

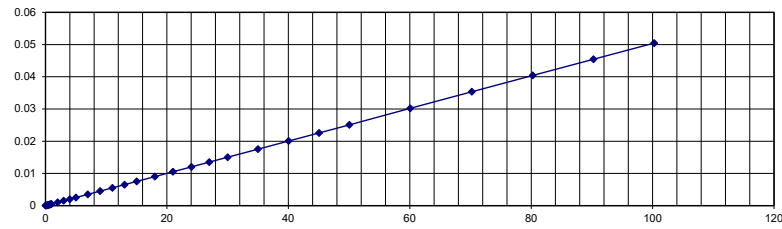
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	1
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000828148	0.000828148	2.25718E-05	0.000356225	-0.000827853	102.7265461	36.68950752	98.16552462
0.1A	0.099591066	0.099591066	5.77536E-05	0.000580048	-0.00077038	107.4967671	1724.412968	13.7793516
0.2A	0.201130175	0.201130175	0.000116651	0.000502514	-0.000727077	116.0438594	1724.201331	13.78993345
0.3A	0.302402119	0.302402119	0.000167542	0.000488803	-0.000680333	124.6264554	1804.93523	9.753238493
0.4A	0.401555013	0.401555013	0.000216008	0.000513233	-0.000622057	134.7248286	1858.981481	7.050925957
0.5A	0.500736001	0.500736001	0.000266911	0.00048019	-0.000587699	145.4162588	1876.040955	6.19795227
0.6A	0.60192938	0.60192938	0.000315503	0.000515981	-0.000517564	160.9592902	1907.839894	4.60800528
0.7A	0.701436913	0.701436913	0.000366847	0.000454517	-0.000509333	172.0250277	1912.068856	4.396557188
0.8A	0.800499687	0.800499687	0.000411873	0.000505059	-0.000423848	197.1746217	1943.560404	2.821979793
0.9A	0.900127049	0.900127049	0.000462191	0.000523792	-0.000356668	229.5855013	1947.523828	2.623808581
1A	1.00284855	1.00284855	0.000515995	0.000501938	-0.00032478	258.8751569	1943.522923	2.823853839
2A	2.00190928	2.00190928	0.001017461	0.00049646	0.00016572	-513.9656537	1967.552933	1.622353342
3A	3.00525763	3.00525763	0.001515584	0.0005061	0.000692815	-118.7574778	1982.904638	0.854768124
4A	4.01035968	0.040103597	0.002024266	0.000503893	0.001192644	-69.72935186	1981.14248	0.94287601
5A	5.02107753	0.050210775	0.00253356	0.000498246	0.001673584	-51.38522643	1981.82728	0.908636016
7A	6.97852182	0.034892609	0.003508849	0.000501709	0.002673038	-31.26818578	1988.835283	0.558235833
9A	8.99717144	0.044985857	0.004521623	0.000495058	0.003625973	-24.70094793	1989.810238	0.509488092
11A	11.0198329	0.022039666	0.005522957	0.000499215	0.00467312	-18.18564084	1995.277545	0.23612277
13A	13.02646235	0.026052925	0.006524697	0.00050455	0.005744349	-13.58462059	1996.485294	0.175735277
15A	15.03960115	0.030079202	0.007540426	0.00049712	0.006648341	-13.41815012	1994.529411	0.273529445
18A	18.0159965	0.036031993	0.009020052	0.000502664	0.00822785	-9.628294662	1997.327332	0.133633375
21A	21.01165855	0.042023317	0.010525864	0.000499025	0.009657187	-8.995141318	1996.193163	0.19034185
24A	24.05683285	0.048113666	0.012045481	0.000504725	0.01131393	-6.465931662	1997.166593	0.141670346
27A	26.9875655	0.026987566	0.013524695	0.000501983	0.012719165	-6.333198334	1995.428843	0.228557843
30A	30.0081724	0.030008172	0.015040989	0.000499668	0.01416598	-6.176832781	1995.092996	0.245350218
35A	35.0007317	0.035000732	0.017535612	0.000501306	0.016717917	-4.891131243	1995.980026	0.200998685
40A	40.0426068	0.040042607	0.020063133	0.000501446	0.019251037	-4.218449081	1995.830232	0.208488378
45A	45.0778634	0.045077863	0.02258804	0.000500533	0.021734815	-3.925612129	1995.651876	0.217406207
50A	50.0676295	0.05006763	0.025085583	0.000513033	0.024858223	-0.914626783	1995.872701	0.20636495
60A	60.0813406	0.03004067	0.030222952	0.000505866	0.029564989	-2.225478901	1987.937551	0.603122428
70A	70.2334584	0.035116729	0.035358568	0.00050484	0.034628501	-2.108282117	1986.320786	0.683960676
80A	80.255074	0.040127537	0.040417879	0.00050263	0.03951043	-2.29673151	1985.632997	0.718350166
90A	90.275075	0.045137538	0.045454228	0.000502414	0.044527271	-2.08177443	1986.065508	0.696724621
100A	100.2682546	0.050134127	0.050474937	0.000503399	0.049646789	-1.668079261	1986.495888	0.675205599

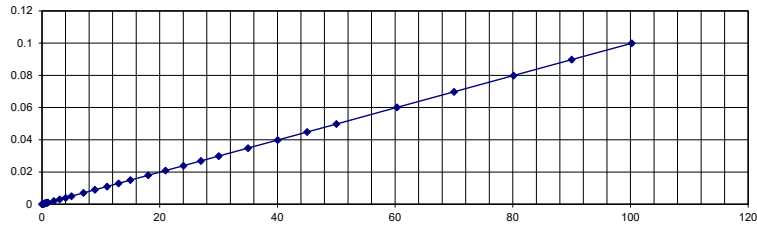
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	2
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000870792	0.000870792	2.42303E-05	0.000861666	-0.000870042	102.7849542	71.8764005	96.40617998
0.1A	0.100254557	0.100254557	0.000109866	0.000992013	-0.000771338	114.2435365	1825.036107	8.748194639
0.2A	0.200138829	0.200138829	0.000208952	0.001013141	-0.000668023	131.2792032	1915.640853	4.217957348
0.3A	0.300709149	0.300709149	0.000310844	0.000988096	-0.000573663	154.1859054	1934.790031	3.260498458
0.4A	0.399601314	0.399601314	0.000408559	0.000938513	-0.000495761	182.4105222	1956.149016	2.192549219
0.5A	0.499835105	0.499835105	0.00050263	0.001056529	-0.000342702	246.6668737	1988.879297	0.556035162
0.6A	0.600695361	0.600695361	0.000609192	0.001013055	-0.000262254	332.29035	1972.106218	1.394689082
