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ภาคผนวก

ภาคผนวก ก

ตารางที่ ก.1 ค่าความต้านทานที่ใช้ในระดับแรงดันต่างๆ (Ω)

พิกัดกระแสของ R	ระดับแรงดัน (kV)					
	3	6	12	22	24	33
200	8.66	17.32	34.64	63.51	69.28	95.26
300	5.77	11.55	23.09	42.34	46.19	63.51
400	4.33	8.66	17.32	31.75	34.64	47.63
500	3.46	6.93	13.86	25.40	27.71	38.11
600	2.89	5.77	11.55	21.17	23.09	31.75
700	2.47	4.95	9.90	18.15	19.79	27.22
800	2.17	4.33	8.66	15.88	17.32	23.82
900	1.92	3.85	7.70	14.11	15.40	21.17
1000	1.73	3.46	6.93	12.70	13.86	19.05
1100	1.57	3.15	6.30	11.55	12.60	17.32
1200	1.44	2.89	5.77	10.58	11.55	15.88
1300	1.33	2.66	5.33	9.77	10.66	14.66
1400	1.24	2.47	4.95	9.07	9.90	13.61
1500	1.15	2.31	4.62	8.47	9.24	12.70
1600	1.08	2.17	4.33	7.94	8.66	11.91
1700	1.02	2.04	4.08	7.47	8.15	11.21
1800	0.96	1.92	3.85	7.06	7.70	10.58
1900	0.91	1.82	3.65	6.69	7.29	10.03
2000	0.87	1.73	3.46	6.35	6.93	9.53

ตารางที่ ก.2 ค่ากระแสผิดพลาดในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับแรงดัน 22 kV

kmR	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	6877.38	199.71	299.25	398.57	497.49	595.90	693.77	791.31	888.57	984.80	1080.01	1175.67	1269.33	1362.91	1454.57	1546.16	1637.30	1725.74	1813.86	1902.82
1	4862.95	198.92	297.40	395.14	491.92	587.60	682.09	775.58	868.07	958.85	1047.89	1136.55	1222.55	1307.66	1390.21	1471.87	1552.27	1629.49	1705.60	1781.61
2	3752.09	198.12	295.49	391.57	486.09	578.89	669.83	759.08	846.62	931.75	1014.48	1096.06	1174.39	1251.12	1324.78	1396.87	1467.10	1533.83	1598.90	1663.18
3	3051.68	197.29	293.52	387.87	480.05	569.85	657.13	742.04	824.54	904.01	980.48	1055.11	1126.04	1194.80	1260.12	1323.38	1384.37	1441.72	1497.09	1551.23
4	2570.63	196.45	291.49	384.06	473.82	560.55	644.11	724.64	802.14	876.04	946.44	1014.44	1078.41	1139.79	1197.50	1252.85	1305.68	1354.89	1401.95	1447.55
5	2220.14	195.59	289.41	380.15	467.44	551.06	630.87	707.06	779.66	848.19	912.81	974.60	1032.15	1086.82	1137.74	1186.12	1231.88	1274.12	1314.20	1352.71
6	1953.54	194.71	287.28	376.16	460.94	541.42	617.53	689.46	757.31	820.73	879.92	935.98	987.69	1036.36	1081.28	1123.60	1163.29	1199.66	1233.89	1266.56
7	1743.98	193.81	285.12	372.09	454.35	531.71	604.15	671.95	735.27	793.86	848.03	898.85	945.29	988.63	1028.31	1065.39	1099.93	1131.34	1160.72	1188.59
8	1574.96	192.90	282.91	367.96	447.69	521.95	590.83	654.64	713.66	767.74	817.29	863.35	905.09	943.74	978.85	1011.44	1041.58	1068.83	1094.18	1118.09
9	1435.77	191.98	280.67	363.79	440.99	512.21	577.61	637.62	692.58	742.49	787.80	829.57	867.13	901.65	932.80	961.53	987.95	1011.70	1033.69	1054.33
10	1319.15	191.04	278.41	359.57	434.26	502.50	564.56	620.95	672.11	718.16	759.61	797.54	831.39	862.29	890.00	915.42	938.67	959.47	978.65	996.59
11	1220.03	190.10	276.11	355.33	427.54	492.88	551.71	604.67	652.30	694.79	732.75	767.23	797.79	825.52	850.26	872.82	893.37	911.69	928.51	944.18
12	1134.76	189.13	273.80	351.07	420.84	483.35	539.11	588.84	633.17	672.41	707.21	738.59	766.25	791.20	813.35	833.46	851.70	867.90	882.73	896.50
13	1060.62	188.16	271.46	346.81	414.17	473.96	526.78	573.47	614.75	651.01	682.94	711.57	736.65	759.17	779.06	797.05	813.31	827.71	840.85	853.02
14	995.57	187.18	269.11	342.54	407.56	464.70	514.73	558.58	597.04	630.58	659.92	686.08	708.88	729.25	747.18	763.34	777.89	790.74	802.44	813.25
15	938.03	186.19	266.75	338.27	401.00	455.61	502.99	544.18	580.03	611.09	638.10	662.04	682.81	701.30	717.51	732.07	745.15	756.67	767.13	776.79
16	886.78	185.19	264.38	334.02	394.52	446.70	491.57	530.27	563.71	592.50	617.40	639.36	658.34	675.16	689.86	703.03	714.83	725.20	734.60	743.26
17	840.83	184.18	262.00	329.80	388.12	437.96	480.47	516.85	548.08	574.80	597.79	617.97	635.34	650.70	664.07	676.02	686.71	696.07	704.55	712.35
18	799.41	183.17	259.62	325.59	381.81	429.42	469.70	503.91	533.09	557.93	579.19	597.78	613.72	627.77	639.97	650.85	660.56	669.05	676.73	683.79
19	761.88	182.15	257.23	321.42	375.60	421.08	459.25	491.45	518.75	541.85	561.55	578.71	593.37	606.25	617.42	627.35	636.20	643.94	650.92	657.32
20	727.71	181.12	254.85	317.28	369.49	412.94	449.12	479.45	505.01	526.54	544.82	560.68	574.20	586.04	596.29	605.39	613.48	620.54	626.91	632.74

ตารางที่ ก.2 (ต่อ)

km/R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	696.47	180.09	252.48	313.18	363.48	405.00	439.32	467.90	491.85	511.94	528.93	543.63	556.12	567.04	576.46	584.82	592.24	598.71	604.53	609.87
22	667.81	179.05	250.10	309.12	357.58	397.26	429.82	456.78	479.26	498.03	513.84	527.48	539.05	549.13	557.83	565.52	572.35	578.29	583.64	588.53
23	641.41	178.01	247.74	305.11	351.80	389.72	420.64	446.08	467.19	484.75	499.50	512.19	522.91	532.25	540.29	547.39	553.69	559.16	564.08	568.59
24	617.01	176.97	245.39	301.15	346.13	382.38	411.75	435.78	455.64	472.09	485.86	497.68	507.65	516.32	523.76	530.34	536.15	541.21	545.75	549.91
25	594.41	175.92	243.04	297.24	340.58	375.25	403.15	425.87	444.56	459.99	472.88	483.90	493.19	501.25	508.16	514.26	519.65	524.34	528.54	532.38
26	573.40	174.87	240.71	293.38	335.14	368.30	394.84	416.33	433.95	448.44	460.51	470.82	479.48	486.99	493.42	499.09	504.10	508.45	512.35	515.91
27	553.83	173.82	238.40	289.57	329.82	361.55	386.80	407.15	423.77	437.40	448.72	458.37	466.47	473.48	479.48	484.76	489.42	493.46	497.09	500.40
28	535.54	172.77	236.10	285.82	324.61	354.99	379.02	398.32	414.01	426.84	437.48	446.52	454.11	460.66	466.26	471.19	475.54	479.31	482.69	485.77
29	518.43	171.72	233.81	282.13	319.52	348.61	371.50	389.80	404.64	416.74	426.74	435.24	442.35	448.49	453.73	458.34	462.40	465.93	469.08	471.96
30	502.38	170.67	231.55	278.49	314.54	342.41	364.23	381.60	395.64	407.06	416.48	424.47	431.15	436.91	441.83	446.15	449.95	453.25	456.20	458.89
31	487.29	169.62	229.30	274.92	309.68	336.39	357.20	373.70	386.99	397.79	406.68	414.20	420.48	425.90	430.51	434.57	438.13	441.22	443.99	446.51
32	473.08	168.57	227.07	271.40	304.92	330.53	350.39	366.08	378.69	388.90	397.29	404.39	410.31	415.40	419.74	423.55	426.91	429.81	432.41	434.78
33	459.67	167.53	224.87	267.94	300.28	324.84	343.81	358.74	370.70	380.37	388.30	395.01	400.59	405.39	409.48	413.07	416.22	418.96	421.40	423.63
34	447.01	166.48	222.68	264.53	295.74	319.31	337.43	351.65	363.01	372.18	379.69	386.03	391.30	395.84	399.69	403.08	406.05	408.62	410.93	413.03
35	435.02	165.44	220.52	261.19	291.31	313.94	331.26	344.81	355.62	364.32	371.44	377.43	382.42	386.71	390.35	393.55	396.35	398.78	400.95	402.93
36	423.66	164.39	218.38	257.91	286.98	308.72	325.29	338.21	348.49	356.76	363.51	369.20	373.92	377.98	381.42	384.44	387.10	389.39	391.45	393.32
37	412.88	163.36	216.26	254.68	282.76	303.64	319.50	331.84	341.63	349.49	355.90	361.30	365.78	369.62	372.88	375.74	378.26	380.43	382.37	384.14
38	402.63	162.32	214.16	251.51	278.63	298.70	313.89	325.68	335.01	342.49	348.59	353.72	357.97	361.61	364.71	367.42	369.80	371.86	373.70	375.38
39	392.88	161.29	212.09	248.40	274.60	293.90	308.46	319.73	328.63	335.76	341.56	346.43	350.47	353.94	356.88	359.45	361.71	363.66	365.41	367.00
40	383.59	160.26	210.04	245.34	270.66	289.23	303.19	313.97	322.48	329.27	334.80	339.44	343.28	346.57	349.36	351.81	353.96	355.81	357.47	358.98

ตารางที่ ก.3 ค่ากระแสผิดพลาดในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับแรงดัน 33 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	4584.92	199.51	298.67	397.29	495.12	592.33	688.33	783.30	877.31	970.08	1061.24	1150.83	1238.99	1325.92	1411.22	1494.16	1575.67	1656.45	1733.48	1809.41
1	3241.97	198.28	295.72	391.75	486.03	578.67	669.03	757.26	843.39	927.13	1008.20	1086.62	1162.55	1236.21	1307.30	1375.26	1440.94	1504.92	1564.91	1623.07
2	2501.39	197.00	292.64	385.94	476.51	564.37	648.92	730.30	808.55	883.47	954.85	1022.80	1087.55	1149.35	1208.04	1263.26	1315.81	1366.23	1412.80	1457.31
3	2034.46	195.69	289.45	379.92	466.64	549.66	628.39	703.04	773.72	840.33	902.80	961.36	1016.31	1067.98	1116.33	1161.19	1203.30	1243.18	1279.57	1313.93
4	1713.75	194.34	286.16	373.72	456.56	534.72	607.76	675.96	739.54	798.56	853.08	903.44	950.04	993.26	1033.20	1069.81	1103.78	1135.60	1164.34	1191.23
5	1480.09	192.95	282.78	367.39	446.33	519.74	587.30	649.43	706.50	758.69	806.24	849.57	889.17	925.46	958.62	988.71	1016.36	1042.04	1065.03	1086.39
6	1302.36	191.53	279.34	360.97	436.05	504.84	567.21	623.72	674.87	721.03	762.53	799.90	833.67	864.31	892.04	916.97	939.71	960.67	979.32	996.54
7	1162.66	190.09	275.84	354.49	425.79	490.15	547.64	598.99	644.84	685.69	722.00	754.34	783.28	809.30	832.66	853.51	872.41	889.72	905.04	919.12
8	1049.97	188.62	272.29	347.98	415.61	475.74	528.69	575.34	616.48	652.70	684.55	712.66	737.59	759.83	779.66	797.26	813.12	827.58	840.32	851.99
9	957.18	187.13	268.72	341.49	405.55	461.69	510.44	552.85	589.80	621.99	650.02	674.55	696.15	715.30	732.27	747.25	760.69	772.90	783.61	793.39
10	879.43	185.61	265.12	335.02	395.66	448.05	492.94	531.51	564.76	593.44	618.21	639.73	658.55	675.13	689.76	702.62	714.11	724.52	733.63	741.92
11	813.36	184.08	261.50	328.60	385.96	434.84	476.19	511.32	541.30	566.93	588.90	607.86	624.35	638.81	651.51	662.64	672.55	681.49	689.31	696.41
12	756.51	182.54	257.89	322.25	376.49	422.09	460.21	492.25	519.33	542.31	561.88	578.66	593.19	605.87	616.97	626.67	635.28	643.04	649.80	655.93
13	707.08	180.98	254.28	315.98	367.26	409.81	444.98	474.24	498.78	519.45	536.93	551.86	564.72	575.91	585.68	594.18	601.72	608.50	614.40	619.74
14	663.71	179.41	250.68	309.81	358.28	398.01	430.48	457.26	479.54	498.19	513.88	527.21	538.65	548.58	557.22	564.73	571.37	577.33	582.52	587.20
15	625.35	177.84	247.10	303.75	349.56	386.67	416.69	441.25	461.53	478.40	492.53	504.49	514.72	523.58	531.26	537.93	543.81	549.09	553.68	557.82
16	591.18	176.26	243.55	297.81	341.11	375.79	403.59	426.14	444.65	459.96	472.74	483.51	492.70	500.63	507.50	513.45	518.70	523.40	527.47	531.16
17	560.55	174.67	240.03	291.99	332.93	365.37	391.14	411.89	428.82	442.76	454.35	464.08	472.37	479.51	485.68	491.02	495.72	499.93	503.58	506.87
18	532.94	173.08	236.54	286.29	325.02	355.38	379.30	398.43	413.96	426.69	437.23	446.07	453.57	460.02	465.59	470.40	474.63	478.42	481.70	484.66
19	507.92	171.50	233.09	280.73	317.37	345.82	368.05	385.73	400.00	411.65	421.27	429.32	436.14	441.99	447.03	451.39	455.22	458.64	461.60	464.27
20	485.14	169.91	229.69	275.30	309.98	336.66	357.36	373.71	386.86	397.56	406.37	413.72	419.94	425.26	429.85	433.81	437.29	440.40	443.08	445.51

