

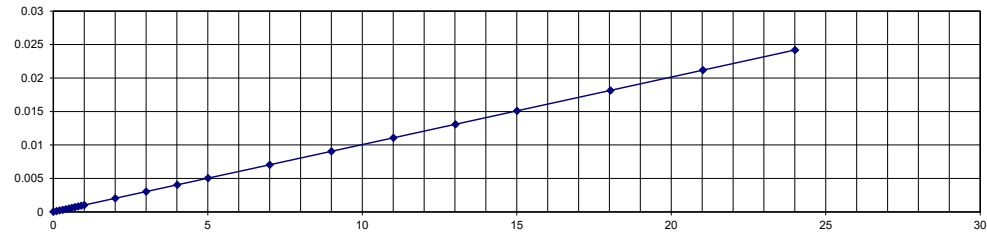
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
TURNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.000775662	0.000775662	2.74254E-05	0.000890998	-0.000774971	103.5388886	28.28265893	97.17173411
0.1A	0.10016108	0.10016108	0.000115978	0.001042272	-0.000671267	117.2774113	863.6247646	13.63752354
0.2A	0.200725624	0.200725624	0.000220793	0.000987033	-0.000577539	138.2299877	909.1116912	9.088830881
0.3A	0.300030826	0.300030826	0.000318811	0.000975679	-0.000482928	166.016152	941.0940573	5.89059427
0.4A	0.399935106	0.399935106	0.000416285	0.000985029	-0.000381714	209.0567617	960.723927	3.927607295
0.5A	0.49996898	0.49996898	0.000514821	0.000997404	-0.000276991	285.862276	971.1502616	2.884973843
0.6A	0.600375994	0.600375994	0.000614968	0.001030302	-0.000157093	491.4669571	976.2722089	2.372779108
0.7A	0.700439915	0.700439915	0.000718064	0.00103602	-4.99924E-05	1536.345219	975.4562184	2.45437816
0.8A	0.800019976	0.800019976	0.000821231	0.001031314	4.94102E-05	-1562.066967	974.1718803	2.582811967
0.9A	0.900942188	0.900942188	0.000925313	0.001023189	0.000146172	-533.0298678	973.6617054	2.633829462
1A	1.00123303	1.00123303	0.00102793	0.001008993	0.000234575	-338.2087669	974.0285585	2.597144153
2A	2.00321583	2.00321583	0.002038924	0.001002598	0.001232759	-65.39520028	982.4868926	1.751310736
3A	3.00181143	3.00181143	0.003040114	0.001001038	0.002229264	-36.37298255	987.4009688	1.259903116
4A	4.00784845	0.040078485	0.004047195	0.001002794	0.003243386	-24.78302463	990.2781205	0.972187948
5A	5.00226989	0.050022699	0.005044395	0.001000823	0.004230724	-19.23244181	991.6491313	0.835086869
7A	7.0017932	0.035008966	0.007045563	0.00100681	0.006273811	-12.30116882	993.7875529	0.621244712
9A	8.99660138	0.044983007	0.009053956	0.001004476	0.008261212	-9.595975382	993.6652859	0.633471408
11A	11.00588035	0.022011761	0.011072229	0.00100771	0.01031507	-7.340316856	994.0076609	0.599233909
13A	13.01295715	0.026025914	0.01309478	0.001008225	0.012344325	-6.079346059	993.7515214	0.624847859
15A	15.00689195	0.030013784	0.015105114	0.001009314	0.01437101	-5.10823071	993.497411	0.650258899
18A	18.0300809	0.036060162	0.018156462	0.001010146	0.017437359	-4.123923361	993.0393103	0.696068966
21A	21.02186045	0.042043721	0.021178598	0.001009862	0.020453516	-3.545021518	992.5992621	0.740073787
24A	24.0066238	0.048013248	0.024192797	0.001007755	0.023417135	-3.312369298	992.3046103	0.769538973

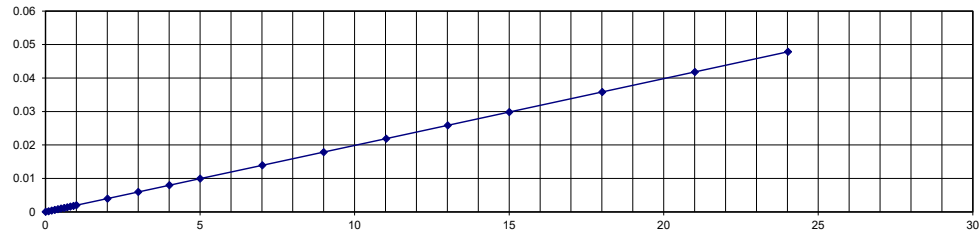
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
URNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.000803935	0.000803935	2.36802E-05	0.001874551	-0.000802428	102.951068	67.89935477	93.21006452
0.1A	0.100287196	0.100287196	0.000210167	0.002034466	-0.000599904	135.0333579	954.3586234	4.564137659
0.2A	0.200374485	0.200374485	0.000413791	0.002016195	-0.000399941	203.4628663	968.4818089	3.151819108
0.3A	0.300681164	0.300681164	0.000616029	0.001994573	-0.000204205	401.6718657	976.1920749	2.380792513
0.4A	0.399805203	0.399805203	0.000813739	0.00199186	-7.57947E-06	10836.09334	982.6376479	1.736235208