0.7A	0.702474232	0.702474232	0.000712299	0.000962516	-0.000194649	465.9397989	1972.413055	1.379347252
0.8A	0.800847502	0.800847502	0.000806985	0.001046517	-3.26918E-05	2568.460367	1984.788669	0.760566525
0.9A	0.901304328	0.901304328	0.000912115	0.000989995	2.14951E-05	-4143.359519	1976.295607	1.185219656
1A	1.00262909	1.00262909	0.001012426	0.000995976	0.000127802	-692.1828053	1980.646782	0.967660904
2A	2.00225763	2.00225763	0.002008032	0.000990219	0.001111881	-80.59772718	1994.249184	0.287540802
3A	3.00245982	3.00245982	0.00299845	0.000989467	0.002100041	-42.78053794	2002.674321	-0.133716068
4A	4.00244485	0.040024449	0.003987902	0.001007069	0.003159947	-26.20156074	2007.293434	-0.36467169
5A	5.01244115	0.050124412	0.005005038	0.000992542	0.004104268	-21.94715678	2002.958191	-0.14790956
7A	7.02911494	0.035145575	0.007006672	0.000991678	0.006099823	-14.86680997	2006.406062	-0.320303118
9A	9.00275148	0.045013757	0.008963883	0.000992593	0.008065276	-11.14167751	2008.672168	-0.433608388
11A	11.04527065	0.022090541	0.010991274	0.000996591	0.010136826	-8.429146149	2009.82544	-0.491272003
13A	13.0173234	0.026034647	0.012956604	0.000999355	0.012138133	-6.742966911	2009.37278	-0.468639015
15A	15.0134777	0.030026955	0.01495147	0.000992277	0.014026739	-6.59262814	2008.294502	-0.414725102
18A	18.05211855	0.036104237	0.017966644	0.000992002	0.017036946	-5.456956196	2009.514782	-0.475739092
21A	20.97677175	0.041953544	0.020867906	0.000995133	0.020003879	-4.319297508	2010.433797	-0.521689862
24A	24.04837635	0.048096753	0.02392456	0.001000442	0.023188205	-3.175556815	2010.350556	-0.517527802
27A	27.0044054	0.027004405	0.026881895	0.000995171	0.026003206	-3.379153658	2009.114737	-0.45573685
30A	30.0367093	0.030036709	0.029899555	0.000995519	0.029031315	-2.99070225	2009.174317	-0.458715853
35A	35.0119441	0.035011944	0.034852495	0.000991356	0.033838516	-2.996522042	2009.14995	-0.457497522
40A	40.0400743	0.040040074	0.039837163	0.000994698	0.038957	-2.259318161	2010.187041	-0.509352035
45A	45.0443393	0.045044339	0.044814897	0.000995408	0.043966717	-1.929139629	2010.239573	-0.511978644
50A	50.0199267	0.050019927	0.049767638	0.001004942	0.049396338	-0.751674473	2010.138681	-0.506934048
60A	60.3101974	0.030155099	0.060108764	0.000997861	0.059310374	-1.346122442	2006.702304	-0.335115193
70A	70.015874	0.035007937	0.069793675	0.000998965	0.069072642	-1.043876577	2006.367299	-0.31836495
80A	80.1522672	0.040076134	0.079919581	0.000999393	0.079232825	-0.866757368	2005.823001	-0.291150049
90A	89.997851	0.044998926	0.089759189	0.000993241	0.08851873	-1.401351622	2005.317827	-0.265891328
100A	100.2056404	0.05010282	0.09989798	0.00099693	0.099027188	-0.8793464	2006.159486	-0.307974294

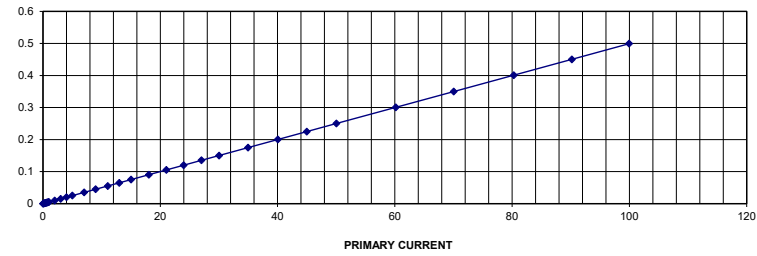
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	10
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000868543	0.000868543	2.26237E-05	0.004870292	-0.000864313	102.6175299	383.9093176	80.80453412
0.1A	0.099594713	0.099594713	0.000503449	0.00500972	-0.000369602	236.2139356	1978.248421	1.08757895
0.2A	0.200865109	0.200865109	0.001010785	0.005016396	0.000139076	-626.7884766	1987.218364	0.639081817
0.3A	0.300261988	0.300261988	0.001509399	0.005002455	0.000633504	-138.2621124	1989.281273	0.535936361
0.4A	0.399374707	0.399374707	0.002005206	0.005101924	0.001169036	-71.52645384	1991.68892	0.415554011
0.5A	0.50166111	0.50166111	0.002527064	0.005006103	0.001642824	-53.82437099	1985.154185	0.742290743
0.6A	0.601910831	0.601910831	0.003028924	0.004965858	0.00212046	-42.84276388	1987.209977	0.639501155
0.7A	0.699564579	0.699564579	0.003513859	0.00494438	0.00259037	-35.65085183	1990.872772	0.456361395
0.8A	0.801008292	0.801008292	0.004015435	0.005038304	0.00316718	-26.7826655	1994.823176	0.258841193
0.9A	0.901072436	0.901072436	0.004519589	0.005054599	0.003686017	-22.61443404	1993.704542	0.314772896
1A	1.00243408	1.00243408	0.005031931	0.00500607	0.004149712	-21.25976336	1992.145874	0.39270629
2A	1.99538471	1.99538471	0.010002712	0.004995834	0.009100068	-9.919085644	1994.843768	0.257811589
3A	3.00154782	3.00154782	0.015029336	0.004984643	0.014093101	-6.643211808	1997.126047	0.143697633
4A	3.99735045	0.039973505	0.019993057	0.00503865	0.019272706	-3.737670757	1999.369346	0.031532697
5A	5.01432122	0.050143212	0.025117216	0.004978113	0.024093313	-4.249740837	1996.368212	0.181589391
7A	7.01589418	0.035079471	0.035081272	0.005007521	0.034263697	-2.386124906	1999.897313	0.005134363