ตารางที่ ก.3 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	464.32	168.32	226.33	270.00	302.85	327.89	347.18	362.35	374.49	384.34	392.43	399.16	404.85	409.72	413.91	417.52	420.69	423.52	425.96	428.17
22	445.20	166.74	223.02	264.85	295.97	319.50	337.50	351.59	362.83	371.92	379.36	385.55	390.77	395.23	399.07	402.37	405.27	407.86	410.10	412.11
23	427.60	165.17	219.76	259.82	289.32	311.45	328.29	341.40	351.82	360.22	367.09	372.79	377.60	381.70	385.23	388.26	390.92	393.30	395.35	397.20
24	411.34	163.60	216.55	254.93	282.92	303.75	319.51	331.73	341.41	349.20	355.56	360.83	365.26	369.04	372.29	375.09	377.54	379.72	381.61	383.31
25	396.27	162.04	213.39	250.17	276.74	296.37	311.14	322.55	331.56	338.80	344.70	349.57	353.68	357.17	360.18	362.76	365.02	367.04	368.78	370.35
26	382.27	160.48	210.29	245.54	270.77	289.29	303.16	313.83	322.24	328.97	334.45	338.98	342.78	346.03	348.81	351.20	353.30	355.16	356.78	358.23
27	369.22	158.94	207.25	241.04	265.02	282.51	295.54	305.54	313.39	319.67	324.78	328.99	332.53	335.54	338.12	340.34	342.29	344.02	345.52	346.87
28	357.03	157.40	204.26	236.67	259.47	276.00	288.26	297.64	304.99	310.86	315.62	319.55	322.85	325.66	328.06	330.13	331.94	333.55	334.94	336.20
29	345.62	155.88	201.32	232.41	254.11	269.75	281.31	290.12	297.01	302.51	306.96	310.63	313.71	316.33	318.57	320.50	322.19	323.69	324.99	326.16
30	334.92	154.37	198.45	228.28	248.94	263.75	274.66	282.95	289.42	294.57	298.74	302.18	305.06	307.51	309.60	311.40	312.98	314.39	315.60	316.69
31	324.86	152.87	195.62	224.26	243.95	257.99	268.29	276.10	282.19	287.03	290.94	294.16	296.86	299.15	301.12	302.81	304.28	305.60	306.74	307.76
32	315.38	151.39	192.86	220.36	239.13	252.45	262.19	269.56	275.29	279.84	283.52	286.55	289.08	291.24	293.08	294.66	296.05	297.29	298.35	299.31
33	306.45	149.92	190.15	216.57	234.48	247.13	256.35	263.31	268.71	273.00	276.47	279.31	281.70	283.72	285.46	286.94	288.25	289.41	290.41	291.31
34	298.00	148.46	187.49	212.88	229.98	242.00	250.74	257.32	262.43	266.48	269.74	272.43	274.67	276.58	278.21	279.61	280.84	281.93	282.88	283.73
35	290.01	147.02	184.89	209.30	225.63	237.07	245.36	251.60	256.42	260.25	263.33	265.86	267.98	269.78	271.32	272.64	273.80	274.83	275.72	276.52
36	282.44	145.59	182.34	205.81	221.43	232.32	240.20	246.11	250.68	254.29	257.21	259.60	261.60	263.30	264.76	266.01	267.10	268.07	268.92	269.67
37	275.25	144.18	179.84	202.43	217.37	227.75	235.23	240.84	245.17	248.60	251.36	253.63	255.52	257.13	258.50	259.68	260.72	261.64	262.44	263.15
38	268.42	142.78	177.40	199.14	213.44	223.34	230.46	235.79	239.90	243.15	245.77	247.91	249.71	251.23	252.53	253.65	254.63	255.50	256.26	256.94
39	261.92	141.40	175.01	195.94	209.63	219.08	225.87	230.93	234.84	237.93	240.41	242.45	244.15	245.60	246.83	247.89	248.82	249.65	250.36	251.01
40	255.72	140.03	172.67	192.83	205.95	214.98	221.45	226.27	229.99	232.92	235.28	237.21	238.83	240.20	241.38	242.39	243.27	244.05	244.73	245.34

ตารางที่ ก.4 ค่ากระแสผิดพลาดในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับแรงดัน 12 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	12608.53	199.87	299.72	399.37	498.78	597.65	697.39	796.65	895.25	993.86	1092.24	1191.37	1288.38	1385.76	1483.01	1580.39	1675.12	1772.78	1867.34	1966.90
1	8915.42	199.46	298.77	397.64	496.02	593.58	691.71	789.06	885.45	981.52	1077.01	1172.88	1266.34	1359.76	1452.69	1545.33	1635.07	1727.16	1815.92	1908.91
2	6878.83	199.04	297.80	395.86	493.16	589.36	685.80	781.15	875.21	968.59	1061.05	1153.49	1243.20	1332.50	1420.90	1508.62	1593.16	1679.50	1762.29	1848.58
3	5594.75	198.62	296.81	394.04	490.22	585.00	679.68	772.94	864.58	955.18	1044.49	1133.38	1219.24	1304.29	1388.07	1470.78	1550.10	1630.66	1707.50	1787.14
4	4712.82	198.19	295.80	392.18	487.20	580.52	673.38	764.49	853.62	941.36	1027.45	1112.72	1194.68	1275.45	1354.60	1432.33	1506.46	1581.36	1652.39	1725.60
5	4070.26	197.76	294.78	390.27	484.11	575.92	666.92	755.81	842.40	927.23	1010.06	1091.68	1169.73	1246.24	1320.83	1393.67	1462.77	1532.19	1597.67	1664.77
6	3581.49	197.32	293.73	388.33	480.95	571.21	660.31	746.96	830.95	912.85	992.41	1070.40	1144.58	1216.92	1287.04	1355.16	1419.42	1483.63	1543.86	1605.26
7	3197.30	196.87	292.67	386.34	477.72	566.42	653.58	737.95	819.34	898.30	974.60	1049.01	1119.40	1187.67	1253.49	1317.08	1376.75	1436.05	1491.39	1547.49
8	2887.43	196.42	291.59	384.33	474.44	561.54	646.75	728.82	807.61	883.64	956.73	1027.62	1094.32	1158.67	1220.37	1279.66	1335.01	1389.73	1440.53	1491.77
9	2632.24	195.96	290.50	382.28	471.11	556.59	639.82	719.60	795.79	868.93	938.87	1006.33	1069.47	1130.06	1187.85	1243.09	1294.39	1344.86	1391.49	1438.29
10	2418.44	195.50	289.39	380.20	467.74	551.58	632.83	710.32	783.93	854.23	921.09	985.24	1044.95	1101.95	1156.04	1207.48	1255.03	1301.58	1344.38	1387.16
11	2236.73	195.03	288.26	378.10	464.32	546.52	625.79	701.00	772.07	839.58	903.45	964.40	1020.84	1074.44	1125.05	1172.94	1217.00	1259.95	1299.27	1338.39
12	2080.40	194.56	287.13	375.97	460.86	541.42	618.71	691.66	760.23	825.02	885.99	943.87	997.20	1047.58	1094.93	1139.53	1180.38	1220.02	1256.16	1291.99
13	1944.47	194.08	285.97	373.82	457.37	536.28	611.60	682.32	748.45	810.60	868.77	923.71	974.08	1021.44	1065.74	1107.28	1145.17	1181.79	1215.05	1247.89
14	1825.21	193.60	284.81	371.64	453.85	531.12	604.49	673.01	736.74	796.33	851.82	903.96	951.52	996.04	1037.50	1076.21	1111.38	1145.24	1175.88	1206.04
15	1719.72	193.12	283.64	369.45	450.31	525.94	597.37	663.74	725.14	782.25	835.16	884.63	929.55	971.41	1010.22	1046.32	1078.99	1110.33	1138.60	1166.33
16	1625.76	192.62	282.45	367.23	446.76	520.74	590.27	654.52	713.66	768.37	818.82	865.76	908.19	947.56	983.91	1017.60	1047.97	1077.01	1103.13	1128.68
17	1541.52	192.13	281.25	365.01	443.18	515.54	583.19	645.37	702.31	754.72	802.81	847.36	887.44	924.48	958.56	990.02	1018.28	1045.23	1069.40	1092.97
18	1465.59	191.63	280.05	362.76	439.60	510.35	576.15	636.31	691.11	741.32	787.16	829.44	867.32	902.19	934.15	963.55	989.89	1014.93	1037.32	1059.10
19	1396.77	191.13	278.83	360.51	436.00	505.16	569.14	627.33	680.08	728.16	771.87	812.00	847.81	880.66	910.65	938.16	962.73	986.03	1006.80	1026.97
20	1334.13	190.62	277.61	358.25	432.40	499.99	562.18	618.46	669.22	715.27	756.95	795.05	828.92	859.88	888.06	913.82	936.77	958.47	977.78	996.48

ตารางที่ ก.4 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1276.87	190.11	276.37	355.97	428.80	494.83	555.28	609.70	658.54	702.65	742.39	778.58	810.64	839.83	866.32	890.48	911.93	932.18	950.15	967.53
22	1224.31	189.59	275.14	353.69	425.20	489.70	548.44	601.05	648.05	690.30	728.21	762.60	792.95	820.50	845.43	868.09	888.18	907.09	923.85	940.02
23	1175.91	189.08	273.89	351.40	421.61	484.60	541.67	592.53	637.75	678.23	714.40	747.09	775.84	801.86	825.34	846.63	865.46	883.15	898.79	913.86
24	1131.19	188.55	272.64	349.11	418.02	479.53	534.97	584.13	627.65	666.43	700.95	732.04	759.30	783.89	806.03	826.05	843.72	860.29	874.92	888.98
25	1089.75	188.03	271.38	346.82	414.44	474.49	528.34	575.87	617.74	654.91	687.87	717.45	743.30	766.57	787.45	806.31	822.91	838.45	852.14	865.30
26	1051.24	187.50	270.12	344.52	410.88	469.49	521.79	567.74	608.04	643.67	675.15	703.31	727.84	749.87	769.59	787.36	802.98	817.57	830.41	842.73
27	1015.35	186.97	268.85	342.23	407.32	464.53	515.33	559.74	598.53	632.70	662.78	689.59	712.90	733.77	752.41	769.18	783.88	797.60	809.66	821.21
28	981.83	186.44	267.58	339.93	403.79	459.62	508.95	551.89	589.23	622.00	650.75	676.31	698.46	718.24	735.88	751.71	765.58	778.50	789.84	800.69
29	950.46	185.90	266.30	337.64	400.27	454.75	502.66	544.17	580.13	611.56	639.06	663.43	684.49	703.27	719.98	734.94	748.03	760.21	770.88	781.08
30	921.02	185.36	265.03	335.35	396.77	449.93	496.46	536.59	571.22	601.39	627.69	650.94	670.99	688.82	704.66	718.82	731.19	742.68	752.75	762.35
31	893.36	184.82	263.75	333.07	393.30	445.17	490.35	529.16	562.51	591.48	616.65	638.84	657.94	674.88	689.91	703.33	715.03	725.89	735.38	744.44
32	867.31	184.28	262.46	330.78	389.84	440.45	484.33	521.86	554.00	581.81	605.92	627.12	645.31	661.43	675.70	688.42	699.50	709.77	718.75	727.30
33	842.73	183.73	261.18	328.51	386.41	435.79	478.40	514.70	545.68	572.40	595.49	615.75	633.10	648.44	662.01	674.08	684.58	694.31	702.80	710.89
34	819.51	183.18	259.89	326.24	383.01	431.18	472.57	507.69	537.54	563.22	585.35	604.72	621.29	635.90	648.80	660.27	670.24	679.46	687.50	695.15
35	797.54	182.63	258.61	323.98	379.63	426.62	466.83	500.80	529.59	554.28	575.50	594.04	609.85	623.79	636.07	646.97	656.44	665.19	672.82	680.07
36	776.71	182.08	257.32	321.73	376.28	422.13	461.18	494.06	521.83	545.57	565.93	583.67	598.78	612.08	623.78	634.16	643.16	651.47	658.71	665.59
37	756.94	181.53	256.04	319.49	372.96	417.69	455.62	487.45	514.24	537.08	556.62	573.62	588.07	600.76	611.92	621.80	630.37	638.27	645.15	651.68
38	738.15	180.97	254.75	317.26	369.66	413.30	450.16	480.97	506.82	528.81	547.57	563.86	577.69	589.82	600.46	609.89	618.05	625.57	632.11	638.32
39	720.27	180.41	253.46	315.04	366.40	408.98	444.79	474.62	499.58	520.75	538.78	554.39	567.63	579.23	589.40	598.39	606.17	613.33	619.56	625.46
40	703.24	179.85	252.18	312.83	363.17	404.71	439.52	468.41	492.50	512.89	530.22	545.21	557.89	568.98	578.70	587.29	594.71	601.54	607.47	613.10