0.5A	0.500585099	0.500585099	0.001014478	0.001921954	0.000158166	-54.14006024	986.8818658	1.311813424
0.6A	0.599625203	0.599625203	0.001204829	0.002020177	0.000407414	-195.7259895	995.3699861	0.46300139
0.7A	0.700326678	0.700326678	0.001408264	0.002019674	0.000610496	-130.6753042	994.5959877	0.540401232
0.8A	0.800644321	0.800644321	0.001610873	0.002006017	0.00080217	-100.8142671	994.0504865	0.594951351
0.9A	0.900592592	0.900592592	0.001811137	0.001973728	0.000973589	-86.05080493	994.3770442	0.562295584
1A	1.00037519	1.00037519	0.002008314	0.001977385	0.001174192	-71.03803722	996.2337864	0.376621362
2A	2.00215727	2.00215727	0.003989223	0.001977098	0.003154525	-26.46034815	1003.783073	-0.378307252
3A	3.00135363	3.00135363	0.005964732	0.00199409	0.005181035	-15.12626201	1006.366687	-0.636668706
4A	4.00671012	0.040067101	0.007969503	0.001990439	0.007171176	-11.132442	1005.510622	-0.551062196
5A	5.00289199	0.05002892	0.009952342	0.00197727	0.009088132	-9.509225701	1005.369742	-0.536974186
7A	7.01581544	0.035079077	0.013932435	0.001991626	0.013168947	-5.79764141	1007.119773	-0.711977334
9A	8.9981918	0.044990959	0.017880588	0.001988451	0.017088527	-4.635042071	1006.478057	-0.647605664
11A	11.0203639	0.022040728	0.021901578	0.001995266	0.021184622	-3.384324144	1006.353419	-0.635341895
13A	13.0095778	0.026019156	0.025870589	0.001995747	0.025159887	-2.82474268	1005.742695	-0.574269499
15A	15.00144665	0.030002893	0.029845854	0.001995224	0.029127314	-2.466895931	1005.261665	-0.526166542
18A	18.00912745	0.036018255	0.035846852	0.001996791	0.03515653	-1.963567075	1004.781536	-0.478153564
21A	21.00874655	0.042017493	0.041836465	0.00199733	0.041115746	-1.649772598	1004.327051	-0.432705062
24A	24.0194562	0.048038912	0.047849845	0.001992129	0.047045909	-1.708831723	1003.951271	-0.395127092

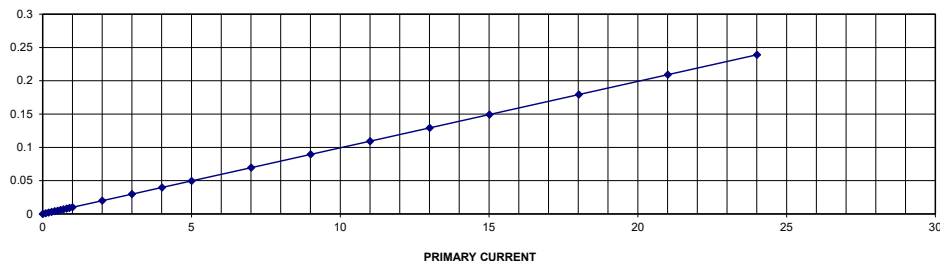
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
URNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

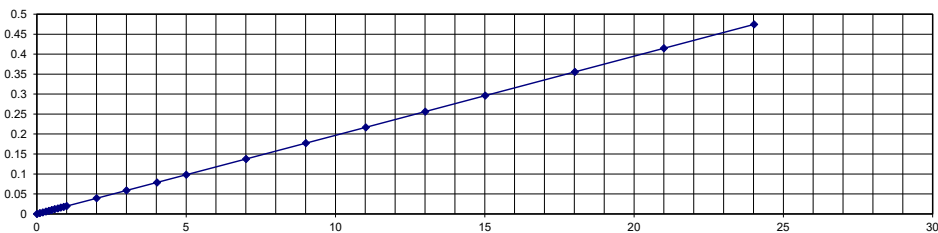


Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000844501	0.000844501	2.47945E-05	0.009940757	-0.000836106	102.9654765	340.5997536	65.94002464
0.1A	0.099827048	0.099827048	0.001008756	0.009909486	0.000144734	-596.9717932	989.6054991	1.039450085
0.2A	0.200582438	0.200582438	0.00200719	0.0099675	0.001154805	-73.81207867	999.3195612	0.068043877
0.3A	0.300278792	0.300278792	0.003000914	0.010036252	0.002169173	-38.34366639	1000.624606	-0.062460647
0.4A	0.401041478	0.401041478	0.004012193	0.009956111	0.003148313	-27.43947406	999.5567312	0.044326878
0.5A	0.500502144	0.500502144	0.005002435	0.009911146	0.004116049	-21.53486051	1000.5171	-0.051710021
0.6A	0.60015244	0.60015244	0.005990083	0.009902926	0.005098764	-17.48107505	1001.910003	-0.191000348
0.7A	0.701017503	0.701017503	0.006988943	0.009925492	0.006113443	-14.32088804	1003.038009	-0.303800894
0.8A	0.801999441	0.801999441	0.007991238	0.00998266	0.007161587	-11.58473948	1003.598491	-0.359849124
0.9A	0.899950834	0.899950834	0.008969053	0.009942008	0.008102818	-10.690546	1003.395555	-0.339555453