9A	8.9797516	0.044898758	0.04491533	0.005000854	0.044037887	-1.992473255	1999.262065	0.036896756
11A	11.0364758	0.022072952	0.055200709	0.004981191	0.054106247	-2.022801719	1999.335893	0.033205371
13A	13.00029175	0.026000584	0.06498285	0.005002982	0.06417168	-1.264062486	2000.572722	-0.028636094
15A	15.02884825	0.030057697	0.075131682	0.005023359	0.07462676	-0.676595735	2000.33434	-0.016716982
18A	18.047531	0.036095062	0.090295609	0.005000271	0.089374004	-1.03117841	1998.716343	0.064182855
21A	21.03181555	0.042063631	0.105217841	0.004982383	0.10392001	-1.248875081	1998.883017	0.055849131
24A	23.9968068	0.047993614	0.119990562	0.005043941	0.120169941	0.149271467	1999.891191	0.005440428
27A	27.0185545	0.027018555	0.13523208	0.004992228	0.134014236	-0.908741911	1997.939727	0.103013649
30A	30.0189398	0.03001894	0.150210687	0.004992323	0.148995706	-0.815447167	1998.455662	0.077216876
35A	34.9778293	0.034977829	0.174967066	0.004980119	0.173325213	-0.947267326	1999.109324	0.04453381
40A	40.0446551	0.040044655	0.200200462	0.005002737	0.19946434	-0.369049244	2000.227907	-0.011395328
45A	44.9767967	0.044976797	0.22487467	0.005008589	0.224401737	-0.210752735	2000.082833	-0.00414164
50A	50.0427512	0.050042751	0.250247953	0.004973488	0.248018489	-0.898910485	1999.726695	0.013665247
60A	60.16375	0.030081875	0.300584621	0.004982017	0.298868253	-0.574289309	2001.557824	-0.077891211
70A	70.043201	0.035021601	0.349804209	0.004992609	0.348829744	-0.279352604	2002.354437	-0.117721854
80A	80.2863138	0.040143157	0.400944062	0.004993231	0.400019603	-0.231103354	2002.431796	-0.121589779
90A	90.1727646	0.045086382	0.450309399	0.005003854	0.450342824	0.007422164	2002.462414	-0.123120681
100A	99.9540256	0.049977013	0.499253403	0.00499483	0.49838486	-0.174271601	2002.069991	-0.103499545

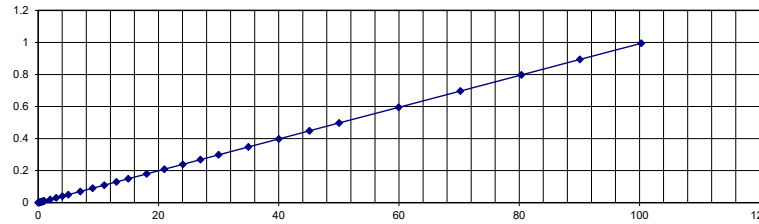
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	20
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000885589	0.000885589	2.59628E-05	0.009905737	-0.000876817	102.9610339	682.1974209	65.89012896
0.1A	0.101493053	0.101493053	0.001022554	0.009975845	0.000126889	-705.861051	1985.08951	0.7455245
0.2A	0.200807673	0.200807673	0.002013301	0.009887118	0.00109982	-83.05738327	1994.810026	0.259498676
0.3A	0.299143976	0.299143976	0.002985564	0.009925872	0.002083675	-43.28354146	2003.936221	-0.196811065
0.4A	0.399375614	0.399375614	0.00398045	0.009955432	0.003090367	-28.8018546	2006.685631	-0.334281532
0.5A	0.498976492	0.498976492	0.00497202	0.009973936	0.00409117	-21.53050989	2007.137932	-0.356896597
0.6A	0.599112405	0.599112405	0.005970769	0.009968786	0.005086834	-17.37692218	2006.81819	-0.340909514
0.7A	0.70182882	0.70182882	0.006994727	0.009961129	0.006105418	-14.56590342	2006.73682	-0.336841019
0.8A	0.801998459	0.801998459	0.00799253	0.009932609	0.007080348	-12.88329086	2006.870123	-0.343506134
0.9A	0.900667846	0.900667846	0.008972574	0.00992101	0.008113975	-10.58173299	2007.601883	-0.380094153
1A	1.00128587	1.00128587	0.00997796	0.00994319	0.009070386	-10.0058963	2006.995212	-0.349760582
2A	2.0017284	2.0017284	0.019910083	0.009945898	0.019007926	-4.746212417	2009.205959	-0.460297937
3A	2.99973204	2.99973204	0.029851597	0.009923672	0.028882767	-3.354354112	2009.763203	-0.488160151
4A	4.01807117	0.040180712	0.03995726	0.009943525	0.039068203	-2.275654212	2011.184536	-0.559226784
5A	5.01397494	0.050139749	0.049860054	0.009923898	0.048872587	-2.020492615	2011.219206	-0.56096028
7A	7.01426432	0.035071322	0.069710722	0.00996812	0.069033436	-0.981098858	2012.391804	-0.619590194
9A	9.04388038	0.045219402	0.089942178	0.009925038	0.088875268	-1.200457431	2011.043224	-0.55216119
11A	10.988952	0.021977904	0.109247088	0.009907096	0.107983009	-1.170627922	2011.761082	-0.588054118
13A	12.9996859	0.025999372	0.129167621	0.010010616	0.129249269	0.063170893	2012.839719	-0.641985966
15A	14.98266585	0.029965332	0.149018471	0.009950321	0.14819674	-0.554486854	2010.84681	-0.542340486
18A	18.0452142	0.036090428	0.179491809	0.0099224	0.178166243	-0.744005019	2010.700577	-0.535028871
21A	20.97367265	0.041947345	0.208549145	0.009910826	0.206980837	-0.757706876	2011.388985	-0.56944923
24A	24.0465235	0.048093047	0.239003636	0.010019233	0.240042144	0.432635834	2012.230768	-0.611538395
27A	26.9842628	0.026984263	0.268437532	0.009938323	0.267292722	-0.428298221	2010.4687	-0.523435002
30A	30.0078872	0.030007887	0.298487287	0.009938655	0.297352463	-0.381642637	2010.66434	-0.53217014
