171753
120A	118.2912576	0.029572814	5.57402133	0.04712116	5.573318026	-0.012619124	997.4287463	0.257125367

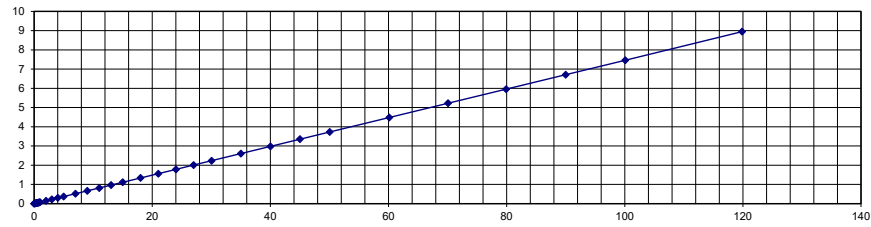
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.000659082	0.000659082	4.64159E-05	0.074522517	-0.000609965	107.6095941	1064.961518	-6.496151824
0.1A	0.100443548	0.100443548	0.007482605	0.074415866	0.006815512	-9.787875024	1006.77045	-0.677045049
0.2A	0.200202511	0.200202511	0.014906255	0.074358956	0.014227768	-4.76875345	1007.307887	-0.730788681
0.3A	0.300263189	0.300263189	0.022346663	0.074358255	0.021667965	-3.132264083	1007.74507	-0.774507036
0.4A	0.400550723	0.400550723	0.029803869	0.074237024	0.029076612	-2.501174938	1007.966601	-0.796660083
0.5A	0.501197438	0.501197438	0.037275581	0.074422304	0.036641186	-1.731370964	1008.429823	-0.842982293
0.6A	0.59983555	0.59983555	0.044616457	0.074361456	0.043945563	-1.526647634	1008.32001	-0.832000961
0.7A	0.700368486	0.700368486	0.052092232	0.074401338	0.051449271	-1.249700105	1008.35833	-0.835832964
0.8A	0.800251071	0.800251071	0.05952363	0.074366668	0.058852924	-1.13963118	1008.319384	-0.831938378
0.9A	0.900697971	0.900697971	0.066993532	0.074406834	0.066359002	-0.956207216	1008.341344	-0.834134447
1A	1.00036422	1.00036422	0.074409382	0.074360762	0.073728763	-0.923138222	1008.304528	-0.830452808
2A	2.00314832	2.00314832	0.148977171	0.07441094	0.148397068	-0.390912725	1008.450644	-0.845064376
3A	3.00027374	3.00027374	0.223174211	0.074157927	0.221834998	-0.603697652	1008.272997	-0.827299665
4A	4.00671764	0.040067176	0.297810004	0.074034031	0.295974377	-0.62019795	1009.045428	-0.904542817
5A	5.00114212	0.050011421	0.371431257	0.07316262	0.365237578	-1.695794488	1009.838703	-0.983870348
7A	7.01445448	0.035072272	0.518730464	0.07418628	0.519717205	0.189861097	1014.176191	-1.417619074
9A	8.99458674	0.044972934	0.665629111	0.074138626	0.66618722	0.083776581	1013.468303	-1.346830292
11A	11.02298685	0.022045974	0.816011908	0.074319539	0.818564219	0.311803429	1013.127389	-1.312738901
13A	13.02027915	0.026040558	0.964449751	0.074441606	0.968591403	0.427595408	1012.516137	-1.251613704
15A	15.007333	0.030014666	1.11236923	0.074291395	1.114256616	0.169385202	1011.849254	-1.184925351
18A	18.01677765	0.036033555	1.33594507	0.074487969	1.341374099	0.404736355	1011.462488	-1.146248756
21A	21.020184	0.042040368	1.55966271	0.074594108	1.567322796	0.488737001	1010.804317	-1.080431679
24A	24.01101445	0.048022029	1.78276104	0.075646631	1.815693262	1.813754701	1010.133183	-1.013318294
27A	27.0079084	0.027007908	2.00946597	0.074598937	2.014102167	0.23018677	1008.025595	-0.802559498