1A	1.00009761	1.00009761	0.009964714	0.009877969	0.009034433	-10.29705702	1003.639101	-0.363910111
2A	2.00063561	2.00063561	0.019847997	0.009869334	0.018900441	-5.013407561	1007.978588	-0.797858843
3A	3.00048926	3.00048926	0.029715887	0.009947056	0.029001534	-2.463157393	1009.725626	-0.972562589
4A	4.01008316	0.040100832	0.039758374	0.009884701	0.038793971	-2.48595984	1008.613474	-0.86134735
5A	5.00421819	0.050042182	0.049585081	0.009919916	0.048796903	-1.615221174	1009.218105	-0.921810527
7A	7.00866212	0.035043311	0.069469017	0.009968644	0.069022357	-0.647122452	1008.89036	-0.889036048
9A	9.00565904	0.045028295	0.089376368	0.009958466	0.088838047	-0.605958146	1007.610762	-0.761076238
11A	11.0009462	0.022001892	0.109246367	0.009975896	0.108899794	-0.318249412	1006.985084	-0.698508354
13A	13.00428205	0.026008564	0.129231437	0.00998011	0.128939666	-0.226285037	1006.27853	-0.627853035
15A	15.0112039	0.030022408	0.149260738	0.009983085	0.149013629	-0.165830013	1005.703449	-0.570344895
18A	18.01389185	0.036027784	0.179236828	0.009982085	0.178971707	-0.148135604	1005.032953	-0.503295283
21A	21.0066276	0.042013255	0.209110572	0.009983813	0.20888174	-0.109551014	1004.570328	-0.457032847
24A	24.00232395	0.048004648	0.239019044	0.009958163	0.238174543	-0.354572166	1004.20132	-0.420132004

CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
TURNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb



TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.000795836	0.000795836	3.26942E-05	0.019731766	-0.000780132	104.1908549	486.8357313	51.31642687
0.1A	0.100354786	0.100354786	0.001997168	0.01970242	0.001181397	-69.05146056	1004.970833	-0.497083338
0.2A	0.200785949	0.200785949	0.003975905	0.019692861	0.003158214	-25.89092144	1010.013795	-1.00137954
0.3A	0.301339765	0.301339765	0.005956097	0.019713708	0.005144688	-15.77178117	1011.869828	-1.186982762
0.4A	0.400169545	0.400169545	0.007904399	0.019720685	0.007095782	-11.39574198	1012.523667	-1.252366714
0.5A	0.499811535	0.499811535	0.009869407	0.019657968	0.009029444	-9.302494663	1012.850173	-1.285017312
0.6A	0.600066876	0.600066876	0.011840223	0.019556864	0.010939591	-8.232779697	1013.607355	-1.360735474
0.7A	0.701071999	0.701071999	0.013815567	0.01955353	0.012912597	-6.992941073	1014.90153	-1.490152967
0.8A	0.80092932	0.80092932	0.01576813	0.01958386	0.014889452	-5.901343864	1015.88371	-1.588370974
0.9A	0.900859144	0.900859144	0.017725142	0.019523087	0.016791716	-5.55884936	1016.476098	-1.647609847
1A	1.00000214	1.00000214	0.019660719	0.019524533	0.018728739	-4.976203914	1017.258972	-1.725897207
2A	2.00039285	2.00039285	0.03919288	0.019550846	0.038313536	-2.295125758	1020.794006	-2.079400646
3A	3.0002557	3.0002557	0.058741044	0.019639646	0.058128125	-1.054428516	1021.519362	-2.15193621
4A	4.02488492	0.040248849	0.0788644	0.019682037	0.078422096	-0.564003139	1020.710218	-2.071021792
5A	5.00314539	0.050031454	0.098118558	0.019697453	0.097753387	-0.373563773	1019.816333	-1.981633285
7A	7.00428964	0.035021448	0.137536003	0.01977179	0.137691511	0.112939432	1018.539072	-1.853907155