35A	34.9642225	0.034964223	0.347746596	0.009876315	0.344432095	-0.96230898	2010.902358	-0.545117917
40A	40.0054671	0.040005467	0.397535517	0.009962676	0.397675926	0.035307411	2012.673856	-0.633692813
45A	45.1019489	0.045101949	0.448310115	0.009966336	0.448615595	0.068093987	2012.087053	-0.604352637
50A	50.041672	0.050041672	0.497541056	0.009827828	0.490915353	-1.34966308	2011.559504	-0.577975217
60A	59.9540932	0.029977047	0.594958626	0.009910798	0.593307308	-0.27832416	2015.40378	-0.770189018
70A	70.2053032	0.035102652	0.696556296	0.009903102	0.69436471	-0.315624692	2015.782604	-0.789130187
80A	80.3648932	0.040182447	0.797167755	0.009955971	0.799224952	0.257399033	2016.26051	-0.813025484
90A	90.0699164	0.045034958	0.893790684	0.009856688	0.888905458	-0.776320194	2015.458832	-0.772941598
100A	100.277513	0.050138757	0.994403777	0.009916518	0.993518188	-0.089136708	2016.836929	-0.841846461

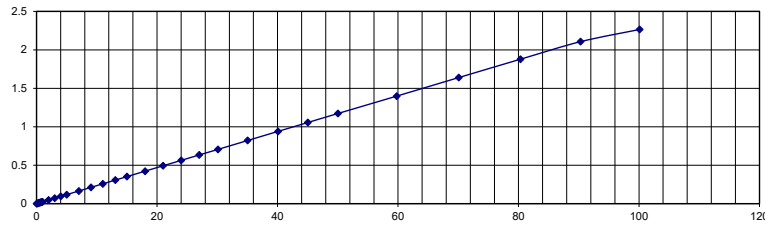
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	47
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000932736	0.000932736	3.5211E-05	0.023407333	-0.000910903	103.8655046	1245.025365	37.74873177
0.1A	0.101151363	0.101151363	0.002381062	0.023505103	0.001444837	-64.79792451	1996.636199	0.168190074
0.2A	0.199377578	0.199377578	0.004689879	0.023443637	0.0037414	-25.35092643	1998.078429	0.096078533
0.3A	0.300366621	0.300366621	0.00705743	0.023525212	0.006133452	-15.06455099	2000.336118	-0.016805885
0.4A	0.400313076	0.400313076	0.009408691	0.023496236	0.008473115	-11.04170612	1999.716476	0.014176191
0.5A	0.501326612	0.501326612	0.011782129	0.023482585	0.010839709	-8.694145315	1999.838125	0.008093766
0.6A	0.601081267	0.601081267	0.014124626	0.023400727	0.013133002	-7.550624555	2000.110952	-0.005547577
0.7A	0.69877175	0.69877175	0.016410655	0.023460414	0.015460738	-6.144055253	2001.277417	-0.063870853
0.8A	0.801156011	0.801156011	0.018812632	0.023525251	0.017914666	-5.012495892	2001.545202	-0.007260103
0.9A	0.899172399	0.899172399	0.021118492	0.023476463	0.020176652	-4.667968542	2001.142096	-0.057104819
1A	1.00109094	1.00109094	0.023511179	0.023478875	0.022571753	-4.161953976	2001.229925	-0.061496237
2A	2.00266757	2.00266757	0.047027071	0.023472646	0.046075171	-2.065972017	2001.514753	-0.075737643
3A	3.00345676	3.00345676	0.070518241	0.023486545	0.069608087	-1.307540512	2001.786572	-0.089328604
4A	4.01254349	0.040125435	0.094218202	0.023484909	0.093301483	-0.982534606	2001.625376	-0.081268814
5A	4.99356211	0.049935621	0.117257335	0.023354076	0.115687295	-1.357141357	2001.558531	-0.077926541
7A	7.00605266	0.035030263	0.164257193	0.023533941	0.163947291	-0.189025584	2004.688312	-0.234415616
9A	9.02380642	0.045119032	0.21174289	0.0233089	0.20940227	-1.117762612	2002.99005	-0.149502479
11A	10.9853941	0.021970788	0.257465342	0.023507309	0.257304316	-0.062581902	2005.37097	-0.268548514
13A	13.0554841	0.026110968	0.306127587	0.023350755	0.30392268	-0.725482903	2004.41835	-0.22091748
15A	15.00807425	0.030016149	0.351722042	0.023556821	0.352609784	0.251763365	2005.502657	-0.275132849
18A	17.9988665	0.035997733	0.4221756	0.023437946	0.420923724	-0.297411512	2003.779293	-0.188964675
21A	20.9945023	0.041989005	0.49238715	0.02327114	0.487633272	-0.974887992	2003.99545	-0.199772486
24A	24.01356055	0.048027121	0.562644078	0.023707444	0.568367404	1.006976408	2005.952591	-0.29762953
27A	26.9973384	0.026997338	0.633381824	0.023157983	0.624271161	-1.459408	2003.333308	-0.166665408
30A	30.0946533	0.030094653	0.705109389	0.023472854	0.70547468	0.051779397	2005.998966	-0.299948289
35A	35.0300007	0.035030001	0.82095608	0.023509459	0.822603615	0.200283007	2005.478823	-0.273941141
40A	40.0747794	0.040074779	0.939556096	0.023341401	0.934468762	-0.544409241	2004.685659	-0.234282967
45A	45.0112069	0.045011207	1.05477923	0.023472271	1.055582502	0.07609755	2005.658307	-0.282915331
50A	50.0174247	0.050017425	1.17228653	0.023173743	1.158158195	-1.219896783	2005.327964	-0.26639822
60A	59.7698006	0.0298849	1.39828558	0.023422039	1.398997869	0.050914222	2009.017806	-0.450890304
70A	70.0739594	0.03503698	1.63962999	0.023281361	1.630484394	-0.560912801	2008.670317	-0.433515851
80A	80.3177644	0.040158882	1.87811971	0.022904597	1.8387133	-2.143151409	2009.954374	-0.497718721
90A	90.2769638	0.045138482	2.10623116	0.0161325	1.455460423	-44.71236227	2014.506945	-0.725347226
100A	100.0957864	0.050047893	2.26463332	0.022624662	2.263700584	-0.041204036	2077.379114	-3.868955721