ตารางที่ ก.5 ค่ากระแสผิดพลาดในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับแรงดัน 24 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	6304.27	199.68	299.15	398.32	497.11	595.43	693.22	790.19	886.39	982.07	1076.96	1171.00	1264.31	1356.31	1447.49	1538.03	1627.20	1714.57	1802.39	1886.89
1	4457.71	198.82	297.11	394.53	490.93	586.20	680.21	772.67	863.58	953.17	1041.16	1127.48	1212.23	1294.90	1375.92	1455.46	1532.89	1607.87	1682.34	1753.12
2	3439.41	197.93	294.99	390.57	484.46	576.51	666.56	754.31	839.75	923.10	1004.10	1082.69	1159.00	1232.58	1303.87	1373.05	1439.60	1503.29	1565.81	1624.54
3	2797.38	197.02	292.81	386.47	477.75	566.46	652.44	735.39	815.33	892.48	966.62	1037.75	1106.04	1171.14	1233.50	1293.32	1350.22	1404.09	1456.38	1504.99
4	2356.41	196.09	290.56	382.24	470.84	556.14	638.01	716.16	790.68	861.80	929.39	993.52	1054.39	1111.79	1166.17	1217.78	1266.38	1311.91	1355.68	1395.99
5	2035.13	195.13	288.25	377.91	463.76	545.63	623.39	696.83	766.09	831.47	892.92	950.59	1004.74	1055.28	1102.67	1147.22	1188.76	1227.34	1264.11	1297.69
6	1790.74	194.16	285.90	373.48	456.57	535.00	608.71	677.58	741.81	801.79	857.56	909.36	957.51	1002.01	1043.35	1081.87	1117.49	1150.31	1181.36	1209.52
7	1598.65	193.17	283.49	368.97	449.29	524.31	594.07	658.54	718.03	772.98	823.56	870.08	912.91	952.14	988.29	1021.70	1052.36	1080.43	1106.81	1130.59
8	1443.71	192.16	281.05	364.41	441.95	513.63	579.56	639.83	694.86	745.19	791.06	832.85	871.01	905.67	937.36	966.45	992.98	1017.11	1039.67	1059.91
9	1316.12	191.14	278.57	359.80	434.59	503.00	565.24	621.54	672.43	718.51	760.13	797.73	831.77	862.48	890.37	915.80	938.87	959.74	979.16	996.51
10	1209.22	190.10	276.06	355.16	427.24	492.46	551.17	603.74	650.79	693.00	730.80	764.67	795.12	822.40	847.03	869.38	889.54	907.70	924.53	939.50
11	1118.37	189.05	273.52	350.50	419.91	482.05	537.40	586.47	629.97	668.67	703.04	733.61	760.92	785.24	807.08	826.80	844.51	860.40	875.07	888.09
12	1040.20	187.98	270.97	345.83	412.63	471.79	523.96	569.77	610.01	645.51	676.81	704.47	729.03	750.78	770.22	787.70	803.33	817.32	830.19	841.58
13	972.24	186.91	268.39	341.16	405.41	461.72	510.88	553.64	590.89	623.51	652.06	677.14	699.29	718.81	736.18	751.73	765.61	777.98	789.34	799.37
14	912.61	185.82	265.80	336.50	398.27	451.85	498.17	538.11	572.62	602.62	628.71	651.51	671.54	689.11	704.70	718.60	730.97	741.97	752.05	760.93
15	859.86	184.72	263.21	331.87	391.22	442.19	485.85	523.16	555.16	582.80	606.69	627.46	645.63	661.51	675.54	688.02	699.10	708.93	717.91	725.81
16	812.88	183.62	260.60	327.26	384.28	432.76	473.91	508.80	538.51	564.00	585.93	604.89	621.41	635.80	648.48	659.74	669.70	678.52	686.57	693.64
17	770.76	182.50	258.00	322.69	377.45	423.57	462.37	495.01	522.62	546.17	566.33	583.69	598.76	611.85	623.34	633.52	642.51	650.46	657.71	664.06
18	732.79	181.38	255.40	318.15	370.75	414.61	451.21	481.77	507.46	529.26	547.83	563.76	577.54	589.48	599.94	609.18	617.33	624.52	631.07	636.81
19	698.39	180.26	252.80	313.67	364.16	405.90	440.44	469.08	493.01	513.22	530.36	545.01	557.65	568.56	578.11	586.53	593.94	600.47	606.41	611.61
20	667.07	179.12	250.20	309.23	357.72	397.43	430.04	456.91	479.23	497.99	513.84	527.35	538.97	548.98	557.71	565.41	572.17	578.13	583.54	588.27

ตารางที่ ก.5 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	638.43	177.99	247.62	304.85	351.40	389.20	420.01	445.24	466.09	483.53	498.22	510.70	521.40	530.61	538.63	545.68	551.87	557.32	562.26	566.58
22	612.16	176.85	245.05	300.53	345.22	381.22	410.34	434.05	453.55	469.79	483.43	494.98	504.87	513.35	520.74	527.22	532.90	537.90	542.43	546.39
23	587.96	175.70	242.49	296.27	339.18	373.46	401.02	423.32	441.58	456.73	469.41	480.13	489.28	497.12	503.94	509.91	515.15	519.75	523.91	527.55
24	565.60	174.56	239.95	292.07	333.28	365.94	392.03	413.03	430.14	444.31	456.12	466.08	474.57	481.83	488.14	493.66	498.50	502.74	506.58	509.93
25	544.88	173.41	237.43	287.93	327.52	358.65	383.36	403.15	419.22	432.47	443.50	452.77	460.67	467.41	473.26	478.37	482.85	486.77	490.33	493.42
26	525.62	172.26	234.93	283.87	321.89	351.58	375.01	393.68	408.79	421.20	431.51	440.16	447.52	453.79	459.22	463.97	468.12	471.77	475.06	477.93
27	507.67	171.11	232.44	279.87	316.41	344.73	366.95	384.59	398.80	410.45	420.11	428.19	435.05	440.90	445.96	450.38	454.25	457.63	460.69	463.36
28	490.92	169.97	229.98	275.94	311.05	338.09	359.19	375.86	389.25	400.20	409.25	416.82	423.24	428.70	433.42	437.54	441.14	444.30	447.15	449.63
29	475.23	168.82	227.54	272.09	305.83	331.65	351.70	367.47	380.10	390.41	398.91	406.01	412.02	417.13	421.54	425.39	428.76	431.70	434.36	436.67
30	460.51	167.68	225.13	268.30	300.75	325.42	344.47	359.41	371.34	381.05	389.04	395.71	401.35	406.14	410.28	413.88	417.03	419.78	422.27	424.43
31	446.68	166.53	222.74	264.58	295.79	319.37	337.50	351.66	362.94	372.10	379.63	385.90	391.20	395.70	399.58	402.96	405.91	408.49	410.82	412.85
32	433.65	165.39	220.38	260.93	290.95	313.51	330.77	344.21	354.89	363.54	370.64	376.55	381.53	385.76	389.41	392.59	395.36	397.78	399.97	401.87
33	421.37	164.26	218.04	257.35	286.24	307.82	324.27	337.04	347.15	355.34	362.04	367.62	372.31	376.30	379.73	382.72	385.33	387.60	389.66	391.45
34	409.76	163.12	215.73	253.84	281.65	302.32	318.00	330.14	339.73	347.48	353.82	359.08	363.52	367.27	370.51	373.33	375.78	377.93	379.87	381.55
35	398.77	161.99	213.45	250.40	277.18	296.97	311.94	323.49	332.59	339.94	345.94	350.92	355.11	358.66	361.72	364.38	366.69	368.72	370.54	372.13
36	388.35	160.87	211.20	247.03	272.82	291.79	306.08	317.08	325.73	332.70	338.39	343.11	347.07	350.43	353.32	355.83	358.02	359.94	361.66	363.16
37	378.47	159.75	208.98	243.72	268.58	286.77	300.42	310.90	319.14	325.75	331.15	335.62	339.38	342.56	345.30	347.67	349.75	351.56	353.19	354.61
38	369.08	158.63	206.78	240.49	264.44	281.89	294.95	304.94	312.78	319.08	324.20	328.45	332.01	335.03	337.62	339.88	341.84	343.55	345.10	346.45
39	360.14	157.52	204.61	237.31	260.41	277.16	289.65	299.19	306.67	312.65	317.53	321.56	324.95	327.81	330.27	332.41	334.27	335.90	337.37	338.64
40	351.62	156.41	202.48	234.20	256.48	272.57	284.53	293.64	300.77	306.48	311.12	314.95	318.17	320.89	323.23	325.26	327.03	328.58	329.97	331.18

ตารางที่ ก.6 ค่ากระแสผัดพร้อมในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผัดพร้อมต่างกันสำหรับแรงดัน 3 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	50434.14	199.98	300.11	399.89	500.39	599.03	700.82	797.64	901.40	1000.29	1102.11	1201.46	1300.68	1394.92	1497.77	1601.15	1696.95	1796.51	1896.16	1995.71
1	35661.67	199.88	299.89	399.49	499.77	598.13	699.57	796.01	899.30	997.69	1098.93	1197.66	1296.19	1389.72	1491.74	1594.21	1689.10	1787.65	1886.23	1984.64
2	27515.31	199.78	299.67	399.09	499.13	597.21	698.31	794.35	897.17	995.04	1095.68	1193.77	1291.59	1384.39	1485.54	1587.07	1681.02	1778.53	1875.98	1973.21
3	22379.01	199.68	299.44	398.68	498.49	596.28	697.02	792.67	895.00	992.34	1092.37	1189.79	1286.89	1378.94	1479.19	1579.75	1672.72	1769.15	1865.45	1961.44
4	18851.27	199.58	299.22	398.28	497.84	595.34	695.72	790.96	892.79	989.59	1089.00	1185.74	1282.09	1373.37	1472.70	1572.25	1664.23	1759.53	1854.63	1949.35
5	16281.03	199.48	298.99	397.86	497.19	594.39	694.40	789.23	890.55	986.80	1085.57	1181.62	1277.20	1367.68	1466.07	1564.59	1655.53	1749.69	1843.56	1936.97
6	14325.96	199.38	298.76	397.45	496.53	593.43	693.07	787.48	888.28	983.97	1082.08	1177.42	1272.22	1361.89	1459.31	1556.77	1646.66	1739.65	1832.26	1924.32
7	12789.21	199.28	298.53	397.03	495.86	592.46	691.72	785.71	885.98	981.09	1078.53	1173.15	1267.15	1355.99	1452.42	1548.81	1637.62	1729.40	1820.73	1911.42
8	11549.72	199.18	298.29	396.61	495.19	591.48	690.35	783.91	883.64	978.17	1074.94	1168.82	1262.00	1349.99	1445.42	1540.71	1628.42	1718.98	1808.99	1898.29
9	10528.94	199.08	298.06	396.19	494.52	590.49	688.97	782.09	881.28	975.21	1071.29	1164.42	1256.77	1343.90	1438.31	1532.48	1619.07	1708.39	1797.07	1884.96
10	9673.76	198.98	297.83	395.76	493.83	589.49	687.58	780.25	878.89	972.21	1067.59	1159.96	1251.47	1337.73	1431.09	1524.13	1609.59	1697.65	1784.98	1871.44
11	8946.92	198.87	297.59	395.33	493.14	588.49	686.17	778.39	876.46	969.18	1063.85	1155.44	1246.10	1331.47	1423.78	1515.66	1599.98	1686.76	1772.74	1857.75
12	8321.59	198.77	297.35	394.90	492.45	587.47	684.75	776.51	874.02	966.11	1060.06	1150.86	1240.66	1325.13	1416.38	1507.10	1590.26	1675.76	1760.36	1843.92
13	7777.89	198.67	297.11	394.46	491.75	586.44	683.31	774.61	871.54	963.01	1056.23	1146.24	1235.16	1318.72	1408.89	1498.44	1580.44	1664.64	1747.86	1829.95
14	7300.84	198.57	296.87	394.02	491.05	585.41	681.86	772.69	869.04	959.87	1052.35	1141.56	1229.60	1312.25	1401.33	1489.70	1570.52	1653.41	1735.25	1815.88
15	6878.90	198.46	296.63	393.58	490.33	584.36	680.40	770.75	866.52	956.71	1048.44	1136.84	1223.99	1305.71	1393.70	1480.88	1560.51	1642.10	1722.55	1801.71
16	6503.03	198.36	296.39	393.14	489.62	583.31	678.92	768.80	863.97	953.51	1044.49	1132.07	1218.32	1299.11	1386.00	1471.98	1550.43	1630.71	1709.77	1787.47
17	6166.10	198.25	296.15	392.69	488.90	582.25	677.43	766.83	861.39	950.28	1040.50	1127.26	1212.60	1292.46	1378.24	1463.03	1540.29	1619.26	1696.93	1773.16
18	5862.34	198.15	295.90	392.24	488.17	581.18	675.93	764.84	858.80	947.03	1036.49	1122.41	1206.84	1285.76	1370.43	1454.01	1530.09	1607.75	1684.03	1758.81
19	5587.10	198.04	295.65	391.79	487.44	580.10	674.42	762.84	856.19	943.75	1032.44	1117.53	1201.04	1279.01	1362.57	1444.95	1519.84	1596.19	1671.09	1744.42
20	5336.53	197.94	295.41	391.34	486.71	579.02	672.89	760.82	853.55	940.44	1028.36	1112.61	1195.20	1272.23	1354.67	1435.85	1509.55	1584.60	1658.13	1730.02