30A	30.0357844	0.030035784	2.2353423	0.074526778	2.23781116	0.110324787	1007.757886	-0.775788567
35A	35.0027207	0.035002721	2.60551206	0.074657572	2.612559074	0.269736067	1007.557821	-0.755782052
40A	40.0233372	0.040023337	2.9803391	0.074649698	2.987070946	0.225366132	1007.184146	-0.718414559
45A	45.0098036	0.045009804	3.35257731	0.074673088	3.36036193	0.231660178	1006.90751	-0.690750961
50A	50.0396773	0.050039677	3.72817351	0.074640352	3.734320045	0.164595818	1006.652664	-0.65266448
60A	60.1365422	0.030068271	4.48180706	0.074607685	4.485989098	0.093224446	1006.344228	-0.634422781
70A	70.0811076	0.035040554	5.22374806	0.074475371	5.218657405	-0.097547221	1006.190002	-0.619000182
80A	79.9093476	0.039954674	5.95570988	0.0745808	5.959044003	0.05595064	1006.294999	-0.629499938
90A	89.9962434	0.044998122	6.70799864	0.074431214	6.6978706	-0.151212838	1006.219383	-0.621938334
100A	100.0792858	0.050039643	7.45849173	0.07525735	7.531042802	0.963360246	1006.362507	-0.636250689
120A	119.8694396	0.02996736	8.94784627	0.074646601	8.947187188	-0.007366358	1004.73429	-0.47342901

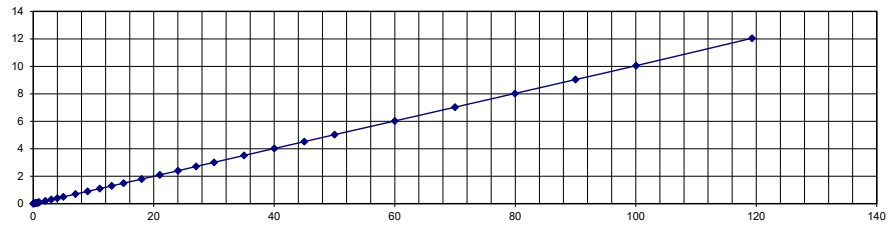
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.000675054	0.000675054	5.48687E-05	0.10003179	-0.000607528	109.0314677	1230.309838	-23.0309838
0.1A	0.101060417	0.101060417	0.010096596	0.099800799	0.009410856	-7.286694262	1000.935513	-0.09355133
0.2A	0.200390304	0.200390304	0.020009798	0.099695908	0.019303039	-3.661389221	1001.460889	-0.146088929
0.3A	0.299389415	0.299389415	0.029879605	0.099755717	0.029190751	-2.359834231	1001.985866	-0.198586631
0.4A	0.400925308	0.400925308	0.04000839	0.099755812	0.039319575	-1.751838191	1002.103069	-0.210306886
0.5A	0.500980072	0.500980072	0.049989435	0.099884079	0.049364879	-1.265182685	1002.171911	-0.217191094
0.6A	0.598945212	0.598945212	0.059774592	0.09986592	0.05913916	-1.074470017	1002.006351	-0.200635078
0.7A	0.70109654	0.70109654	0.069976029	0.099970875	0.06941418	-0.809415084	1001.909587	-0.190958679
0.8A	0.800642193	0.800642193	0.079927695	0.099890864	0.079301786	-0.789274813	1001.708101	-0.170810131
0.9A	0.900827901	0.900827901	0.089935332	0.099811715	0.089238123	-0.781289514	1001.639606	-0.16396059
1A	1.00055028	1.00055028	0.099888793	0.099735695	0.099115523	-0.780170955	1001.664198	-0.16641977
2A	2.00189719	2.00189719	0.199758823	0.099680659	0.198875376	-0.444221182	1002.157081	-0.215708119
3A	3.01219304	3.01219304	0.300465779	0.098291081	0.295396657	-1.716039124	1002.507856	-0.250785631
4A	4.00640423	0.040064042	0.398187872	0.099401278	0.397566645	-0.15625741	1006.159281	-0.615928101