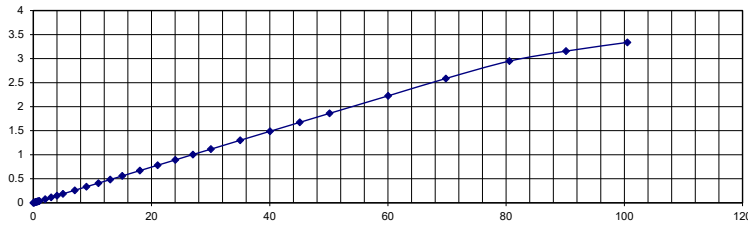
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	75
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000833076	0.000833076	4.02127E-05	0.037197211	-0.000802088	105.0134975	1553.757094	22.31214528
0.1A	0.099005602	0.099005602	0.003691957	0.037188034	0.002848747	-29.59930663	2011.242423	-0.562121146
0.2A	0.20043305	0.20043305	0.007463844	0.03718899	0.006620826	-12.73281929	2014.039718	-0.701985911
0.3A	0.300463027	0.300463027	0.011183858	0.037348262	0.010388696	-7.654113974	2014.933203	-0.746660157
0.4A	0.401534648	0.401534648	0.014958708	0.037210208	0.014108111	-6.029129082	2013.215286	-0.660764307
0.5A	0.499709929	0.499709929	0.01861183	0.037285963	0.01779909	-4.566191143	2013.678637	-0.683931869
0.6A	0.601198282	0.601198282	0.022395921	0.037170255	0.021513617	-4.101143032	2013.307287	-0.665364351
0.7A	0.701247034	0.701247034	0.026114759	0.037158805	0.025224426	-3.529646252	2013.938867	-0.696943353
0.8A	0.799801545	0.799801545	0.029776927	0.037128399	0.028862226	-3.169195901	2014.483116	-0.724155788
0.9A	0.900600195	0.900600195	0.033519413	0.037414008	0.032861987	-2.000567232	2015.101357	-0.755067854
1A	1.00124302	1.00124302	0.037284865	0.037203888	0.036417057	-2.382971274	2014.040483	-0.702024142
2A	1.99963537	1.99963537	0.074428941	0.037215013	0.073583379	-1.149120794	2014.977641	-0.74888204
3A	2.99952729	2.99952729	0.111639932	0.037296643	0.111039221	-0.540989509	2015.090324	-0.754516202
4A	3.99086783	0.39908678	0.148613606	0.037086436	0.147173987	-0.978174771	2014.049018	-0.702450908
5A	5.0176253	0.050176253	0.186692381	0.037017607	0.184907405	-0.965335038	2015.732487	-0.786624361
7A	7.0073168	0.035036584	0.260345999	0.03750261	0.26195959	0.615969387	2018.655028	-0.932751419
9A	8.99258406	0.04496292	0.334798702	0.036844112	0.330490702	-1.303516336	2014.475565	-0.723778269
11A	11.0097011	0.022019402	0.409117589	0.037059224	0.407177903	-0.476373148	2018.313572	-0.915678609
13A	12.9982582	0.025996516	0.482811972	0.037137122	0.481884828	-0.192399532	2019.149113	-0.957455649
15A	15.03141315	0.030062826	0.558317496	0.037205825	0.558423056	0.018903201	2019.202325	-0.960116271
18A	18.03188485	0.03606377	0.669952522	0.037200844	0.66996826	0.002349006	2018.637619	-0.931880942
21A	21.03563995	0.04207128	0.781694747	0.03697135	0.776882926	-0.619375244	2018.272481	-0.91362404
24A	24.01086535	0.048021731	0.891692846	0.037652046	0.903225137	1.276790291	2019.546203	-0.977310143
27A	26.9948722	0.026994872	1.00404681	0.036738132	0.990908092	-1.325927029	2016.455204	-0.822760196
30A	30.051391	0.030051391	1.1163376	0.0372069	1.117286014	0.084885492	2018.971971	-0.948598569
35A	35.0056162	0.035005616	1.30066896	0.037111373	1.298273414	-0.184517802	2018.516083	-0.925804172
40A	40.0435583	0.040043558	1.48763391	0.036929034	1.477936834	-0.656122509	2018.821198	-0.941059904
45A	45.0711112	0.045071112	1.67329658	0.037136084	1.672931506	-0.021822413	2020.163897	-1.008194853
50A	50.1194224	0.050119422	1.86077109	0.036751394	1.841125555	-1.067039374	2020.106987	-1.005349347
60A	60.0269952	0.030013498	2.2248882	0.036989338	2.21952571	-0.241605207	2023.483535	-1.174176752
70A	69.8102872	0.034905144	2.58676569	0.033635444	2.347266932	-10.20330301	2024.060996	-1.203049821
80A	80.560695	0.040280348	2.94836043	0.021693233	1.746788877	-68.78745154	2049.292232	-2.464611577
90A	90.1307216	0.045065361	3.15596525	0.017449554	1.571907842	-100.7729185	2141.913356	-7.095667799
100A	100.5300262	0.050265013	3.33742848	0.033198325	3.33695404	-0.024967858	2259.150124	-12.95750621

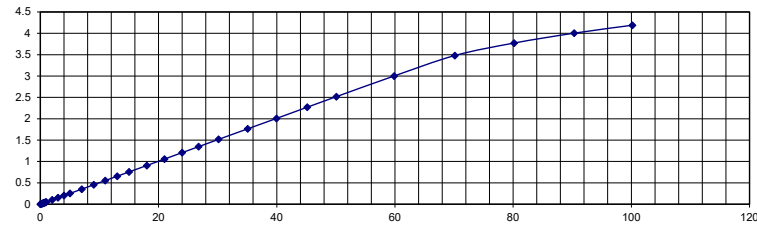
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	100
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000884537	0.000884537	5.196E-05	0.050326716	-0.000840021	106.1855609	1702.341515	14.88292424
0.1A	0.099834573	0.099834573	0.00503179	0.050463487	0.004153464	-21.14683764	1984.076537	0.796173167
0.2A	0.200772568	0.200772568	0.010125474	0.050467539	0.009247961	-9.488715661	1982.846195	0.857690252
0.3A	0.300229793	0.300229793	0.015144835	0.050352158	0.014232681	-6.408867272	1982.39065	0.880467499
0.4A	0.401838801	0.401838801	0.020261068	0.050625754	0.019458856	-4.122606402	1983.305149	0.83474253
0.5A	0.501830477	0.501830477	0.025323222	0.050427722	0.024421631	-3.691770152	1981.700753	0.914962369
0.6A	0.599732117	0.599732117	0.030260179	0.050301381	0.029282817	-3.337661063	1981.918636	0.904068196