ตารางที่ ก.6 (ต่อ)

kmR	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	5107.47	197.83	295.16	390.88	485.97	577.93	671.36	758.79	850.90	937.11	1024.25	1107.66	1189.33	1265.40	1346.74	1426.71	1499.23	1572.98	1645.14	1715.61
22	4897.25	197.72	294.91	390.42	485.22	576.83	669.81	756.74	848.22	933.76	1020.11	1102.68	1183.43	1258.55	1338.77	1417.55	1488.88	1561.34	1632.15	1701.21
23	4703.65	197.62	294.66	389.95	484.47	575.72	668.26	754.68	845.53	930.39	1015.96	1097.67	1177.49	1251.67	1330.77	1408.36	1478.52	1549.70	1619.17	1686.82
24	4524.77	197.51	294.40	389.49	483.72	574.61	666.69	752.60	842.83	927.00	1011.77	1092.64	1171.54	1244.76	1322.76	1399.15	1468.15	1538.05	1606.19	1672.46
25	4359.00	197.40	294.15	389.02	482.96	573.49	665.11	750.51	840.10	923.59	1007.57	1087.58	1165.56	1237.83	1314.72	1389.93	1457.77	1526.42	1593.24	1658.14
26	4204.94	197.30	293.90	388.55	482.20	572.36	663.53	748.41	837.36	920.16	1003.35	1082.51	1159.56	1230.88	1306.67	1380.70	1447.40	1514.79	1580.31	1643.87
27	4061.40	197.19	293.64	388.08	481.43	571.23	661.93	746.30	834.61	916.71	999.11	1077.42	1153.54	1223.93	1298.62	1371.48	1437.03	1503.19	1567.42	1629.65
28	3927.33	197.08	293.38	387.60	480.66	570.09	660.33	744.17	831.84	913.25	994.85	1072.31	1147.51	1216.95	1290.56	1362.26	1426.68	1491.62	1554.58	1615.50
29	3801.83	196.97	293.13	387.13	479.88	568.94	658.72	742.04	829.06	909.78	990.58	1067.19	1141.47	1209.98	1282.49	1353.04	1416.35	1480.08	1541.79	1601.42
30	3684.10	196.86	292.87	386.65	479.10	567.79	657.10	739.89	826.27	906.29	986.30	1062.05	1135.41	1202.99	1274.43	1343.84	1406.04	1468.58	1529.06	1587.42
31	3573.44	196.75	292.61	386.16	478.32	566.63	655.47	737.74	823.47	902.79	982.00	1056.91	1129.36	1196.01	1266.38	1334.66	1395.77	1457.12	1516.39	1573.51
32	3469.23	196.64	292.35	385.68	477.53	565.46	653.83	735.57	820.65	899.28	977.70	1051.76	1123.29	1189.03	1258.34	1325.49	1385.52	1445.72	1503.79	1559.68
33	3370.93	196.53	292.08	385.19	476.74	564.29	652.19	733.40	817.83	895.75	973.38	1046.60	1117.23	1182.05	1250.31	1316.36	1375.32	1434.37	1491.26	1545.96
34	3278.05	196.42	291.82	384.70	475.94	563.12	650.53	731.22	815.00	892.22	969.06	1041.43	1111.16	1175.08	1242.29	1307.25	1365.16	1423.08	1478.82	1532.33
35	3190.14	196.31	291.56	384.21	475.14	561.94	648.88	729.03	812.15	888.68	964.73	1036.27	1105.10	1168.12	1234.30	1298.17	1355.04	1411.85	1466.45	1518.81
36	3106.83	196.20	291.29	383.72	474.34	560.75	647.21	726.83	809.30	885.14	960.39	1031.10	1099.05	1161.17	1226.33	1289.13	1344.97	1400.70	1454.18	1505.40
37	3027.76	196.08	291.03	383.22	473.54	559.56	645.54	724.63	806.45	881.58	956.06	1025.93	1092.99	1154.23	1218.38	1280.12	1334.96	1389.61	1441.99	1492.11
38	2952.61	195.97	290.76	382.73	472.73	558.37	643.87	722.41	803.58	878.03	951.71	1020.77	1086.95	1147.31	1210.46	1271.16	1325.00	1378.59	1429.90	1478.93
39	2881.10	195.86	290.49	382.23	471.92	557.17	642.18	720.20	800.71	874.46	947.37	1015.60	1080.92	1140.41	1202.57	1262.24	1315.10	1367.66	1417.91	1465.88
40	2812.97	195.75	290.22	381.73	471.10	555.96	640.49	717.97	797.84	870.90	943.03	1010.45	1074.90	1133.52	1194.71	1253.37	1305.26	1356.80	1406.02	1452.94

ตารางที่ ก.7 ค่ากระแสผิดพลาดในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับแรงดัน 6 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	25217.07	199.94	299.78	399.74	499.55	599.69	698.87	798.73	898.07	999.01	1096.99	1195.31	1298.21	1397.58	1493.86	1589.65	1690.27	1795.13	1892.96	1990.57
1	17830.83	199.74	299.32	398.92	498.26	597.80	696.26	795.28	893.64	993.46	1090.22	1187.16	1288.48	1386.17	1480.67	1574.55	1673.00	1775.42	1870.80	1965.80
2	13757.66	199.54	298.86	398.09	496.93	595.86	693.58	791.72	889.08	987.73	1083.21	1178.72	1278.38	1374.30	1466.93	1558.80	1654.97	1754.81	1847.62	1939.87
3	11189.50	199.34	298.40	397.24	495.59	593.88	690.84	788.08	884.40	981.83	1075.98	1170.00	1267.93	1362.02	1452.70	1542.47	1636.26	1733.43	1823.56	1912.96
4	9425.64	199.14	297.93	396.39	494.22	591.86	688.04	784.35	879.59	975.77	1068.54	1161.03	1257.18	1349.36	1438.04	1525.65	1616.98	1711.40	1798.77	1885.24
5	8140.52	198.93	297.45	395.52	492.83	589.81	685.19	780.54	874.67	969.56	1060.93	1151.83	1246.14	1336.38	1422.99	1508.39	1597.21	1688.82	1773.38	1856.88
6	7162.98	198.72	296.97	394.64	491.41	587.71	682.28	776.65	869.65	963.22	1053.14	1142.43	1234.86	1323.10	1407.62	1490.76	1577.04	1665.80	1747.53	1828.03
7	6394.61	198.52	296.48	393.74	489.98	585.59	679.32	772.69	864.53	956.75	1045.20	1132.84	1223.36	1309.58	1391.98	1472.84	1556.55	1642.44	1721.33	1798.84
8	5774.86	198.31	295.99	392.84	488.52	583.43	676.31	768.66	859.32	950.17	1037.12	1123.08	1211.67	1295.85	1376.10	1454.67	1535.81	1618.84	1694.90	1769.43
9	5264.47	198.09	295.50	391.93	487.05	581.24	673.25	764.56	854.03	943.49	1028.91	1113.19	1199.83	1281.95	1360.05	1436.33	1514.90	1595.08	1668.34	1739.93
10	4836.88	197.88	295.00	391.00	485.55	579.02	670.15	760.41	848.66	936.71	1020.60	1103.17	1187.85	1267.91	1343.86	1417.85	1493.87	1571.24	1641.73	1710.44
11	4473.46	197.67	294.49	390.07	484.04	576.76	667.00	756.20	843.22	929.85	1012.19	1093.05	1175.76	1253.76	1327.57	1399.29	1472.79	1547.39	1615.17	1681.06
12	4160.79	197.45	293.98	389.12	482.51	574.49	663.82	751.94	837.72	922.92	1003.71	1082.84	1163.59	1239.54	1311.22	1380.70	1451.72	1523.59	1588.72	1651.86
13	3888.95	197.23	293.47	388.17	480.96	572.18	660.60	747.63	832.16	915.92	995.15	1072.56	1151.35	1225.27	1294.85	1362.12	1430.69	1499.91	1562.45	1622.93
14	3650.42	197.01	292.95	387.20	479.40	569.85	657.35	743.28	826.55	908.86	986.53	1062.23	1139.08	1210.98	1278.48	1343.58	1409.76	1476.38	1536.41	1594.32
15	3439.45	196.79	292.43	386.23	477.82	567.50	654.06	738.89	820.90	901.76	977.87	1051.87	1126.79	1196.69	1262.15	1325.12	1388.96	1453.06	1510.66	1566.08
16	3251.52	196.57	291.90	385.25	476.22	565.13	650.75	734.47	815.21	894.62	969.18	1041.48	1114.49	1182.43	1245.89	1306.77	1368.34	1429.98	1485.23	1538.26
17	3083.05	196.35	291.37	384.26	474.61	562.73	647.41	730.01	809.48	887.45	960.47	1031.09	1102.21	1168.21	1229.71	1288.55	1347.91	1407.18	1460.17	1510.90
18	2931.17	196.12	290.83	383.26	472.99	560.31	644.05	725.53	803.73	880.26	951.74	1020.70	1089.96	1154.07	1213.64	1270.50	1327.71	1384.68	1435.50	1484.02
19	2793.55	195.90	290.29	382.25	471.35	557.88	640.66	721.02	797.95	873.05	943.01	1010.32	1077.76	1140.00	1197.69	1252.62	1307.76	1362.52	1411.24	1457.65
20	2668.26	195.67	289.75	381.24	469.71	555.43	637.25	716.49	792.16	865.83	934.28	999.98	1065.61	1126.04	1181.90	1234.95	1288.07	1340.70	1387.41	1431.81