5A	5.00311994	0.050031199	0.497262687	0.099154951	0.49540906	-0.374160949	1006.132185	-0.613218542
7A	7.01809978	0.035090499	0.697057915	0.100532419	0.704871496	1.108511468	1006.817314	-0.681731446
9A	9.01537654	0.045076883	0.897848898	0.097721235	0.880318671	-1.991359461	1004.108346	-0.41083457
11A	11.04433085	0.022088662	1.0961209	0.099946074	1.103162454	0.638306138	1007.583274	-0.758327389
13A	13.02278185	0.026045564	1.29385931	0.100033585	1.302040503	0.628336317	1006.506793	-0.650679323
15A	14.98108455	0.029962169	1.48975535	0.100107032	1.499036849	0.619164154	1005.607031	-0.560703138
18A	18.0140695	0.036028139	1.79337847	0.100257539	1.805371228	0.664282078	1004.476735	-0.447673491
21A	21.0244831	0.042048966	2.09519513	0.100287234	2.107812207	0.598586405	1003.461816	-0.346181599
24A	24.029069	0.048058138	2.39651674	0.103942042	2.496955448	4.022466941	1002.666437	-0.266643662
27A	27.022071	0.027022071	2.70761548	0.100648506	2.719056023	0.420754231	998.0025303	0.199746974
30A	30.0089666	0.030008967	3.00824206	0.10070317	3.021323018	0.432954623	997.5582417	0.244175829
35A	34.9986118	0.034998612	3.51071515	0.100718081	3.524317955	0.385969862	996.9083308	0.309166923
40A	40.0211806	0.040021181	4.01657864	0.10078169	4.032727169	0.400436934	996.3997767	0.36002233
45A	44.996515	0.044996515	4.51800125	0.100807153	4.535295496	0.381325671	995.9385248	0.406147519
50A	50.0215752	0.050021575	5.02456326	0.09986567	4.994763053	-0.59662904	995.5407587	0.44592413
60A	60.019023	0.030009512	6.02296508	0.100449204	6.028188056	0.086642558	996.5029218	0.349707822
70A	70.0154294	0.035007715	7.02709615	0.100440905	7.031738006	0.066012926	996.3636174	0.363638258
80A	79.9600084	0.039980004	8.02593866	0.100620511	8.044941869	0.236213128	996.2698668	0.373013317
90A	90.0015994	0.0450008	9.03632868	0.100614388	9.05477899	0.203763228	995.9974077	0.400259234
100A	100.063907	0.050031954	10.0487414	0.103839271	10.3898881	3.28344926	995.7854722	0.42145278
120A	119.3128268	0.029828207	12.0475352	0.100974351	12.04686015	-0.005603572	990.3505142	0.964948581

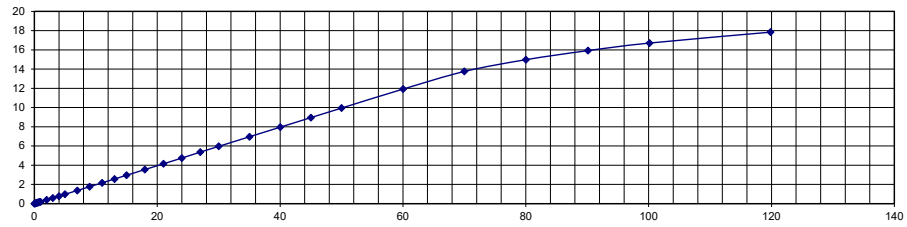
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.000570767	0.000570767	0.000103162	0.195307898	-0.000459292	122.4611129	1106.544762	-10.65447625
0.1A	0.099980101	0.099980101	0.01951859	0.195725483	0.018997886	-2.740851639	1024.460277	-2.446027697
0.2A	0.200581362	0.200581362	0.039208821	0.196680162	0.038879607	-0.846749959	1023.144075	-2.314407545
0.3A	0.29905237	0.29905237	0.058566844	0.196745271	0.058257099	-0.531686752	1021.073411	-2.107341136