0.7A	0.699935763	0.699935763	0.03530056	0.050303479	0.034324667	-2.843124666	1982.789386	0.860530675
0.8A	0.802337828	0.802337828	0.04045174	0.050592806	0.039707985	-1.873061901	1983.444519	0.827774026
0.9A	0.900394414	0.900394414	0.045412698	0.05035662	0.044456282	-2.151362298	1982.693057	0.865347173
1A	0.998802896	0.998802896	0.050368217	0.05043978	0.049494862	-1.764536645	1983.002301	0.849884963
2A	2.00157054	2.00157054	0.100947596	0.050363228	0.099921017	-1.027390105	1982.781779	0.860911041
3A	3.0004196	3.0004196	0.15123384	0.050492477	0.150595014	-0.424201315	1983.710762	0.814461896
4A	3.99186638	0.039918664	0.201313512	0.049922004	0.198397433	-1.469816872	1982.910308	0.854484621
5A	5.01043216	0.050104322	0.252162357	0.050310648	0.251193554	-0.385679757	1986.986567	0.650671662
7A	7.00255878	0.035012794	0.352387539	0.050455389	0.352432293	0.012698554	1987.175483	0.641225852
9A	9.03628244	0.045181412	0.454999858	0.05047887	0.455256791	0.056436967	1985.99676	0.700161977
11A	10.9896743	0.021979349	0.553604872	0.050352271	0.552470526	-0.205322499	1985.111558	0.744422097
13A	13.01704475	0.02603409	0.655687579	0.050202994	0.652610079	-0.471567934	1985.251081	0.737445951
15A	15.003828	0.030007656	0.755430046	0.050036539	0.749855088	-0.743471328	1986.130692	0.693465401
18A	18.0160336	0.036032067	0.906150389	0.050430428	0.907671744	0.167610723	1988.194655	0.590267252
21A	21.00973815	0.042019476	1.05712419	0.050451349	1.059085096	0.185150927	1987.442757	0.627862134
24A	23.98951635	0.047979033	1.20745802	0.050029894	1.199308432	-0.679523945	1986.778501	0.66107495
27A	26.7846094	0.026784609	1.34729623	0.050484405	1.351320544	0.297805997	1988.026746	0.598662701
30A	30.1606141	0.030160614	1.51773182	0.050183969	1.5126948	-0.332983201	1987.216299	0.639185057
35A	35.0783596	0.03507836	1.76452381	0.049878355	1.748766328	-0.901062742	1987.978819	0.601059047
40A	39.9620281	0.039962028	2.00811316	0.050501338	2.017251366	0.453002864	1990.028694	0.49856528
45A	45.157192	0.045157192	2.27047589	0.050062433	2.259794347	-0.472677671	1988.886656	0.555667209
50A	50.1042027	0.050104203	2.51813528	0.049517201	2.480135342	-1.532171969	1989.734352	0.513282392
60A	59.8529706	0.029926485	3.00086698	0.046634217	2.790311857	-7.545935131	1994.522616	0.273869187
70A	70.14114	0.03507057	3.4806477	0.029132301	2.042488264	-70.41212725	2015.174934	-0.758746713
80A	80.1580326	0.040079016	3.77246283	0.022741695	1.822044988	-107.045537	2124.819679	-6.240983957
90A	90.3164122	0.045158206	4.0034816	0.018855606	1.702086183	-135.2102755	2255.946729	-12.79733645
100A	100.1869322	0.050093466	4.18959624	0.041817791	4.188711703	-0.021117151	2391.326669	-19.56633344

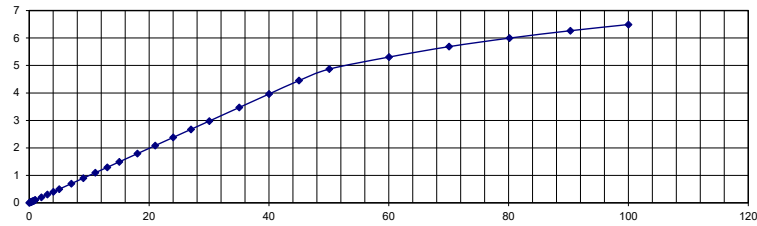
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	200
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60



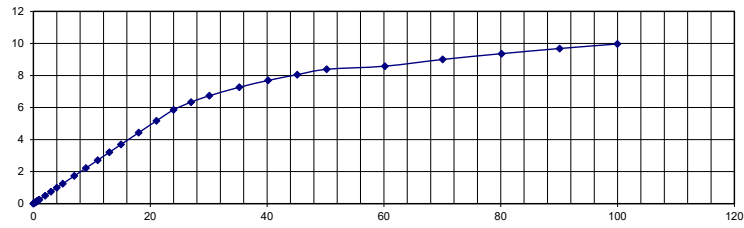
Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000891902	0.000891902	8.76934E-05	0.099504638	-0.000803153	110.9186298	2034.137823	-1.706891154
0.1A	0.100690788	0.100690788	0.010018145	0.09981292	0.00915834	-9.388227011	2010.168229	-0.508411467
0.2A	0.200115385	0.200115385	0.019942005	0.099439778	0.019007528	-4.916352315	2006.973602	-0.34868009
0.3A	0.300816049	0.300816049	0.029955656	0.099393031	0.029007117	-3.270022578	2008.408996	-0.420449809
0.4A	0.399680448	0.399680448	0.039782089	0.09920817	0.039044495	-1.889110172	2009.348735	-0.467436744
0.5A	0.499557022	0.499557022	0.049761838	0.099348751	0.048738465	-2.099723528	2007.791698	-0.389584889
0.6A	0.60089852	0.60089852	0.059829989	0.099521285	0.058910291	-1.561184084	2008.686717	-0.434335865
0.7A	0.702116499	0.702116499	0.069903332	0.099588332	0.069030709	-1.264108161	2008.821259	-0.441062951
0.8A	0.800433173	0.800433173	0.079694526	0.09978432	0.079134152	-0.708131336	2008.753211	-0.43766055
0.9A	0.899405902	0.899405902	0.089589664	0.09954821	0.088642346	-1.068697282	2007.834076	-0.391703779
1A	1.00076516	1.00076516	0.099679797	0.099492711	0.098676937	-1.016305697	2007.959872	-0.397993588
2A	2.00219484	2.00219484	0.199314751	0.099379301	0.198084821	-0.620910681	2009.078435	-0.453921747
3A	3.00213955	3.00213955	0.298688557	0.098922582	0.296087493	-0.878478064	2010.21397	-0.510698507
4A	4.0191179	0.040191179	0.399290681	0.100400104	0.402627955	0.828872933	2013.128826	-0.656441316