ตารางที่ ก.7 (ต่อ)

km/R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	2553.73	195.44	289.20	380.22	468.05	552.96	633.83	711.94	786.35	858.61	925.57	989.67	1053.53	1112.18	1166.26	1217.50	1268.68	1319.25	1364.03	1406.51
22	2448.63	195.21	288.65	379.19	466.37	550.48	630.38	707.38	780.54	851.39	916.88	979.41	1041.54	1098.45	1150.80	1200.27	1249.58	1298.18	1341.12	1381.76
23	2351.83	194.98	288.10	378.15	464.69	547.99	626.93	702.81	774.72	844.18	908.22	969.20	1029.64	1084.85	1135.52	1183.29	1230.79	1277.50	1318.67	1357.56
24	2262.39	194.74	287.54	377.11	463.00	545.48	623.46	698.23	768.90	836.99	899.59	959.05	1017.84	1071.40	1120.43	1166.56	1212.32	1257.22	1296.70	1333.92
25	2179.50	194.51	286.98	376.06	461.30	542.96	619.98	693.64	763.08	829.81	891.00	948.98	1006.15	1058.11	1105.55	1150.09	1194.17	1237.33	1275.20	1310.83
26	2102.47	194.28	286.41	375.00	459.59	540.44	616.49	689.05	757.27	822.66	882.46	938.98	994.57	1044.97	1090.88	1133.89	1176.36	1217.85	1254.18	1288.30
27	2030.70	194.04	285.85	373.94	457.87	537.90	613.00	684.46	751.47	815.53	873.98	929.07	983.12	1032.00	1076.43	1117.96	1158.88	1198.77	1233.64	1266.32
28	1963.66	193.80	285.28	372.87	456.15	535.36	609.50	679.87	745.69	808.44	865.55	919.24	971.79	1019.20	1062.20	1102.30	1141.73	1180.10	1213.57	1244.88
29	1900.91	193.56	284.70	371.80	454.41	532.80	606.00	675.28	739.92	801.39	857.18	909.51	960.60	1006.58	1048.19	1086.92	1124.92	1161.83	1193.96	1223.97
30	1842.05	193.32	284.12	370.72	452.67	530.25	602.49	670.70	734.17	794.37	848.87	899.87	949.54	994.13	1034.41	1071.81	1108.45	1143.96	1174.82	1203.59
31	1786.72	193.08	283.54	369.64	450.93	527.68	598.98	666.13	728.45	787.40	840.64	890.33	938.62	981.87	1020.85	1056.99	1092.31	1126.48	1156.13	1183.73
32	1734.62	192.84	282.96	368.55	449.17	525.12	595.48	661.57	722.75	780.47	832.47	880.90	927.84	969.80	1007.53	1042.44	1076.51	1109.40	1137.89	1164.37
33	1685.47	192.60	282.37	367.46	447.42	522.55	591.98	657.02	717.08	773.60	824.39	871.57	917.21	957.91	994.44	1028.17	1061.03	1092.70	1120.09	1145.51
34	1639.02	192.35	281.79	366.36	445.66	519.97	588.48	652.49	711.43	766.77	816.37	862.35	906.72	946.21	981.57	1014.18	1045.88	1076.38	1102.72	1127.13
35	1595.07	192.11	281.19	365.26	443.89	517.40	584.98	647.97	705.82	760.00	808.44	853.25	896.38	934.69	968.94	1000.46	1031.05	1060.44	1085.77	1109.22
36	1553.41	191.86	280.60	364.16	442.12	514.82	581.49	643.47	700.25	753.28	800.59	844.25	886.19	923.37	956.54	987.01	1016.53	1044.85	1069.23	1091.77
37	1513.88	191.61	280.00	363.05	440.35	512.25	578.01	638.98	694.70	746.62	792.83	835.37	876.15	912.23	944.36	973.82	1002.33	1029.63	1053.10	1074.76
38	1476.30	191.36	279.41	361.94	438.58	509.68	574.54	634.52	689.20	740.02	785.15	826.60	866.26	901.27	932.40	960.90	988.44	1014.76	1037.36	1058.20
39	1440.55	191.11	278.80	360.83	436.80	507.10	571.07	630.08	683.73	733.48	777.55	817.95	856.52	890.51	920.67	948.24	974.84	1000.23	1022.00	1042.05
40	1406.49	190.86	278.20	359.71	435.02	504.53	567.62	625.66	678.30	727.00	770.04	809.42	846.93	879.93	909.16	935.84	961.54	986.04	1007.02	1026.32

ตารางที่ ก.8 แรงดันผิดรูปเฟส B ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดรูปต่างกันสำหรับระบบ 22 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.973	1.714	1.705	1.696	1.686	1.676	1.666	1.656	1.645	1.634	1.623	1.612	1.601	1.589	1.578	1.566	1.554	1.543	1.531	1.519
1	1.054	1.709	1.697	1.684	1.672	1.659	1.645	1.632	1.618	1.604	1.590	1.576	1.561	1.547	1.533	1.518	1.504	1.490	1.476	1.461
2	1.117	1.704	1.689	1.673	1.657	1.641	1.625	1.608	1.592	1.575	1.558	1.542	1.525	1.509	1.492	1.476	1.460	1.445	1.430	1.415
3	1.162	1.698	1.680	1.662	1.643	1.624	1.605	1.586	1.567	1.548	1.529	1.511	1.492	1.475	1.457	1.440	1.424	1.408	1.393	1.378
4	1.195	1.693	1.672	1.651	1.629	1.608	1.586	1.565	1.543	1.523	1.502	1.483	1.463	1.445	1.427	1.410	1.394	1.378	1.364	1.349
5	1.220	1.687	1.664	1.640	1.616	1.592	1.568	1.544	1.521	1.499	1.478	1.458	1.438	1.419	1.402	1.385	1.370	1.355	1.341	1.328
6	1.240	1.682	1.656	1.629	1.602	1.576	1.550	1.525	1.501	1.478	1.456	1.435	1.416	1.398	1.381	1.365	1.350	1.337	1.324	1.312
7	1.256	1.676	1.647	1.618	1.589	1.561	1.533	1.507	1.482	1.459	1.437	1.416	1.397	1.380	1.364	1.349	1.335	1.323	1.311	1.301
8	1.268	1.671	1.639	1.608	1.576	1.546	1.518	1.490	1.465	1.441	1.420	1.399	1.381	1.364	1.349	1.336	1.323	1.312	1.302	1.293
9	1.279	1.666	1.631	1.597	1.564	1.532	1.503	1.475	1.449	1.426	1.404	1.385	1.368	1.352	1.338	1.325	1.314	1.304	1.295	1.287
10	1.288	1.660	1.623	1.587	1.552	1.519	1.489	1.461	1.435	1.412	1.391	1.373	1.356	1.342	1.329	1.317	1.307	1.298	1.291	1.284
11	1.295	1.655	1.615	1.577	1.541	1.507	1.476	1.447	1.422	1.399	1.380	1.362	1.347	1.333	1.321	1.311	1.302	1.294	1.288	1.282
12	1.302	1.649	1.608	1.567	1.530	1.495	1.463	1.435	1.410	1.389	1.370	1.353	1.339	1.326	1.316	1.306	1.298	1.292	1.286	1.281
13	1.308	1.644	1.600	1.558	1.519	1.484	1.452	1.424	1.400	1.379	1.361	1.345	1.332	1.321	1.311	1.303	1.296	1.290	1.285	1.280
14	1.313	1.639	1.593	1.549	1.509	1.473	1.441	1.414	1.390	1.370	1.353	1.339	1.327	1.316	1.308	1.300	1.294	1.289	1.285	1.281
15	1.317	1.634	1.585	1.540	1.499	1.463	1.432	1.405	1.382	1.363	1.347	1.333	1.322	1.313	1.305	1.298	1.293	1.289	1.285	1.282
16	1.321	1.628	1.578	1.531	1.490	1.453	1.423	1.396	1.374	1.356	1.341	1.329	1.318	1.310	1.303	1.297	1.293	1.289	1.286	1.283
17	1.325	1.623	1.571	1.523	1.481	1.445	1.414	1.389	1.368	1.350	1.336	1.325	1.316	1.308	1.302	1.297	1.293	1.289	1.287	1.285
18	1.328	1.618	1.564	1.515	1.472	1.436	1.406	1.382	1.362	1.345	1.332	1.322	1.313	1.306	1.301	1.296	1.293	1.290	1.288	1.286
19	1.331	1.613	1.557	1.507	1.464	1.429	1.399	1.376	1.356	1.341	1.329	1.319	1.311	1.305	1.300	1.297	1.294	1.291	1.289	1.288
20	1.334	1.608	1.550	1.499	1.457	1.421	1.393	1.370	1.352	1.337	1.326	1.317	1.310	1.305	1.300	1.297	1.294	1.292	1.291	1.290

ตารางที่ ก.8 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.337	1.603	1.544	1.492	1.449	1.414	1.387	1.365	1.347	1.334	1.324	1.315	1.309	1.304	1.300	1.298	1.295	1.294	1.293	1.292
22	1.339	1.598	1.537	1.485	1.442	1.408	1.381	1.360	1.344	1.331	1.322	1.314	1.308	1.304	1.301	1.298	1.296	1.295	1.294	1.294
23	1.341	1.593	1.531	1.478	1.436	1.402	1.376	1.356	1.341	1.329	1.320	1.313	1.308	1.304	1.301	1.299	1.298	1.297	1.296	1.296
24	1.343	1.588	1.525	1.472	1.430	1.397	1.371	1.352	1.338	1.327	1.319	1.312	1.308	1.304	1.302	1.300	1.299	1.298	1.298	1.298
25	1.345	1.583	1.519	1.466	1.424	1.392	1.367	1.349	1.335	1.325	1.317	1.312	1.308	1.305	1.303	1.301	1.300	1.300	1.299	1.299
26	1.346	1.579	1.513	1.460	1.418	1.387	1.363	1.346	1.333	1.323	1.317	1.311	1.308	1.305	1.304	1.302	1.302	1.301	1.301	1.301
27	1.348	1.574	1.507	1.454	1.413	1.382	1.360	1.343	1.331	1.322	1.316	1.311	1.308	1.306	1.304	1.303	1.303	1.303	1.303	1.303
28	1.349	1.569	1.502	1.448	1.408	1.378	1.356	1.341	1.329	1.321	1.315	1.311	1.309	1.307	1.305	1.305	1.304	1.304	1.304	1.305
29	1.351	1.565	1.496	1.443	1.403	1.374	1.353	1.339	1.328	1.320	1.315	1.311	1.309	1.307	1.306	1.306	1.306	1.306	1.306	1.307
30	1.352	1.560	1.491	1.438	1.399	1.371	1.351	1.337	1.327	1.320	1.315	1.312	1.310	1.308	1.307	1.307	1.307	1.307	1.308	1.308
31	1.353	1.556	1.486	1.433	1.395	1.367	1.348	1.335	1.326	1.319	1.315	1.312	1.310	1.309	1.308	1.308	1.308	1.309	1.309	1.310
32	1.354	1.552	1.481	1.428	1.391	1.364	1.346	1.333	1.325	1.319	1.315	1.312	1.311	1.310	1.310	1.310	1.310	1.310	1.311	1.311
33	1.355	1.547	1.476	1.424	1.387	1.362	1.344	1.332	1.324	1.319	1.315	1.313	1.311	1.311	1.311	1.311	1.311	1.312	1.312	1.313
34	1.356	1.543	1.472	1.420	1.384	1.359	1.342	1.331	1.323	1.318	1.315	1.313	1.312	1.312	1.312	1.312	1.312	1.313	1.314	1.314
35	1.357	1.539	1.467	1.416	1.380	1.356	1.340	1.330	1.323	1.318	1.316	1.314	1.313	1.313	1.313	1.313	1.314	1.314	1.315	1.316
36	1.358	1.535	1.463	1.412	1.377	1.354	1.339	1.329	1.322	1.318	1.316	1.314	1.314	1.314	1.314	1.314	1.315	1.316	1.316	1.317
37	1.359	1.531	1.459	1.408	1.374	1.352	1.338	1.328	1.322	1.318	1.316	1.315	1.315	1.315	1.315	1.315	1.316	1.317	1.318	1.319
38	1.360	1.527	1.454	1.405	1.372	1.350	1.336	1.328	1.322	1.319	1.317	1.316	1.315	1.316	1.316	1.317	1.317	1.318	1.319	1.320
39	1.361	1.523	1.450	1.401	1.369	1.348	1.335	1.327	1.322	1.319	1.317	1.316	1.316	1.316	1.317	1.318	1.319	1.319	1.320	1.321
40	1.362	1.519	1.446	1.398	1.367	1.347	1.334	1.326	1.322	1.319	1.318	1.317	1.317	1.317	1.318	1.319	1.320	1.321	1.322	1.323