0.4A	0.400153895	0.400153895	0.078467364	0.197094633	0.078297418	-0.217052511	1019.924394	-1.992439422
0.5A	0.500692595	0.500692595	0.098283003	0.196994302	0.098062821	-0.224531206	1018.879322	-1.88793225
0.6A	0.600600335	0.600600335	0.117964258	0.196366863	0.117367236	-0.508678451	1018.275103	-1.827510329
0.7A	0.700269071	0.700269071	0.137535895	0.196104505	0.136755152	-0.5709058	1018.30736	-1.830736042
0.8A	0.80083261	0.80083261	0.157256858	0.195632073	0.15697776	-0.742535829	1018.502621	-1.850262073
0.9A	0.9014673	0.9014673	0.176944231	0.195631999	0.175785082	-0.659412382	1018.928162	-1.892816161
1A	0.999833345	0.999833345	0.196187777	0.194064092	0.193460983	-1.409479958	1019.261608	-1.926160772
2A	2.00129013	2.00129013	0.390534579	0.195262149	0.390205443	-0.084349362	1024.897788	-2.48977876
3A	3.00534925	3.00534925	0.58658932	0.196479391	0.589918422	0.564332597	1024.685976	-2.468597621
4A	4.00532245	0.040053225	0.783063445	0.197610778	0.79092412	0.993859539	1022.987978	-2.298797769
5A	5.00044447	0.050004445	0.979710282	0.196104107	0.980036932	0.03333038	1020.800651	-2.080065135
7A	6.99730804	0.03498654	1.37130343	0.198137961	1.385861581	1.050476549	1020.533878	-2.053387849
9A	9.00569466	0.045028473	1.76924106	0.195911229	1.763745942	-0.311559518	1018.029127	-1.802912713
11A	11.03599375	0.022071988	2.16699945	0.198376275	2.188708569	0.991868851	1018.550674	-1.855067384
13A	13.0479914	0.026095983	2.56613205	0.198593581	2.590676566	0.947417208	1016.938423	-1.693842295
15A	15.01080575	0.030021612	2.95593438	0.198501108	2.979090805	0.777298395	1015.638632	-1.563863201
18A	17.98385505	0.03596771	3.54608796	0.199098202	3.57998243	0.946777546	1014.292666	-1.429266577
21A	21.0306001	0.0420612	4.15268942	0.198749148	4.179243076	0.635369977	1012.866505	-1.28665052
24A	24.0067146	0.048013429	4.74418964	0.205783886	4.939624249	3.956467115	1012.047006	-1.204700578
27A	27.0073582	0.027007358	5.36167374	0.199583228	5.389644952	0.518980598	1007.422664	-0.742266351
30A	30.0162188	0.030016219	5.96219185	0.199340028	5.982863121	0.345507997	1006.885372	-0.68853722
35A	35.0279142	0.035027914	6.96122335	0.199208969	6.977303899	0.230469382	1006.37237	-0.637236988
40A	40.0369833	0.040036983	7.95907484	0.199051334	7.96884415	0.12259382	1006.071286	-0.607128604
45A	45.0224659	0.045022466	8.9514418	0.198979336	8.957969603	0.07287146	1005.926574	-0.592657375
50A	50.0203987	0.050020399	9.94592715	0.197207411	9.863822541	-0.83238125	1005.846875	-0.584687472
60A	60.0408946	0.030020447	11.9220432	0.183783917	11.03398004	-8.048439111	1007.224913	-0.722491259