5A	4.9875625	0.049875625	0.49652262	0.098938149	0.492568299	-0.802796528	2008.997093	-0.449854631
7A	7.01794486	0.035089724	0.697404892	0.099807614	0.699552429	0.306987291	2012.588366	-0.629418298
9A	9.01280302	0.045064015	0.896506925	0.098737617	0.889010793	-0.843199238	2010.648835	-0.532441732
11A	11.01221875	0.022024438	1.09392447	0.098598155	1.084892546	-0.83251786	2013.341698	-0.667084904
13A	13.01594195	0.026031884	1.29148788	0.099251212	1.290956116	-0.041191449	2015.650654	-0.782532702
15A	14.9985	0.029997	1.48825917	0.099041814	1.484586747	-0.247370021	2015.57636	-0.77881798
18A	18.0370754	0.036074151	1.78920519	0.098783281	1.780869592	-0.46806334	2016.210941	-0.810547056
21A	21.0186768	0.042037354	2.08373756	0.099058806	2.081193117	-0.122258877	2017.401539	-0.87007694
24A	24.0191408	0.048038282	2.38095994	0.098922579	2.375143456	-0.244889779	2017.601422	-0.880071086
27A	26.9690189	0.026969019	2.67276949	0.098832172	2.6645148	-0.309800859	2018.057973	-0.902898663
30A	30.037586	0.030037586	2.97604264	0.098808328	2.96707176	-0.302347924	2018.62605	-0.931302517
35A	35.0291206	0.035029121	3.46924783	0.098643287	3.454495683	-0.427041977	2019.407221	-0.97036106
40A	39.9926231	0.039992623	3.95886403	0.097724372	3.907362057	-1.318075267	2020.409026	-1.020451314
45A	45.0052384	0.045005238	4.44871871	0.082770129	3.724197498	-19.45442506	2023.28991	-1.164495518
50A	50.0673971	0.050067397	4.86771424	0.044032646	2.203708082	-120.8874342	2057.121459	-2.856072956
60A	60.0253998	0.0300127	5.30619145	0.037855402	2.271393733	-133.6094959	2262.466417	-13.12332087
70A	70.0491708	0.035024585	5.68564533	0.030826556	2.15848279	-163.4093428	2464.071068	-23.2035534
80A	80.1268658	0.040063433	5.99630596	0.02646854	2.119949215	-182.8513965	2672.540939	-33.62704694
90A	90.3116408	0.04515582	6.26588208	0.023222836	2.096400536	-198.8876397	2882.647316	-44.1323658
100A	99.977722	0.049988861	6.4903559	0.064918021	6.489463998	-0.013743844	3080.808619	-54.04043097



**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>TURNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb



**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	500
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60

Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000903342	0.000903342	0.000212013	0.247442764	-0.000679817	131.1868431	2130.389697	-6.519484828
0.1A	0.100374977	0.100374977	0.02482555	0.248995683	0.024089594	-3.055078176	2021.606341	-1.08031707
0.2A	0.199843411	0.199843411	0.04959276	0.248409948	0.048739749	-1.750134869	2014.844604	-0.742230212
0.3A	0.298786885	0.298786885	0.074171304	0.247732325	0.073115827	-1.443567134	2014.167683	-0.708384139
0.4A	0.400209474	0.400209474	0.099296957	0.248619091	0.098596373	-0.710557528	2015.215193	-0.760759665
0.5A	0.500416878	0.500416878	0.124210431	0.247392983	0.122896282	-1.069315757	2014.391521	-0.719576039
0.6A	0.599811306	0.599811306	0.148799915	0.24797446	0.147834542	-0.653008934	2015.496131	-0.774806558
0.7A	0.702293223	0.702293223	0.174212813	0.246677416	0.172336535	-1.088729151	2015.618745	-0.780937249
0.8A	0.799298508	0.799298508	0.198141826	0.247769854	0.197138732	-0.508826362	2016.985823	-0.849291154
0.9A	0.901932923	0.901932923	0.22357154	0.24872574	0.223430592	-0.063083648	2017.101378	-0.855068919
1A	0.999443084	0.999443084	0.247824827	0.247698122	0.246656833	-0.473530081	2016.430509	-0.82152544
2A	2.00171973	2.00171973	0.49608687	0.247501703	0.494525699	-0.315690544	2017.509282	-0.87546411
3A	2.99929995	2.99929995	0.742989673	0.24576061	0.736206444	-0.921375984	2018.399487	-0.919974361
4A	4.01678483	0.040167848	0.993047378	0.247717576	0.994124861	0.108385031	2022.453772	-1.122688579
5A	5.02159194	0.02510796	1.24195576	0.247761304	1.243252824	0.104328272	2021.646886	-1.082343303
7A	6.99316366	0.034965818	1.73043494	0.24451236	1.70901161	-1.25355089	2020.637557	-1.031877858
9A	8.99146812	0.044957341	2.21904508	0.245232461	2.204096516	-0.678217319	2025.976895	-1.298844726
11A	11.00106325	0.022002127	2.71186304	0.247040948	2.716809752	0.182077969	2028.322059	-1.41610295
13A	13.01347635	0.026026953	3.20901148	0.244455849	3.180317066	-0.902250097	2027.645652	-1.382282606
15A	14.99408345	0.029988167	3.69318247	0.243083751	3.64391471	-1.352055788	2029.967863	-1.498393132
18A	18.027437	0.036054874	4.43054143	0.243549844	4.389676124	-0.930941244	2034.450787	-1.72253936
21A	21.06291585	0.042125832	5.16983183	0.23354452	4.918225235	-5.115800577	2037.098744	-1.854937175