ตารางที่ ก.9 แรงดันผิพว่องเฟส B ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิพว่องต่างกันสำหรับระบบ 33 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.973	1.705	1.691	1.676	1.661	1.645	1.629	1.612	1.595	1.578	1.560	1.543	1.525	1.507	1.488	1.470	1.452	1.433	1.415	1.397
1	1.054	1.697	1.678	1.659	1.639	1.618	1.597	1.576	1.554	1.533	1.511	1.490	1.469	1.447	1.427	1.406	1.386	1.366	1.347	1.329
2	1.117	1.689	1.665	1.641	1.617	1.592	1.567	1.542	1.517	1.492	1.468	1.445	1.422	1.400	1.379	1.358	1.339	1.320	1.302	1.285
3	1.162	1.680	1.653	1.624	1.596	1.567	1.539	1.511	1.484	1.457	1.432	1.408	1.385	1.363	1.343	1.324	1.306	1.289	1.273	1.259
4	1.195	1.672	1.640	1.608	1.575	1.543	1.512	1.483	1.454	1.427	1.402	1.378	1.356	1.336	1.317	1.300	1.284	1.270	1.256	1.244
5	1.220	1.664	1.628	1.592	1.556	1.521	1.489	1.458	1.429	1.402	1.377	1.355	1.334	1.316	1.299	1.284	1.271	1.258	1.247	1.238
6	1.240	1.656	1.616	1.576	1.538	1.501	1.467	1.436	1.407	1.381	1.357	1.337	1.318	1.301	1.287	1.274	1.262	1.252	1.244	1.236
7	1.256	1.647	1.604	1.561	1.520	1.482	1.448	1.416	1.388	1.363	1.342	1.323	1.306	1.291	1.279	1.268	1.258	1.250	1.243	1.237
8	1.268	1.639	1.592	1.546	1.504	1.465	1.430	1.400	1.373	1.349	1.329	1.312	1.297	1.285	1.274	1.265	1.257	1.250	1.244	1.240
9	1.279	1.631	1.580	1.532	1.489	1.449	1.415	1.385	1.360	1.338	1.320	1.304	1.291	1.280	1.271	1.263	1.257	1.252	1.247	1.244
10	1.288	1.623	1.569	1.519	1.474	1.435	1.401	1.373	1.349	1.329	1.312	1.298	1.287	1.278	1.270	1.264	1.258	1.254	1.251	1.248
11	1.295	1.615	1.559	1.507	1.461	1.422	1.389	1.362	1.340	1.321	1.306	1.294	1.284	1.277	1.270	1.265	1.261	1.257	1.255	1.253
12	1.302	1.608	1.548	1.495	1.449	1.410	1.379	1.353	1.332	1.315	1.302	1.292	1.283	1.276	1.271	1.267	1.263	1.261	1.259	1.257
13	1.308	1.600	1.538	1.484	1.438	1.400	1.369	1.345	1.326	1.311	1.299	1.290	1.283	1.277	1.272	1.269	1.266	1.264	1.263	1.262
14	1.313	1.593	1.528	1.473	1.427	1.390	1.361	1.339	1.321	1.308	1.297	1.289	1.283	1.278	1.274	1.272	1.270	1.268	1.267	1.266
15	1.317	1.585	1.519	1.463	1.418	1.382	1.354	1.333	1.317	1.305	1.296	1.289	1.283	1.279	1.276	1.274	1.273	1.272	1.271	1.271
16	1.321	1.578	1.510	1.453	1.409	1.374	1.348	1.329	1.314	1.303	1.295	1.289	1.284	1.281	1.279	1.277	1.276	1.275	1.275	1.275
17	1.325	1.571	1.501	1.445	1.401	1.368	1.343	1.325	1.312	1.302	1.295	1.289	1.286	1.283	1.281	1.280	1.279	1.279	1.279	1.279
18	1.328	1.564	1.493	1.436	1.393	1.362	1.339	1.322	1.310	1.301	1.295	1.290	1.287	1.285	1.284	1.283	1.282	1.282	1.282	1.283
19	1.331	1.557	1.485	1.429	1.387	1.356	1.335	1.319	1.308	1.300	1.295	1.291	1.289	1.287	1.286	1.286	1.285	1.286	1.286	1.286
20	1.334	1.550	1.477	1.421	1.381	1.352	1.331	1.317	1.307	1.300	1.296	1.292	1.290	1.289	1.289	1.288	1.288	1.289	1.289	1.290

ตารางที่ ก.9 (ต่อ)

km/R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.337	1.544	1.470	1.414	1.375	1.348	1.329	1.315	1.306	1.300	1.296	1.294	1.292	1.291	1.291	1.291	1.291	1.292	1.292	1.293
22	1.339	1.537	1.463	1.408	1.370	1.344	1.326	1.314	1.306	1.301	1.297	1.295	1.294	1.293	1.293	1.293	1.294	1.295	1.295	1.296
23	1.341	1.531	1.456	1.402	1.365	1.341	1.324	1.313	1.306	1.301	1.298	1.297	1.296	1.295	1.296	1.296	1.297	1.297	1.298	1.299
24	1.343	1.525	1.449	1.397	1.361	1.338	1.322	1.312	1.306	1.302	1.300	1.298	1.298	1.298	1.298	1.298	1.299	1.300	1.301	1.302
25	1.345	1.519	1.443	1.392	1.357	1.335	1.321	1.312	1.306	1.303	1.301	1.300	1.299	1.300	1.300	1.301	1.301	1.302	1.303	1.304
26	1.346	1.513	1.438	1.387	1.354	1.333	1.320	1.312	1.306	1.304	1.302	1.301	1.301	1.302	1.302	1.303	1.304	1.305	1.306	1.307
27	1.348	1.507	1.432	1.382	1.351	1.331	1.319	1.311	1.307	1.304	1.303	1.303	1.303	1.303	1.304	1.305	1.306	1.307	1.308	1.309
28	1.349	1.502	1.427	1.378	1.348	1.329	1.318	1.311	1.307	1.305	1.304	1.304	1.305	1.305	1.306	1.307	1.308	1.309	1.310	1.311
29	1.351	1.496	1.422	1.374	1.345	1.328	1.318	1.311	1.308	1.306	1.306	1.306	1.306	1.307	1.308	1.309	1.310	1.311	1.312	1.313
30	1.352	1.491	1.417	1.371	1.343	1.327	1.317	1.312	1.309	1.307	1.307	1.307	1.308	1.309	1.310	1.311	1.312	1.313	1.314	1.315
31	1.353	1.486	1.412	1.367	1.341	1.326	1.317	1.312	1.310	1.308	1.308	1.309	1.310	1.311	1.312	1.313	1.314	1.315	1.316	1.317
32	1.354	1.481	1.408	1.364	1.339	1.325	1.317	1.312	1.310	1.310	1.310	1.310	1.311	1.312	1.313	1.314	1.316	1.317	1.318	1.319
33	1.355	1.476	1.404	1.362	1.337	1.324	1.317	1.313	1.311	1.311	1.311	1.312	1.313	1.314	1.315	1.316	1.317	1.319	1.320	1.321
34	1.356	1.472	1.400	1.359	1.336	1.323	1.317	1.313	1.312	1.312	1.312	1.313	1.314	1.315	1.317	1.318	1.319	1.320	1.321	1.322
35	1.357	1.467	1.396	1.356	1.335	1.323	1.317	1.314	1.313	1.313	1.313	1.314	1.316	1.317	1.318	1.319	1.321	1.322	1.323	1.324
36	1.358	1.463	1.393	1.354	1.333	1.322	1.317	1.314	1.314	1.314	1.315	1.316	1.317	1.318	1.320	1.321	1.322	1.323	1.324	1.326
37	1.359	1.459	1.389	1.352	1.332	1.322	1.317	1.315	1.315	1.315	1.316	1.317	1.318	1.320	1.321	1.322	1.324	1.325	1.326	1.327
38	1.360	1.454	1.386	1.350	1.331	1.322	1.317	1.316	1.315	1.316	1.317	1.318	1.320	1.321	1.322	1.324	1.325	1.326	1.327	1.328
39	1.361	1.450	1.383	1.348	1.331	1.322	1.318	1.316	1.316	1.317	1.318	1.319	1.321	1.322	1.324	1.325	1.326	1.328	1.329	1.330
40	1.362	1.446	1.380	1.347	1.330	1.322	1.318	1.317	1.317	1.318	1.319	1.321	1.322	1.324	1.325	1.326	1.328	1.329	1.330	1.331

ตารางที่ ก.10 แรงดันผิพรองเฟส B ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิพรองต่างกันสำหรับระบบ 12 kV

kmR	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.973	1.723	1.718	1.713	1.708	1.703	1.697	1.692	1.687	1.682	1.676	1.670	1.665	1.659	1.654	1.648	1.642	1.636	1.630	1.624
1	1.054	1.720	1.713	1.707	1.700	1.694	1.687	1.680	1.673	1.666	1.659	1.651	1.644	1.637	1.629	1.622	1.614	1.607	1.599	1.591
2	1.117	1.717	1.709	1.701	1.693	1.684	1.676	1.667	1.659	1.650	1.641	1.632	1.623	1.615	1.605	1.596	1.587	1.578	1.569	1.560
3	1.162	1.714	1.705	1.695	1.685	1.675	1.665	1.655	1.645	1.635	1.624	1.614	1.603	1.593	1.583	1.572	1.562	1.551	1.541	1.531
4	1.195	1.711	1.700	1.689	1.678	1.666	1.655	1.643	1.631	1.620	1.608	1.596	1.584	1.572	1.561	1.549	1.538	1.526	1.515	1.504
5	1.220	1.708	1.696	1.683	1.670	1.657	1.644	1.631	1.618	1.605	1.592	1.578	1.566	1.553	1.540	1.528	1.516	1.503	1.492	1.480
6	1.240	1.705	1.691	1.677	1.663	1.648	1.634	1.619	1.605	1.590	1.576	1.562	1.548	1.534	1.521	1.508	1.495	1.482	1.470	1.458
7	1.256	1.702	1.687	1.671	1.655	1.639	1.623	1.608	1.592	1.576	1.561	1.546	1.531	1.517	1.503	1.489	1.476	1.463	1.451	1.438
8	1.268	1.699	1.682	1.665	1.648	1.631	1.613	1.596	1.579	1.563	1.546	1.530	1.515	1.500	1.486	1.472	1.459	1.446	1.433	1.421
9	1.279	1.696	1.678	1.659	1.641	1.622	1.603	1.585	1.567	1.550	1.533	1.516	1.500	1.485	1.470	1.456	1.443	1.430	1.418	1.406
10	1.288	1.694	1.674	1.653	1.633	1.613	1.594	1.574	1.555	1.537	1.519	1.502	1.486	1.471	1.456	1.442	1.429	1.416	1.404	1.393
11	1.295	1.691	1.669	1.648	1.626	1.605	1.584	1.564	1.544	1.525	1.507	1.489	1.473	1.457	1.443	1.429	1.416	1.403	1.392	1.381
12	1.302	1.688	1.665	1.642	1.619	1.597	1.575	1.553	1.533	1.513	1.495	1.477	1.461	1.445	1.431	1.417	1.404	1.392	1.381	1.371
13	1.308	1.685	1.660	1.636	1.612	1.588	1.565	1.543	1.522	1.502	1.484	1.466	1.449	1.434	1.420	1.406	1.394	1.382	1.372	1.362
14	1.313	1.682	1.656	1.630	1.605	1.580	1.557	1.534	1.512	1.492	1.473	1.455	1.439	1.424	1.409	1.396	1.385	1.374	1.364	1.354
15	1.317	1.679	1.652	1.625	1.598	1.573	1.548	1.524	1.503	1.482	1.463	1.445	1.429	1.414	1.400	1.388	1.377	1.366	1.357	1.348
16	1.321	1.676	1.647	1.619	1.591	1.565	1.539	1.516	1.493	1.473	1.453	1.436	1.420	1.405	1.392	1.380	1.369	1.359	1.351	1.342
17	1.325	1.673	1.643	1.613	1.585	1.557	1.531	1.507	1.484	1.464	1.445	1.427	1.412	1.397	1.385	1.373	1.363	1.353	1.345	1.337
18	1.328	1.670	1.639	1.608	1.578	1.550	1.523	1.499	1.476	1.455	1.436	1.419	1.404	1.390	1.378	1.367	1.357	1.348	1.341	1.333
19	1.331	1.667	1.635	1.602	1.572	1.543	1.516	1.491	1.468	1.447	1.429	1.412	1.397	1.384	1.372	1.361	1.352	1.344	1.336	1.330
20	1.334	1.664	1.630	1.597	1.565	1.536	1.508	1.483	1.460	1.440	1.421	1.405	1.390	1.378	1.366	1.356	1.348	1.340	1.333	1.327