70A	70.002473	0.035001237	13.7528211	0.12224912	8.557169957	-60.71693293	1018.008923	-1.800892327
80A	80.0298916	0.040014946	14.9786642	0.09340155	7.474345191	-100.4010227	1068.585163	-6.858516262
90A	90.134529	0.045067265	15.922453	0.078401155	7.066080427	-125.3364247	1132.168881	-13.21688813
100A	100.1591466	0.050079573	16.7083946	0.057476617	5.756238095	-190.2658703	1198.908082	-19.89080818
120A	119.8475724	0.029961893	17.8400187	0.148855904	17.83944793	-0.003199468	1343.581242	-34.35812419

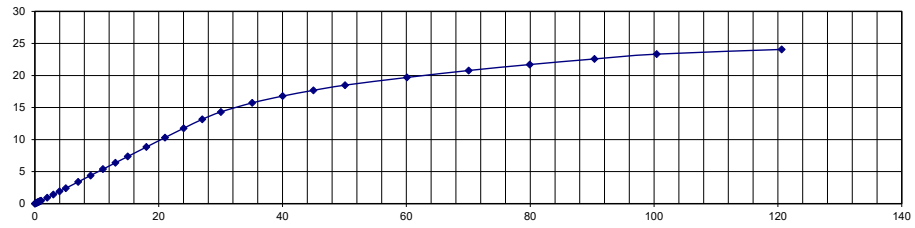
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.001585864	0.001585864	0.000811947	0.450137211	-0.000872008	193.1124399	976.5803176	2.341968235
0.1A	0.100604454	0.100604454	0.0453839	0.467567979	0.045453557	0.153250626	1108.371637	-10.83716374
0.2A	0.199459113	0.199459113	0.091605173	0.468624346	0.091885533	0.305118735	1088.689139	-8.868913915
0.3A	0.301006036	0.301006036	0.139192533	0.467875945	0.13924762	0.039560219	1081.257843	-8.125784305
0.4A	0.400458969	0.400458969	0.185724168	0.46582094	0.184956309	-0.415156738	1078.101394	-7.810139443
0.5A	0.500399897	0.500399897	0.232278745	0.463783082	0.230491143	-0.775562251	1077.153867	-7.715386744
0.6A	0.60070679	0.60070679	0.278799385	0.463112846	0.276609167	-0.791809443	1077.310106	-7.731010597
0.7A	0.700803616	0.700803616	0.325155511	0.462519961	0.322549797	-0.807848485	1077.643762	-7.764376166
0.8A	0.79982235	0.79982235	0.371027602	0.46357343	0.369264644	-0.477423868	1078.062967	-7.806296713
0.9A	0.900484587	0.900484587	0.417617822	0.463522	0.415808553	-0.435120622	1078.1204	-7.812040047
1A	1.00011553	1.00011553	0.463798956	0.47357344	0.472042288	1.746312163	1078.177858	-7.817785817
2A	2.00194444	2.00194444	0.938238519	0.485189269	0.969736096	3.248056575	1066.863276	-6.866327595
3A	2.99558643	2.99558643	1.42034295	0.491024263	1.469319754	3.333297879	1054.529271	-5.452927055
4A	3.99590425	0.039959043	1.91152327	0.49029111	1.957570467	2.352262565	1045.21465	-4.521464968
5A	5.01120314	0.050112031	2.40931529	0.497925641	2.493620674	3.380842364	1039.964168	-3.996416758
7A	7.00510146	0.035025507	3.40212839	0.497097015	3.480629162	2.255361554	1029.517504	-2.951750448
9A	8.9986894	0.044999345	4.39372135	0.492773259	4.433308886	0.892956868	1024.173841	-2.41738407
11A	11.01034855	0.022020697	5.38443194	0.494245887	5.440233621	1.025722152	1022.42434	-2.242434046
13A	13.0075469	0.026015094	6.37153901	0.493407371	6.416433662	0.699682316	1020.753925	-2.075392457
15A	15.0078037	0.030015607	7.35848046	0.492089409	7.383595383	0.340144901	1019.762421	-1.976242117