9A	9.00435616	0.045021781	0.177080899	0.019732033	0.176878416	-0.114475825	1016.976558	-1.697655827
11A	11.01188135	0.022023763	0.216693452	0.019815612	0.217411336	0.330196359	1016.355709	-1.63557088
13A	13.0040428	0.026008086	0.256169351	0.019853088	0.257374574	0.46827588	1015.269215	-1.52692154
15A	15.01415465	0.030028309	0.296076279	0.019806498	0.296581986	0.170511766	1014.208548	-1.420854793
18A	18.0183538	0.036036708	0.355578943	0.01980667	0.356087761	0.142891184	1013.465738	-1.346573832
21A	21.00019045	0.042000381	0.414639199	0.019811617	0.415251893	0.147547576	1012.938019	-1.29380194
24A	24.01712825	0.048034257	0.474409615	0.01975297	0.473613779	-0.168034719	1012.505965	-1.250596491

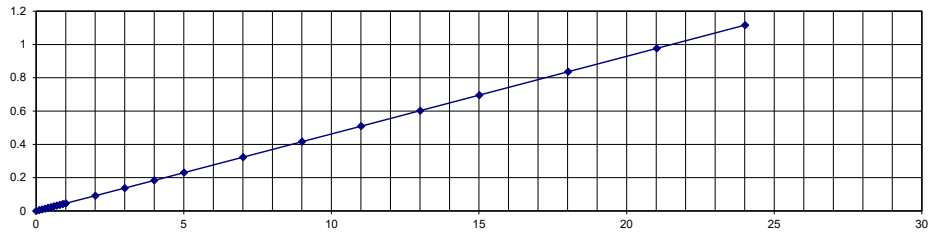
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
URNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.00080481	0.00080481	4.46042E-05	0.046196735	-0.00076763	105.8106311	848.0388454	15.19611546
0.1A	0.100240535	0.100240535	0.00463821	0.046083567	0.003814632	-21.58998782	1015.759337	-1.575933701
0.2A	0.199865632	0.199865632	0.00922929	0.04601305	0.008391617	-9.982251786	1017.812295	-1.781229502
0.3A	0.30005423	0.30005423	0.013837027	0.045787106	0.01293157	-7.00191065	1019.023435	-1.902343467
0.4A	0.400179095	0.400179095	0.01842369	0.045729992	0.017495377	-5.306045024	1020.882238	-2.088223767
0.5A	0.500117074	0.500117074	0.022993853	0.045440706	0.021920863	-4.894831717	1022.251594	-2.225159424
0.6A	0.600144674	0.600144674	0.027539177	0.045405098	0.026444818	-4.138276985	1024.242637	-2.424263689
0.7A	0.70094849	0.70094849	0.032116185	0.045165172	0.030853649	-4.092013041	1025.793678	-2.579367826
0.8A	0.800246115	0.800246115	0.036600979	0.045277073	0.035427992	-3.310904696	1027.610972	-2.761097211
0.9A	0.900241358	0.900241358	0.041128471	0.045217793	0.039902117	-3.073404584	1028.760445	-2.876044516
1A	1.00004527	1.00004527	0.045641383	0.045721959	0.044919219	-1.607694569	1029.813829	-2.981382885
2A	2.001145	2.001145	0.091413625	0.04593879	0.09112537	-0.316327129	1028.881804	-2.888180412
3A	2.99849585	2.99849585	0.137230716	0.045981778	0.137071362	-0.116256352	1026.951612	-2.695161155
4A	4.00178758	0.040017876	0.183363854	0.046354361	0.184695495	0.720992637	1025.742054	-2.574205416
5A	5.00603064	0.050060306	0.229914899	0.046506757	0.232009439	0.90278223	1023.350123	-2.33501226
7A	7.0060482	0.035030241	0.322929229	0.0465901	0.325607679	0.822600494	1019.679347	-1.967934714
9A	9.00174246	0.045008712	0.415908825	0.046469135	0.417498373	0.380731627	1017.246738	-1.72467382
11A	11.00672395	0.022013448	0.50907858	0.046683601	0.513028701	0.769960997	1016.181089	-1.618108868
13A	13.0069826	0.026013965	0.602457857	0.046597379	0.605286487	0.467320861	1014.723561	-1.472356132
15A	15.01038655	0.030020773	0.69581123	0.046697203	0.700138259	0.618024942	1013.907418	-1.390741832
18A	18.01513865	0.036030277	0.836124749	0.046722536	0.840908162	0.568838953	1012.661708	-1.266170815
21A	21.0181339	0.042036268	0.976432304	0.046764057	0.982088395	0.575924803	1011.695628	-1.169562831
24A	24.00995745	0.048019915	1.11634211	0.046494964	1.1155373	-0.072145492	1010.862163	-1.086216317