ตารางที่ ก.10 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.337	1.662	1.626	1.592	1.559	1.529	1.501	1.476	1.453	1.433	1.414	1.398	1.384	1.372	1.361	1.352	1.344	1.336	1.330	1.324
22	1.339	1.659	1.622	1.586	1.553	1.522	1.494	1.469	1.446	1.426	1.408	1.392	1.379	1.367	1.357	1.348	1.340	1.333	1.328	1.322
23	1.341	1.656	1.618	1.581	1.547	1.516	1.487	1.462	1.439	1.420	1.402	1.387	1.374	1.363	1.353	1.344	1.337	1.331	1.325	1.320
24	1.343	1.653	1.614	1.576	1.541	1.509	1.481	1.455	1.433	1.414	1.397	1.382	1.369	1.359	1.349	1.341	1.335	1.329	1.324	1.319
25	1.345	1.650	1.609	1.571	1.535	1.503	1.474	1.449	1.427	1.408	1.392	1.377	1.365	1.355	1.346	1.339	1.332	1.327	1.322	1.318
26	1.346	1.647	1.605	1.566	1.530	1.497	1.468	1.443	1.422	1.403	1.387	1.373	1.361	1.352	1.343	1.336	1.330	1.325	1.321	1.317
27	1.348	1.644	1.601	1.561	1.524	1.492	1.463	1.438	1.416	1.398	1.382	1.369	1.358	1.349	1.341	1.334	1.328	1.324	1.320	1.316
28	1.349	1.642	1.597	1.556	1.519	1.486	1.457	1.432	1.411	1.393	1.378	1.365	1.355	1.346	1.338	1.332	1.327	1.323	1.319	1.316
29	1.351	1.639	1.593	1.551	1.514	1.481	1.452	1.427	1.406	1.389	1.374	1.362	1.352	1.343	1.336	1.330	1.326	1.322	1.318	1.315
30	1.352	1.636	1.589	1.547	1.509	1.475	1.447	1.422	1.402	1.385	1.371	1.359	1.349	1.341	1.335	1.329	1.325	1.321	1.318	1.315
31	1.353	1.633	1.586	1.542	1.504	1.470	1.442	1.418	1.398	1.381	1.367	1.356	1.347	1.339	1.333	1.328	1.324	1.320	1.317	1.315
32	1.354	1.630	1.582	1.537	1.499	1.465	1.437	1.413	1.394	1.378	1.364	1.353	1.345	1.337	1.332	1.327	1.323	1.320	1.317	1.315
33	1.355	1.627	1.578	1.533	1.494	1.461	1.432	1.409	1.390	1.374	1.362	1.351	1.343	1.336	1.330	1.326	1.322	1.319	1.317	1.315
34	1.356	1.625	1.574	1.529	1.489	1.456	1.428	1.405	1.386	1.371	1.359	1.349	1.341	1.334	1.329	1.325	1.322	1.319	1.317	1.315
35	1.357	1.622	1.570	1.524	1.485	1.451	1.424	1.401	1.383	1.368	1.356	1.347	1.339	1.333	1.328	1.324	1.321	1.319	1.317	1.316
36	1.358	1.619	1.567	1.520	1.480	1.447	1.420	1.398	1.380	1.366	1.354	1.345	1.338	1.332	1.328	1.324	1.321	1.319	1.317	1.316
37	1.359	1.616	1.563	1.516	1.476	1.443	1.416	1.394	1.377	1.363	1.352	1.343	1.337	1.331	1.327	1.324	1.321	1.319	1.317	1.316
38	1.360	1.614	1.559	1.512	1.472	1.439	1.412	1.391	1.374	1.361	1.350	1.342	1.335	1.330	1.326	1.323	1.321	1.319	1.318	1.317
39	1.361	1.611	1.556	1.508	1.468	1.435	1.409	1.388	1.371	1.358	1.348	1.340	1.334	1.330	1.326	1.323	1.321	1.319	1.318	1.317
40	1.362	1.608	1.552	1.504	1.464	1.431	1.405	1.385	1.369	1.356	1.347	1.339	1.333	1.329	1.325	1.323	1.321	1.319	1.318	1.318

ตารางที่ ก.11 แรงดันผิดพลาดเฟส B ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 24 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.973	1.713	1.703	1.692	1.681	1.671	1.659	1.648	1.636	1.624	1.612	1.600	1.587	1.575	1.562	1.549	1.536	1.523	1.510	1.497
1	1.054	1.707	1.694	1.680	1.666	1.651	1.637	1.622	1.607	1.591	1.576	1.560	1.545	1.529	1.513	1.498	1.482	1.467	1.451	1.436
2	1.117	1.701	1.684	1.667	1.650	1.632	1.614	1.596	1.578	1.560	1.542	1.524	1.506	1.488	1.471	1.453	1.436	1.420	1.404	1.388
3	1.162	1.695	1.675	1.655	1.635	1.614	1.593	1.572	1.551	1.531	1.511	1.491	1.472	1.453	1.434	1.417	1.399	1.383	1.367	1.352
4	1.195	1.689	1.666	1.643	1.619	1.596	1.572	1.549	1.526	1.504	1.483	1.462	1.442	1.423	1.404	1.387	1.370	1.354	1.339	1.326
5	1.220	1.683	1.657	1.631	1.605	1.578	1.553	1.528	1.503	1.480	1.458	1.436	1.416	1.397	1.380	1.363	1.347	1.333	1.319	1.307
6	1.240	1.677	1.648	1.619	1.590	1.562	1.534	1.508	1.482	1.458	1.436	1.414	1.395	1.376	1.360	1.344	1.330	1.316	1.304	1.293
7	1.256	1.671	1.639	1.608	1.576	1.546	1.517	1.489	1.463	1.439	1.416	1.396	1.377	1.359	1.344	1.329	1.316	1.304	1.294	1.284
8	1.268	1.665	1.631	1.596	1.563	1.530	1.500	1.472	1.446	1.422	1.400	1.380	1.362	1.346	1.331	1.318	1.306	1.296	1.287	1.278
9	1.279	1.659	1.622	1.585	1.550	1.516	1.485	1.456	1.430	1.406	1.385	1.366	1.349	1.334	1.321	1.309	1.299	1.290	1.282	1.275
10	1.288	1.653	1.613	1.574	1.537	1.502	1.470	1.442	1.416	1.393	1.373	1.355	1.339	1.325	1.313	1.303	1.294	1.286	1.279	1.273
11	1.295	1.648	1.605	1.564	1.525	1.489	1.457	1.429	1.403	1.381	1.362	1.345	1.331	1.318	1.308	1.298	1.290	1.284	1.278	1.273
12	1.302	1.642	1.597	1.553	1.513	1.477	1.445	1.417	1.392	1.371	1.353	1.337	1.324	1.313	1.303	1.295	1.288	1.282	1.277	1.273
13	1.308	1.636	1.588	1.543	1.502	1.466	1.434	1.406	1.382	1.362	1.345	1.331	1.319	1.309	1.300	1.293	1.287	1.282	1.278	1.274
14	1.313	1.630	1.580	1.534	1.492	1.455	1.423	1.396	1.374	1.355	1.339	1.326	1.315	1.305	1.298	1.292	1.286	1.282	1.279	1.276
15	1.317	1.625	1.572	1.524	1.482	1.445	1.414	1.388	1.366	1.348	1.333	1.321	1.311	1.303	1.296	1.291	1.287	1.283	1.280	1.278
16	1.321	1.619	1.565	1.516	1.473	1.436	1.405	1.380	1.359	1.342	1.329	1.318	1.309	1.301	1.296	1.291	1.287	1.284	1.282	1.280
17	1.325	1.613	1.557	1.507	1.464	1.427	1.397	1.373	1.353	1.338	1.325	1.315	1.307	1.300	1.295	1.291	1.288	1.285	1.283	1.282
18	1.328	1.608	1.550	1.499	1.455	1.419	1.390	1.367	1.348	1.333	1.322	1.313	1.305	1.300	1.295	1.292	1.289	1.287	1.285	1.284
19	1.331	1.602	1.543	1.491	1.447	1.412	1.384	1.361	1.344	1.330	1.319	1.311	1.304	1.299	1.295	1.292	1.290	1.289	1.287	1.286
20	1.334	1.597	1.536	1.483	1.440	1.405	1.378	1.356	1.340	1.327	1.317	1.310	1.304	1.299	1.296	1.293	1.292	1.290	1.289	1.289

ตารางที่ ก.11 (ต่อ)

kmR	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.337	1.592	1.529	1.476	1.432	1.398	1.372	1.352	1.336	1.324	1.315	1.309	1.303	1.300	1.297	1.295	1.293	1.292	1.291	1.291
22	1.339	1.586	1.522	1.469	1.426	1.393	1.367	1.348	1.333	1.322	1.314	1.308	1.303	1.300	1.298	1.296	1.295	1.294	1.293	1.293
23	1.341	1.581	1.516	1.462	1.419	1.387	1.363	1.344	1.331	1.321	1.313	1.308	1.304	1.301	1.299	1.297	1.296	1.296	1.296	1.296
24	1.343	1.576	1.509	1.455	1.414	1.382	1.359	1.341	1.329	1.319	1.312	1.307	1.304	1.301	1.300	1.299	1.298	1.298	1.298	1.298
25	1.345	1.571	1.503	1.449	1.408	1.377	1.355	1.339	1.327	1.318	1.312	1.307	1.304	1.302	1.301	1.300	1.300	1.299	1.299	1.300
26	1.346	1.566	1.497	1.443	1.403	1.373	1.352	1.336	1.325	1.317	1.312	1.308	1.305	1.303	1.302	1.301	1.301	1.301	1.301	1.302
27	1.348	1.561	1.491	1.438	1.398	1.369	1.349	1.334	1.324	1.316	1.311	1.308	1.306	1.304	1.303	1.303	1.303	1.303	1.303	1.304
28	1.349	1.556	1.486	1.432	1.393	1.365	1.346	1.332	1.323	1.316	1.311	1.308	1.306	1.305	1.305	1.304	1.304	1.305	1.305	1.306
29	1.351	1.551	1.480	1.427	1.389	1.362	1.343	1.330	1.322	1.316	1.311	1.309	1.307	1.306	1.306	1.306	1.306	1.306	1.307	1.308
30	1.352	1.547	1.475	1.422	1.385	1.359	1.341	1.329	1.321	1.315	1.312	1.309	1.308	1.307	1.307	1.307	1.308	1.308	1.309	1.309
31	1.353	1.542	1.470	1.418	1.381	1.356	1.339	1.328	1.320	1.315	1.312	1.310	1.309	1.308	1.308	1.309	1.309	1.310	1.310	1.311
32	1.354	1.537	1.465	1.413	1.378	1.354	1.337	1.327	1.320	1.315	1.312	1.311	1.310	1.310	1.310	1.310	1.311	1.311	1.312	1.313
33	1.355	1.533	1.460	1.409	1.374	1.351	1.336	1.326	1.319	1.315	1.313	1.311	1.311	1.311	1.311	1.311	1.312	1.313	1.314	1.314
34	1.356	1.529	1.456	1.405	1.371	1.349	1.334	1.325	1.319	1.315	1.313	1.312	1.312	1.312	1.312	1.313	1.313	1.314	1.315	1.316
35	1.357	1.524	1.451	1.401	1.368	1.347	1.333	1.324	1.319	1.316	1.314	1.313	1.313	1.313	1.313	1.314	1.315	1.316	1.317	1.317
36	1.358	1.520	1.447	1.398	1.366	1.345	1.332	1.324	1.319	1.316	1.314	1.314	1.314	1.314	1.315	1.315	1.316	1.317	1.318	1.319
37	1.359	1.516	1.443	1.394	1.363	1.343	1.331	1.324	1.319	1.316	1.315	1.315	1.315	1.315	1.316	1.317	1.317	1.318	1.319	1.320
38	1.360	1.512	1.439	1.391	1.361	1.342	1.330	1.323	1.319	1.317	1.316	1.315	1.316	1.316	1.317	1.318	1.319	1.320	1.321	1.322
39	1.361	1.508	1.435	1.388	1.358	1.340	1.329	1.323	1.319	1.317	1.316	1.316	1.317	1.317	1.318	1.319	1.320	1.321	1.322	1.323
40	1.362	1.504	1.431	1.385	1.356	1.339	1.329	1.323	1.319	1.318	1.317	1.317	1.317	1.318	1.319	1.320	1.321	1.322	1.323	1.324

ตารางที่ ก.12 แรงดันผิดพลาดเฟส B ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 3 kV