18A	18.0206012	0.036041202	8.8410462	0.490241461	8.832859989	-0.09267905	1019.14416	-1.914415966
21A	21.03057265	0.042061145	10.316659	0.482338042	10.14225938	-1.719534251	1019.253067	-1.925306681
24A	24.02787345	0.048055747	11.7623712	0.464767977	11.16580027	-5.342840821	1021.387314	-2.138731389
27A	27.0407667	0.027040767	13.1626675	0.383913879	10.37973978	-26.81115109	1027.176547	-2.717654685
30A	30.0400977	0.030040098	14.3141523	0.27881224	8.373961052	-70.9364566	1049.31459	-4.931458987
35A	35.1032567	0.035103257	15.725823	0.215142847	7.550628724	-108.2717026	1116.102372	-11.61023719
40A	40.0348313	0.040034831	16.786816	0.18105912	7.247085458	-131.6354084	1192.448625	-19.24486246
45A	44.984841	0.044984841	17.6830604	0.158122599	7.111534095	-148.6532464	1271.975551	-27.19755512
50A	50.08798	0.05008798	18.489982	0.120045731	6.011262322	-207.5890056	1354.462649	-35.4462649
60A	60.1000378	0.030050019	19.6918868	0.10894416	6.545962285	-200.8249352	1526.010138	-52.60101383
70A	70.0688328	0.035034416	20.7779288	0.094188982	6.598126189	-214.9065084	1686.136127	-68.61361273
80A	79.921878	0.039960939	21.7059771	0.083703502	6.688155204	-224.5435615	1841.010834	-84.10108338
90A	90.376394	0.045188197	22.5810567	0.074644483	6.744513302	-234.8063187	2001.15511	-100.115511
100A	100.4217942	0.050210897	23.3308904	0.036454991	3.659289744	-537.57975	2152.120911	-115.2120911
120A	120.6190588	0.030154765	24.0671815	0.199530503	24.06559564	-0.006589755	2505.882519	-150.5882519

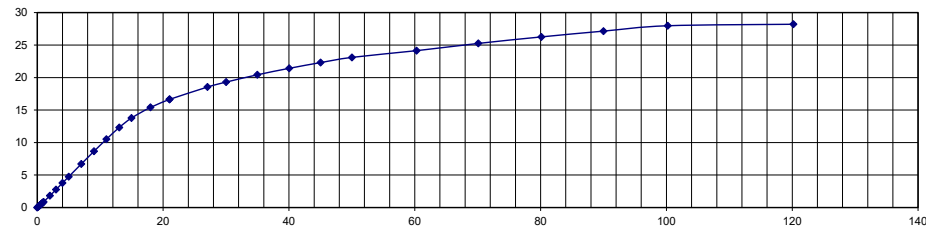
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-1000-A
Lot #:	131668
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	0.001594973	0.001594973	0.001621365	0.788895269	-0.000336706	581.536849	983.7222808	1.627771917
0.1A	0.100696538	0.100696538	0.079802121	0.858557116	0.084858756	5.958884229	1261.82784	-26.18278404
0.2A	0.20049439	0.20049439	0.165484277	0.862644055	0.17136032	3.429057227	1211.561567	-21.15615673
0.3A	0.299984558	0.299984558	0.251308879	0.864829602	0.257840553	2.533222	1193.688656	-19.36886559
0.4A	0.400123717	0.400123717	0.337912188	0.872142976	0.347370116	2.72272361	1184.105609	-18.41056085
0.5A	0.501661111	0.501661111	0.426467313	0.875638961	0.437679041	2.561632322	1176.317846	-17.6317846
0.6A	0.60141544	0.60141544	0.51381609	0.888964623	0.533042076	3.606842166	1170.487752	-17.04877518
0.7A	0.70150599	0.70150599	0.602793048	0.890740603	0.623264895	3.284614198	1163.759258	-16.37592576
0.8A	0.800737656	0.800737656	0.691182722	0.907060681	0.72472267	4.627970063	1158.503577	-15.85035773