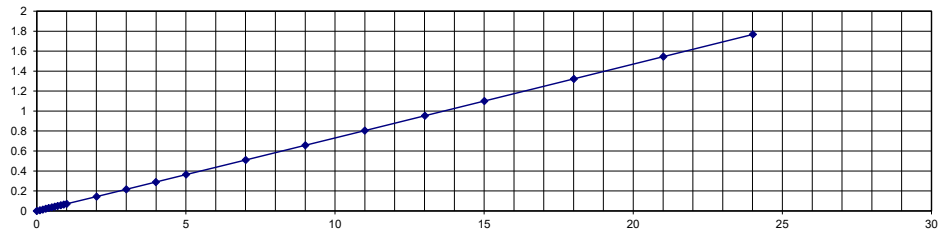
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
TURNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.000817021	0.000817021	5.91028E-05	0.072195976	-0.000758035	107.796839	1036.779603	-3.677960291
0.1A	0.100268413	0.100268413	0.007239093	0.072064934	0.006408816	-12.95523744	1038.822242	-3.882224184
0.2A	0.200044423	0.200044423	0.014429445	0.071682912	0.013522746	-6.704988901	1039.771941	-3.977194112
0.3A	0.299565246	0.299565246	0.021563387	0.071253022	0.020527908	-5.044248583	1041.923207	-4.192320742
0.4A	0.400443321	0.400443321	0.028751255	0.070796974	0.027533155	-4.424120498	1044.589159	-4.458915911
0.5A	0.499996153	0.499996153	0.035799294	0.070722691	0.034544053	-3.633740268	1047.498629	-4.749862861
0.6A	0.60025099	0.60025099	0.042889586	0.070529246	0.041518229	-3.303024458	1049.644645	-4.964464451
0.7A	0.701048026	0.701048026	0.049998725	0.070767038	0.048794071	-2.468852121	1051.598857	-5.159885687
0.8A	0.80178729	0.80178729	0.057127744	0.071271786	0.056327792	-1.420173863	1052.624212	-5.262421249
0.9A	0.900304508	0.900304508	0.064149242	0.071196757	0.063281741	-1.370856068	1052.5898	-5.258979965
1A	1.00072677	1.00072677	0.071298982	0.072179286	0.071414723	0.162068975	1052.672927	-5.267292688
2A	2.00173528	2.00173528	0.143551061	0.072907714	0.145124922	1.084487169	1045.830974	-4.583097439
3A	3.00002604	3.00002604	0.216334158	0.073658808	0.220161322	1.738345312	1040.066696	-4.006669626
4A	3.99250099	0.03992501	0.289438668	0.073545917	0.292815124	1.153097469	1034.545812	-3.454581209
5A	5.00609891	0.050060989	0.363984668	0.073092504	0.365091285	0.30310705	1031.519872	-3.151987229
7A	7.002335	0.035011675	0.509894563	0.07372586	0.515436152	1.075126224	1029.968082	-2.996808185
9A	9.0017757	0.045008879	0.657305049	0.073516141	0.660958787	0.552793678	1027.123066	-2.712306642
11A	10.99729985	0.0219946	0.804008283	0.073971332	0.812667898	1.065578583	1025.856955	-2.58569547
13A	13.00962315	0.026019246	0.952862518	0.07388088	0.960345388	0.77918528	1023.990049	-2.399004874
15A	15.00727155	0.030014543	1.10045054	0.073963697	1.109176267	0.786685339	1022.804138	-2.280413825
18A	18.00881445	0.036017629	1.32245575	0.07410582	1.333740949	0.846131275	1021.327998	-2.132799812
21A	21.00934435	0.042018689	1.54481248	0.074144507	1.556910461	0.777050504	1019.994884	-1.999488394
24A	24.01121905	0.048022438	1.767385	0.073606633	1.766567979	-0.046249038	1018.929904	-1.892990421

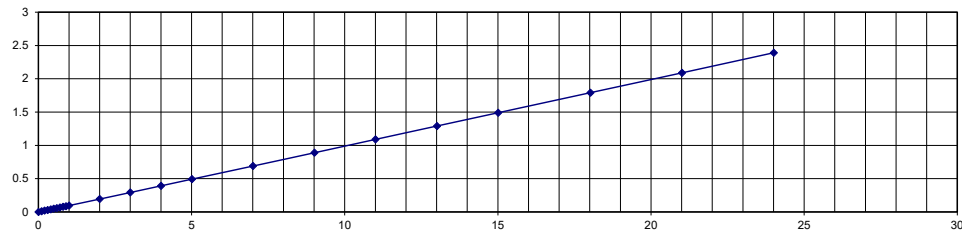
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
URNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.000894174	0.000894174	8.54752E-05	0.096329933	-0.000808038	110.5781153	1046.120722	-4.612072196
0.1A	0.101138007	0.101138007	0.009741957	0.096433551	0.008858924	-9.967727872	1038.169313	-3.816931278
0.2A	0.200195511	0.200195511	0.019294424	0.095638454	0.018252215	-5.710037483	1037.582221	-3.758222104
0.3A	0.300984654	0.300984654	0.028933742	0.094472886	0.027540715	-5.058061219	1040.254863	-4.025486286