24A	24.00471735	0.048009435	5.85687345	0.160147267	3.843386532	-52.38835338	2049.277448	-2.463872384
27A	26.9887433	0.026988743	6.33475705	0.127742289	3.4467005	-83.79192072	2130.211395	-6.510569731
30A	30.1354988	0.030135499	6.7367308	0.10358819	3.12077843	-115.8670008	2236.656005	-11.83280027
35A	35.250203	0.035250203	7.26655375	0.085913801	3.02755758	-140.0122989	2425.510373	-21.27551867
40A	40.1862471	0.040186247	7.69062806	0.072731924	2.921919746	-163.2046301	2612.676545	-30.63382726
45A	45.152723	0.045152723	8.05184941	0.066059952	2.98188337	-170.0256319	2803.872794	-40.19363969
50A	50.2040482	0.050204048	8.38553971	0.019609991	0.98359758	-752.5376514	2993.489384	-49.67446919
60A	60.1789356	0.030089468	8.58114716	0.042464444	2.554561719	-235.914654	3506.462159	-75.32310797
70A	70.0576882	0.035028844	9.0006429	0.035789482	2.506425053	-259.1028141	3891.815784	-94.59078918
80A	80.1460758	0.040073038	9.36170107	0.03240006	2.595834313	-260.6432438	4280.529532	-114.0264766
90A	90.0821704	0.045041085	9.68363113	0.02861194	2.576522339	-275.8411477	4651.259904	-132.5629952
100A	99.965764	0.049982882	9.96641992	0.099698332	9.965516578	-0.009064681	5015.129043	-150.7564522

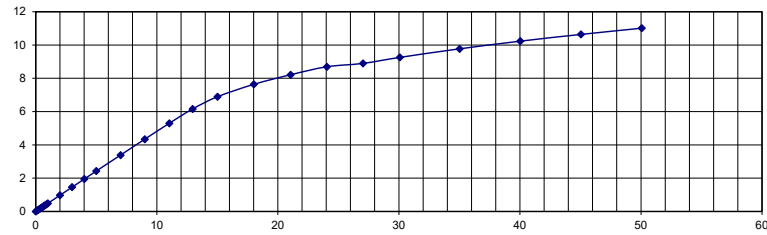
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8349-2000-F
<b>Lot #:</b>	31353
<b>URNS/RATIO:</b>	2000
<b>DATE:</b>	July 8, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	1000
<b>MEASUREMENT CT TURNS RATIO:</b>	2000
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000948903	0.000948903	0.000455625	0.486040317	-0.000487698	193.4236774	2082.638962	-4.131948113
0.1A	0.101614534	0.101614534	0.049383181	0.489793499	0.048821235	-1.151027353	2057.674961	-2.88374804
0.2A	0.200036254	0.200036254	0.097589499	0.484510603	0.095970783	-1.686676243	2049.77232	-2.488616011
0.3A	0.299744534	0.299744534	0.145899218	0.490381257	0.146040198	0.096535089	2054.462924	-2.723146193
0.4A	0.401378139	0.401378139	0.195738433	0.485220816	0.193808125	-0.995989434	2050.584205	-2.529210245
0.5A	0.499362301	0.499362301	0.243282388	0.48900959	0.24324405	-0.015760943	2052.603582	-2.63017909
0.6A	0.598411559	0.598411559	0.291718425	0.485696493	0.289697492	-0.697601062	2051.33275	-2.566637503
0.7A	0.701280772	0.701280772	0.341681641	0.489805621	0.342542361	0.25127397	2052.439136	-2.621956794
0.8A	0.800313045	0.800313045	0.390188205	0.486012694	0.388013395	-0.560498607	2051.09492	-2.554745985
0.9A	0.899128604	0.899128604	0.438213821	0.488493114	0.438269228	0.012642188	2051.803391	-2.59016956
1A	1.00034382	1.00034382	0.487656757	0.486992864	0.486211398	-0.297269616	2051.327713	-2.566385643
2A	2.00405315	2.00405315	0.976456038	0.485270169	0.971558308	-0.504110781	2052.374169	-2.618708473
3A	2.99993343	2.99993343	1.45972703	0.484936297	1.453827705	-0.405778837	2055.133164	-2.756658209
4A	4.01253437	0.040125344	1.95077398	0.48490257	1.944739323	-0.310306728	2056.893526	-2.844676296
5A	4.99358807	0.049935881	2.42648944	0.477788493	2.384930016	-1.742584623	2057.94758	-2.897378981
7A	7.00206212	0.035010311	3.38611523	0.478038955	3.346309556	-1.189539508	2067.874731	-3.393736545
9A	9.00144558	0.045007228	4.34189841	0.470385344	4.23319917	-2.56777995	2073.158957	-3.657947861
11A	11.03873565	0.022077471	5.3002098	0.447489768	4.938772349	-7.318366297	2082.697868	-4.134893396
13A	12.95867155	0.025917343	6.15936147	0.357122561	4.62688507	-33.12112526	2103.898531	-5.194926561
15A	15.0145721	0.030029144	6.89356994	0.248182471	3.725404707	-85.04217617	2178.054655	-8.902732769
18A	18.0132676	0.036026535	7.6377936	0.190077355	3.422965361	-123.1338268	2358.438646	-17.92193232
21A	21.05118145	0.042102363	8.21523223	0.1596052	3.358929117	-144.5789103	2562.457258	-28.12286288
24A	24.04685835	0.048093717	8.69335784	0.068201337	1.639078983	-430.3806548	2766.118546	-38.30592731
27A	27.0374836	0.027037484	8.89732248	0.118237127	3.195885484	-178.3992894	3038.833723	-51.94168617
30A	30.0767375	0.030076738	9.25667513	0.10429673	3.135956466	-195.1786873	3249.194455	-62.45972273
35A	35.014304	0.035014304	9.77164717	0.091905533	3.217059361	-203.7446958	3583.255043	-79.16275215
40A	40.0319054	0.040031905	10.2327925	0.080754595	3.231811393	-216.6271559	3912.119336	-95.6059668
45A	45.0329422	0.045032942	10.6366492	0.074554751	3.356470898	-216.8997892	4233.752693	-111.6876347
50A	50.0615969	0.050061597	11.0115593	0.219960209	11.0106104	-0.008618082	4546.278829	-127.3138415