0.9A	0.899952252	0.899952252	0.781176381	0.9093698	0.816794426	4.360711086	1152.047447	-15.20474427
1A	1.00098267	1.00098267	0.873050392	0.943756711	0.943089139	7.426524582	1146.534815	-14.65348154
2A	2.00575484	2.00575484	1.82131087	0.968466369	1.940911135	6.162068037	1101.2699	-10.12699002
3A	2.98587446	2.98587446	2.77052376	0.99758128	2.977057494	6.937512438	1077.729238	-7.772923774
4A	4.00659223	0.040659223	3.7887727	0.974998071	3.904824724	2.972016219	1057.490789	-5.749078851
5A	5.00475483	0.050047548	4.76197931	0.976685584	4.886476923	2.547799058	1050.982061	-5.098206107
7A	7.00803044	0.035040152	6.71854972	0.966443007	6.771267042	0.778544419	1043.086787	-4.308678689
9A	9.02208578	0.045110429	8.66501942	0.939887861	8.478153935	-2.204082237	1041.207797	-4.120779685
11A	10.99876125	0.021997523	10.5228727	0.888608999	9.772003247	-7.683884601	1045.224205	-4.522420479
13A	13.0330903	0.026066181	12.3305958	0.742928684	9.681061658	-27.36821885	1056.971659	-5.697165907
15A	14.989314	0.029978628	13.7839305	0.542251681	8.126385734	-69.61944647	1087.44846	-8.744846036
18A	18.0055029	0.036011006	15.419464	0.406032321	7.309221161	-110.9590565	1167.712633	-16.77126326
21A	21.0239961	0.042047992	16.6450698	0.344484588	7.240847668	-129.8773647	1263.076476	-26.30764757
24A	21.05600595	0.042112012	16.6560967	0.315094906	6.633045243	-151.107841	1264.162086	-26.41620861
27A	27.0669546	0.027066955	18.550116	0.255695704	6.91930905	-168.0920286	1459.125894	-45.91258944
30A	30.0332602	0.03003326	19.3085876	0.225788673	6.779575	-184.8052806	1555.435375	-55.54353753
35A	34.9809114	0.034980911	20.4257112	0.196873469	6.885218395	-196.660324	1712.592088	-71.25920883
40A	40.060221	0.04060221	21.4256925	0.176787652	7.08055742	-202.5989513	1869.728178	-86.9728178
45A	45.0386841	0.045038684	22.3058233	0.160790183	7.240183304	-208.0836819	2019.144664	-101.9144664
50A	50.0139897	0.05001399	23.1058036	0.106612174	5.03042125	-359.3214455	2164.563958	-116.4563958
60A	60.2920352	0.030146018	24.1399001	0.113648757	6.850519887	-252.3805565	2497.609143	-149.7609143
70A	70.0960034	0.035048002	25.2541089	0.099997253	7.007812809	-260.3707688	2775.627668	-177.5627668
80A	80.1431404	0.04007157	26.258795	0.09008355	7.217983632	-263.7968211	3052.049433	-205.2049433
90A	90.0015818	0.045000791	27.1468784	0.080890577	7.278684669	-272.9640572	3315.356575	-231.5356575
100A	100.2142918	0.050107146	27.9729904	0.011405968	1.141445982	-2350.662654	3582.537668	-258.2537668
120A	120.2054324	0.030051358	28.2010087	0.234606774	28.19941373	-0.00566051	4262.45152	-326.245152