0.4A	0.400080483	0.400080483	0.038295611	0.094552521	0.036934445	-3.685356307	1044.716292	-4.471629185
0.5A	0.500424758	0.500424758	0.047783415	0.094388242	0.04634004	-3.114747509	1047.277094	-4.727709414
0.6A	0.601104673	0.601104673	0.057286415	0.094929685	0.056168503	-1.990282127	1049.297068	-4.929706807
0.7A	0.700197995	0.700197995	0.066693313	0.095622183	0.066060287	-0.95825397	1049.877365	-4.987736492
0.8A	0.801441457	0.801441457	0.076374434	0.095544859	0.075679438	-0.91834194	1049.358297	-4.935829724
0.9A	0.89905308	0.89905308	0.085700723	0.096364407	0.085742543	0.048774446	1049.061261	-4.906126083
1A	1.00053393	1.00053393	0.095479864	0.097576604	0.096734529	1.297018757	1047.900451	-4.790045135
2A	2.00120464	2.00120464	0.193121914	0.09868365	0.196592005	1.765123238	1036.239026	-3.623902568
3A	2.99995747	2.99995747	0.291682489	0.099833223	0.298601248	2.317056403	1028.501053	-2.850105273
4A	4.00082476	0.040008248	0.391602296	0.099453667	0.39700252	1.360249306	1021.655082	-2.165508243
5A	5.00886395	0.05008864	0.49185549	0.098763153	0.493797025	0.393184773	1018.360891	-1.836089092
7A	7.00456972	0.035022849	0.688957685	0.099610855	0.696837006	1.130726515	1016.690847	-1.669084655
9A	9.0100027	0.045050014	0.888720579	0.100603376	0.905542519	1.857664328	1013.817269	-1.381726866
11A	11.00442275	0.022008846	1.08936597	0.100226844	1.102044389	1.150445374	1010.167662	-1.016766202
13A	13.012653	0.026025306	1.29064455	0.099817173	1.297992066	0.566067837	1008.229028	-0.822902789
15A	15.0102822	0.030020564	1.49004225	0.099993677	1.500039142	0.666442065	1007.372925	-0.737292516
18A	18.0201047	0.036040209	1.79100547	0.099638565	1.794603191	0.200474468	1006.144593	-0.614459318
21A	21.0101543	0.042020309	2.08892972	0.100816421	2.117274377	1.338733308	1005.785599	-0.578559914
24A	24.005008	0.048010016	2.39086015	0.09959839	2.389965976	-0.037413657	1004.032294	-0.403229357

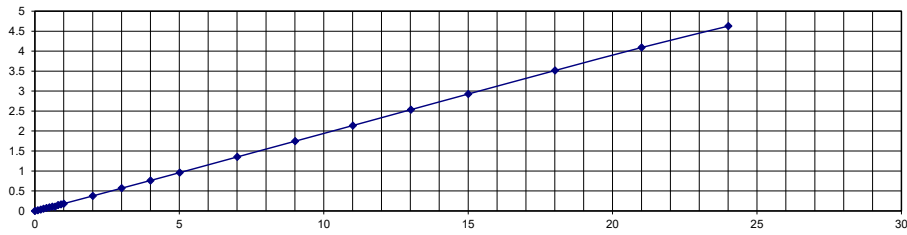
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
TURNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.000886561	0.000886561	0.000151492	0.17807864	-0.000728684	120.7898496	1170.437914	-17.04379143
0.1A	0.100052447	0.100052447	0.017810818	0.179693286	0.017092192	-4.204415442	1123.501967	-12.35019673
0.2A	0.200247071	0.200247071	0.03581512	0.178797605	0.034917135	-2.571757949	1118.226457	-11.82264574
0.3A	0.299944468	0.299944468	0.053640775	0.178021522	0.052510009	-2.153429269	1118.345014	-11.83450139
0.4A	0.400296063	0.400296063	0.071505519	0.18214029	0.072023479	0.71915504	1119.622845	-11.96228448
0.5A	0.499931576	0.499931576	0.08965316	0.183100751	0.090651286	1.101060361	1115.257008	-11.5257008
0.6A	0.600847693	0.600847693	0.108130977	0.01337326	0.007148731	-1412.589851	1111.333144	-11.13331437
0.7A	0.701075613	0.701075613	0.109471351	0.358361366	0.250351853	56.27300151	1280.838515	-28.08385145
0.8A	0.801212808	0.801212808	0.145356653	0.188045087	0.149777571	2.951655481	1102.409544	-10.24095443
0.9A	0.900136791	0.900136791	0.163958822	0.18918668	0.16940733	3.216217303	1098.003487	-9.800348651
1A	1.00016757	1.00016757	0.182883313	0.192007427	0.19115304	4.3262336	1093.776741	-9.377674058
2A	2.0011492	2.0011492	0.37507922	0.193623489	0.386582928	2.975741372	1067.054155	-6.705415459
3A	3.00109003	3.00109003	0.568691252	0.193193349	0.578904073	1.764164655	1055.437382	-5.543738169
4A	3.99950339	0.039995034	0.761578073	0.194657051	0.777644973	2.06609703	1050.319995	-5.031999523
5A	5.00943249	0.050094325	0.958167893	0.197111911	0.986532251	2.875157718	1045.627291	-4.562729071
7A	7.0060107	0.035030054	1.35171724	0.196494616	1.375756819	1.747371238	1036.608914	-3.660891386
9A	9.00625874	0.045031294	1.74475521	0.196321248	1.767233395	1.271942068	1032.380782	-3.238078194
11A	11.00382535	0.022007651	2.13691998	0.197774251	2.175386753	1.768272851	1029.877155	-2.987715525
13A	13.0142136	0.026028427	2.53452301	0.197127718	2.564575669	1.171837476	1026.955648	-2.695564796
15A	15.00051935	0.030001039	2.92607893	0.19567845	2.934391819	0.283291702	1025.29834	-2.529834012
18A	18.0052933	0.036010587	3.51404844	0.192115894	3.458218267	-1.614420171	1024.760677	-2.476067746
21A	21.00042565	0.042000851	4.08946127	0.178628887	3.750396107	-9.040782727	1027.050962	-2.705096165
24A	24.00759945	0.048015199	4.62662938	0.192715202	4.625742819	-0.019165817	1037.800847	-3.780084715

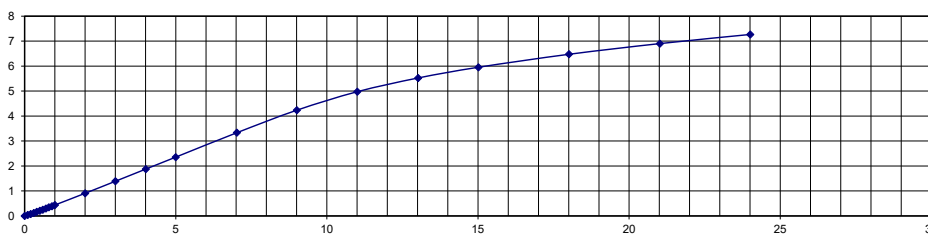
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
TURNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.000807534	0.000807534	0.000136307	0.373852436	-0.000505635	126.9574927	2962.196146	-196.2196146
0.1A	0.100245673	0.100245673	0.037311497	0.396305907	0.038920418	4.133874449	1343.361709	-34.33617087
0.2A	0.199937911	0.199937911	0.07682012	0.417469948	0.082660535	7.065542612	1301.338186	-30.13381863
0.3A	0.300287604	0.300287604	0.118713101	0.433257136	0.129294213	8.183747736	1264.761856	-26.47618564
0.4A	0.400739916	0.400739916	0.162234782	0.443380365	0.176872676	8.27595	1235.061653	-23.50616528
0.5A	0.501190449	0.501190449	0.206772576	0.451523889	0.225491927	8.301561307	1211.936463	-21.19364635
0.6A	0.600438932	0.600438932	0.251585637	0.457791115	0.274068074	8.203231036	1193.309243	-19.33092428
0.7A	0.700465657	0.700465657	0.297376983	0.460277606	0.321601121	7.532355099	1177.740204	-17.77402036
0.8A	0.800481242	0.800481242	0.343411917	0.463218257	0.369989992	7.18345778	1165.482621	-16.54826207
0.9A	0.900740915	0.900740915	0.389854028	0.466304479	0.419211989	7.003130132	1155.228432	-15.52284321
1A	1.0009008	1.0009008	0.436559031	0.470201664	0.469817688	7.07905594	1146.352187	-14.63521871
2A	2.00051938	2.00051938	0.906581351	0.481151851	0.961746069	5.73589219	1103.331421	-10.33314207
3A	2.99944458	2.99944458	1.38721606	0.484546232	1.452562035	4.498670145	1081.102168	-8.110216804
4A	4.00761034	0.040076103	1.87571898	0.483189814	1.935628961	3.095116997	1068.28645	-6.828644982
5A	4.99732872	0.049973287	2.35394082	0.483470362	2.41525279	2.538532196	1061.481384	-6.148138423
7A	7.01990776	0.035099539	3.33179784	0.454746238	3.191469113	-4.396994679	1053.471444	-5.347144351
9A	9.00415032	0.045020752	4.23412468	0.37049295	3.335166678	-26.95391533	1063.283559	-6.328355924
11A	11.002424	0.022004848	4.97447099	0.273357395	3.006786427	-65.44144755	1105.888849	-10.58888495
13A	13.015184	0.026030368	5.52467382	0.215216806	2.800278799	-97.29013492	1177.914247	-17.79142465
15A	15.01095365	0.030021907	5.95419699	0.173405643	2.60217654	-128.8160276	1260.535524	-26.05355244
18A	18.00748975	0.03601498	6.47381326	0.142508605	2.565414713	-152.3495802	1390.794654	-39.07946543
21A	21.0147318	0.042029464	6.90237113	0.122316084	2.569632159	-168.6131984	1522.283532	-52.22835316
24A	24.006375	0.04801275	7.26829721	0.302765295	7.267489676	-0.011111595	1651.444231	-65.14442315

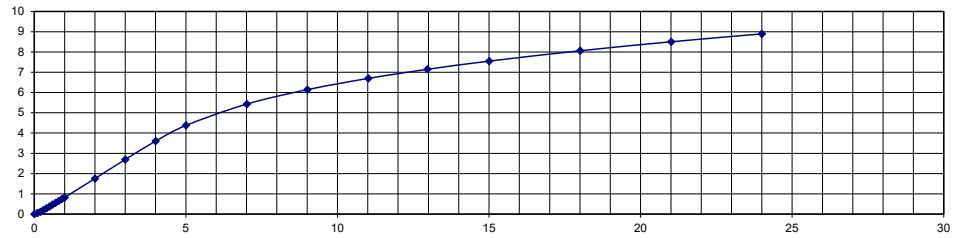
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-1000-A
Lot #:	31668
TURNS/RATIO:	1000
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	20
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	0.000792159	0.000792159	0.000570032	0.553464648	-0.000353727	261.1503137	1389.674207	-38.96742073
0.1A	0.100076309	0.100076309	0.055520299	0.559193384	0.055169851	-0.635217718	1802.517462	-80.25174623
0.2A	0.200577029	0.200577029	0.111719637	0.915969192	0.18293022	38.92773046	1795.360551	-79.53605506
0.3A	0.300397633	0.300397633	0.203152235	0.841397027	0.251961516	19.37172063	1478.682393	-47.8682393
0.4A	0.401029271	0.401029271	0.287823396	0.870909347	0.348467981	17.40320158	1393.31714	-39.33171402
0.5A	0.500171964	0.500171964	0.374167694	0.894898696	0.446811079	16.25818801	1336.758817	-33.6758817
0.6A	0.60091982	0.60091982	0.464326819	0.898162252	0.538931339	13.84304731	1294.174266	-29.41742656
0.7A	0.701918135	0.701918135	0.555039693	0.898531749	0.629903571	11.88497431	1264.626916	-26.46269156
0.8A	0.800074198	0.800074198	0.643236032	0.895941558	0.716027564	10.16602378	1243.826773	-24.38267731
0.9A	0.900497891	0.900497891	0.733209792	0.904884517	0.81405444	9.931110749	1228.158572	-22.81585718
1A	1.00015112	1.00015112	0.823384456	0.929529529	0.92887784	11.35707834	1214.683023	-21.46830229
2A	2.00127719	2.00127719	1.7539607	0.941214451	1.882838853	6.844884954	1141.004579	-14.1004579
3A	3.00049505	3.00049505	2.69443899	0.904425615	2.712932422	6.681676822	1113.588046	-11.3588046
4A	4.00585522	0.040058552	3.60371248	0.774114818	3.100199725	-16.24130055	1111.591239	-11.15912388
5A	5.00311674	0.050031167	4.3757074	0.525332598	2.627508156	-66.53449352	1143.384665	-14.33846651
7A	7.0084081	0.035042041	5.42915232	0.356428569	2.49720471	-117.4091815	1290.884412	-29.0884412
9A	9.00925108	0.045046255	6.14230992	0.276251086	2.488023236	-146.8751027	1466.752913	-46.6752913
11A	11.0147902	0.02202958	6.69634228	0.229697046	2.529272613	-164.7536784	1644.896533	-64.4896533
13A	12.9684606	0.025936921	7.1450946	0.198626355	2.575085896	-177.4701462	1815.015941	-81.5015941
15A	15.0033673	0.030006735	7.5492807	0.170132623	2.551770077	-195.8448634	1987.390309	-98.73903086
18A	18.0079231	0.036015846	8.06045366	0.147963364	2.663720715	-202.6013056	2234.107888	-123.4107888
21A	21.01061795	0.042021236	8.50474249	0.130450147	2.740046036	-210.3868467	2470.459038	-147.0459038
24A	23.99619305	0.047992386	8.8942112	0.370650927	8.893419041	-0.008907252	2697.95629	-169.795629