km/R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.973	1.730	1.729	1.727	1.726	1.725	1.724	1.723	1.721	1.720	1.719	1.718	1.716	1.715	1.714	1.713	1.711	1.710	1.709	1.708
1	1.054	1.729	1.727	1.726	1.724	1.723	1.721	1.720	1.718	1.716	1.715	1.713	1.712	1.710	1.708	1.707	1.705	1.704	1.702	1.700
2	1.117	1.728	1.726	1.725	1.723	1.721	1.719	1.717	1.715	1.713	1.711	1.709	1.707	1.705	1.703	1.701	1.699	1.697	1.695	1.693
3	1.162	1.728	1.725	1.723	1.721	1.719	1.716	1.714	1.712	1.709	1.707	1.704	1.702	1.700	1.697	1.695	1.693	1.690	1.688	1.685
4	1.195	1.727	1.724	1.722	1.719	1.716	1.714	1.711	1.708	1.706	1.703	1.700	1.697	1.695	1.692	1.689	1.686	1.683	1.681	1.678
5	1.220	1.726	1.723	1.720	1.717	1.714	1.711	1.708	1.705	1.702	1.699	1.696	1.692	1.690	1.686	1.683	1.680	1.677	1.673	1.670
6	1.240	1.725	1.722	1.719	1.715	1.712	1.709	1.705	1.702	1.698	1.695	1.691	1.688	1.684	1.681	1.677	1.674	1.670	1.666	1.663
7	1.256	1.725	1.721	1.717	1.714	1.710	1.706	1.702	1.698	1.695	1.691	1.687	1.683	1.679	1.675	1.671	1.667	1.663	1.659	1.655
8	1.268	1.724	1.720	1.716	1.712	1.708	1.704	1.699	1.695	1.691	1.687	1.682	1.678	1.674	1.670	1.665	1.661	1.657	1.652	1.648
9	1.279	1.723	1.719	1.715	1.710	1.706	1.701	1.697	1.692	1.687	1.683	1.678	1.673	1.669	1.664	1.659	1.655	1.650	1.645	1.641
10	1.288	1.723	1.718	1.713	1.708	1.703	1.698	1.694	1.688	1.684	1.678	1.673	1.668	1.664	1.659	1.653	1.648	1.643	1.638	1.633
11	1.295	1.722	1.717	1.712	1.706	1.701	1.696	1.691	1.685	1.680	1.674	1.669	1.664	1.659	1.653	1.647	1.642	1.637	1.631	1.626
12	1.302	1.721	1.716	1.710	1.705	1.699	1.693	1.688	1.682	1.676	1.670	1.665	1.659	1.654	1.648	1.642	1.636	1.630	1.625	1.619
13	1.308	1.721	1.715	1.709	1.703	1.697	1.691	1.685	1.679	1.673	1.666	1.660	1.654	1.648	1.642	1.636	1.630	1.624	1.618	1.612
14	1.313	1.720	1.714	1.707	1.701	1.695	1.688	1.682	1.675	1.669	1.662	1.656	1.649	1.643	1.637	1.630	1.624	1.618	1.611	1.605
15	1.317	1.719	1.713	1.706	1.699	1.693	1.686	1.679	1.672	1.665	1.658	1.652	1.645	1.638	1.631	1.624	1.618	1.611	1.605	1.598
16	1.321	1.718	1.711	1.704	1.697	1.690	1.683	1.676	1.669	1.662	1.654	1.647	1.640	1.633	1.626	1.619	1.612	1.605	1.598	1.591
17	1.325	1.718	1.710	1.703	1.696	1.688	1.681	1.673	1.665	1.658	1.650	1.643	1.635	1.628	1.621	1.613	1.606	1.599	1.592	1.585
18	1.328	1.717	1.709	1.702	1.694	1.686	1.678	1.670	1.662	1.654	1.646	1.639	1.631	1.623	1.616	1.608	1.600	1.593	1.585	1.578
19	1.331	1.716	1.708	1.700	1.692	1.684	1.675	1.667	1.659	1.651	1.642	1.634	1.626	1.619	1.610	1.602	1.595	1.587	1.579	1.572
20	1.334	1.716	1.707	1.699	1.690	1.682	1.673	1.665	1.656	1.647	1.638	1.630	1.622	1.614	1.605	1.597	1.589	1.581	1.573	1.565

ตารางที่ ก.12 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.337	1.715	1.706	1.697	1.688	1.680	1.670	1.662	1.652	1.644	1.635	1.626	1.617	1.609	1.600	1.591	1.583	1.575	1.567	1.559
22	1.339	1.714	1.705	1.696	1.687	1.677	1.668	1.659	1.649	1.640	1.631	1.622	1.613	1.604	1.595	1.586	1.578	1.569	1.561	1.553
23	1.341	1.713	1.704	1.694	1.685	1.675	1.665	1.656	1.646	1.636	1.627	1.617	1.608	1.599	1.590	1.581	1.572	1.564	1.555	1.547
24	1.343	1.713	1.703	1.693	1.683	1.673	1.663	1.653	1.643	1.633	1.623	1.613	1.604	1.595	1.585	1.576	1.567	1.558	1.550	1.541
25	1.345	1.712	1.702	1.691	1.681	1.671	1.660	1.650	1.640	1.629	1.619	1.609	1.599	1.590	1.580	1.571	1.562	1.553	1.544	1.535
26	1.346	1.711	1.701	1.690	1.679	1.669	1.658	1.647	1.636	1.626	1.615	1.605	1.595	1.586	1.576	1.566	1.557	1.547	1.538	1.530
27	1.348	1.711	1.700	1.689	1.677	1.667	1.655	1.645	1.633	1.622	1.612	1.601	1.591	1.581	1.571	1.561	1.551	1.542	1.533	1.524
28	1.349	1.710	1.699	1.687	1.676	1.664	1.653	1.642	1.630	1.619	1.608	1.597	1.586	1.577	1.566	1.556	1.546	1.537	1.528	1.519
29	1.351	1.709	1.697	1.686	1.674	1.662	1.650	1.639	1.627	1.616	1.604	1.593	1.582	1.572	1.561	1.551	1.542	1.532	1.523	1.514
30	1.352	1.708	1.696	1.684	1.672	1.660	1.648	1.636	1.624	1.612	1.600	1.589	1.578	1.568	1.557	1.546	1.537	1.527	1.518	1.508
31	1.353	1.708	1.695	1.683	1.670	1.658	1.645	1.633	1.621	1.609	1.597	1.585	1.574	1.564	1.552	1.542	1.532	1.522	1.513	1.503
32	1.354	1.707	1.694	1.681	1.668	1.656	1.643	1.630	1.618	1.605	1.593	1.581	1.570	1.559	1.548	1.537	1.527	1.517	1.508	1.499
33	1.355	1.706	1.693	1.680	1.667	1.654	1.640	1.628	1.614	1.602	1.589	1.578	1.566	1.555	1.544	1.533	1.523	1.513	1.503	1.494
34	1.356	1.706	1.692	1.678	1.665	1.651	1.638	1.625	1.611	1.599	1.586	1.574	1.562	1.551	1.539	1.528	1.518	1.508	1.498	1.489
35	1.357	1.705	1.691	1.677	1.663	1.649	1.635	1.622	1.608	1.595	1.582	1.570	1.558	1.547	1.535	1.524	1.514	1.504	1.494	1.485
36	1.358	1.704	1.690	1.676	1.661	1.647	1.633	1.619	1.605	1.592	1.579	1.566	1.554	1.543	1.531	1.520	1.509	1.499	1.490	1.480
37	1.359	1.703	1.689	1.674	1.659	1.645	1.630	1.617	1.602	1.589	1.575	1.563	1.550	1.539	1.527	1.515	1.505	1.495	1.485	1.476
38	1.360	1.703	1.688	1.673	1.658	1.643	1.628	1.614	1.599	1.586	1.572	1.559	1.546	1.535	1.523	1.511	1.501	1.491	1.481	1.472
39	1.361	1.702	1.687	1.671	1.656	1.641	1.626	1.611	1.596	1.582	1.569	1.555	1.543	1.531	1.519	1.507	1.497	1.487	1.477	1.468
40	1.362	1.701	1.686	1.670	1.654	1.639	1.623	1.609	1.593	1.579	1.565	1.552	1.539	1.527	1.515	1.503	1.493	1.483	1.473	1.464

ตารางที่ ก.13 แรงดันผิดพลาดเฟส B ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 6 kV

km \R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.973	1.727	1.725	1.723	1.720	1.718	1.715	1.713	1.710	1.708	1.705	1.703	1.700	1.697	1.695	1.692	1.690	1.687	1.684	1.681
1	1.054	1.726	1.723	1.720	1.717	1.713	1.710	1.707	1.704	1.700	1.697	1.694	1.690	1.687	1.683	1.680	1.676	1.673	1.669	1.666
2	1.117	1.725	1.721	1.717	1.713	1.709	1.705	1.701	1.697	1.693	1.689	1.684	1.680	1.676	1.672	1.668	1.663	1.659	1.654	1.650
3	1.162	1.723	1.719	1.714	1.709	1.705	1.700	1.695	1.690	1.685	1.680	1.675	1.670	1.665	1.660	1.655	1.650	1.645	1.640	1.635
4	1.195	1.722	1.716	1.711	1.706	1.700	1.695	1.689	1.683	1.678	1.672	1.666	1.660	1.655	1.649	1.643	1.637	1.631	1.625	1.619
5	1.220	1.720	1.714	1.708	1.702	1.696	1.689	1.683	1.677	1.670	1.664	1.657	1.651	1.644	1.638	1.631	1.625	1.618	1.611	1.605
6	1.240	1.719	1.712	1.705	1.698	1.691	1.684	1.677	1.670	1.663	1.656	1.648	1.641	1.634	1.626	1.619	1.612	1.604	1.597	1.590
7	1.256	1.717	1.710	1.702	1.695	1.687	1.679	1.671	1.663	1.655	1.647	1.639	1.631	1.623	1.616	1.608	1.600	1.591	1.584	1.576
8	1.268	1.716	1.708	1.699	1.691	1.682	1.674	1.665	1.657	1.648	1.639	1.631	1.622	1.613	1.605	1.596	1.588	1.579	1.571	1.562
9	1.279	1.715	1.706	1.696	1.687	1.678	1.669	1.659	1.650	1.640	1.631	1.622	1.612	1.603	1.594	1.585	1.576	1.567	1.558	1.549
10	1.288	1.713	1.703	1.694	1.684	1.674	1.664	1.653	1.643	1.633	1.623	1.613	1.603	1.593	1.584	1.575	1.565	1.555	1.546	1.537
11	1.295	1.712	1.701	1.691	1.680	1.669	1.658	1.648	1.637	1.626	1.615	1.605	1.594	1.584	1.574	1.564	1.554	1.543	1.534	1.525
12	1.302	1.710	1.699	1.688	1.676	1.665	1.653	1.642	1.630	1.619	1.608	1.597	1.585	1.574	1.564	1.554	1.543	1.532	1.523	1.513
13	1.308	1.709	1.697	1.685	1.673	1.660	1.648	1.636	1.624	1.612	1.600	1.588	1.577	1.565	1.554	1.544	1.533	1.522	1.512	1.502
14	1.313	1.707	1.695	1.682	1.669	1.656	1.643	1.630	1.618	1.605	1.593	1.580	1.568	1.556	1.545	1.534	1.523	1.512	1.502	1.492
15	1.317	1.706	1.693	1.679	1.665	1.652	1.638	1.625	1.611	1.598	1.585	1.573	1.560	1.548	1.536	1.525	1.514	1.502	1.492	1.482
16	1.321	1.704	1.690	1.676	1.662	1.647	1.633	1.619	1.605	1.591	1.578	1.565	1.552	1.539	1.527	1.516	1.504	1.493	1.482	1.472
17	1.325	1.703	1.688	1.673	1.658	1.643	1.628	1.613	1.599	1.585	1.571	1.557	1.544	1.531	1.519	1.507	1.496	1.484	1.473	1.463
18	1.328	1.702	1.686	1.670	1.654	1.639	1.623	1.608	1.593	1.578	1.564	1.550	1.536	1.523	1.511	1.499	1.487	1.475	1.465	1.455
19	1.331	1.700	1.684	1.667	1.651	1.634	1.618	1.602	1.587	1.571	1.557	1.543	1.528	1.515	1.503	1.491	1.479	1.467	1.457	1.447
20	1.334	1.699	1.682	1.664	1.647	1.630	1.614	1.597	1.581	1.565	1.550	1.536	1.521	1.508	1.495	1.483	1.471	1.460	1.449	1.439

ตารางที่ ก.13 (ต่อ)

kmR	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.337	1.697	1.679	1.662	1.644	1.626	1.609	1.592	1.575	1.559	1.544	1.529	1.514	1.501	1.488	1.476	1.464	1.452	1.442	1.432
22	1.339	1.696	1.677	1.659	1.640	1.622	1.604	1.586	1.569	1.553	1.537	1.522	1.507	1.494	1.481	1.469	1.457	1.445	1.435	1.426
23	1.341	1.694	1.675	1.656	1.637	1.618	1.599	1.581	1.564	1.547	1.531	1.516	1.501	1.487	1.474	1.462	1.450	1.439	1.429	1.419
24	1.343	1.693	1.673	1.653	1.633	1.613	1.595	1.576	1.558	1.541	1.525	1.509	1.494	1.480	1.468	1.456	1.444	1.433	1.423	1.413
25	1.345	1.691	1.671	1.650	1.630	1.609	1.590	1.571	1.553	1.535	1.519	1.503	1.488	1.474	1.461	1.450	1.438	1.427	1.417	1.408
26	1.346	1.690	1.669	1.647	1.626	1.605	1.585	1.566	1.547	1.530	1.513	1.497	1.482	1.468	1.455	1.444	1.432	1.421	1.411	1.403
27	1.348	1.689	1.666	1.644	1.623	1.601	1.581	1.561	1.542	1.524	1.507	1.492	1.476	1.462	1.450	1.438	1.427	1.416	1.406	1.398
28	1.349	1.687	1.664	1.642	1.619	1.597	1.576	1.556	1.537	1.519	1.502	1.486	1.471	1.457	1.444	1.433	1.422	1.411	1.402	1.393
29	1.351	1.686	1.662	1.639	1.616	1.593	1.572	1.551	1.532	1.513	1.496	1.481	1.465	1.451	1.439	1.428	1.417	1.406	1.397	1.389
30	1.352	1.684	1.660	1.636	1.612	1.589	1.568	1.547	1.527	1.508	1.491	1.475	1.460	1.446	1.434	1.423	1.412	1.402	1.393	1.385
31	1.353	1.683	1.658	1.633	1.609	1.585	1.563	1.542	1.522	1.503	1.486	1.470	1.455	1.441	1.429	1.418	1.407	1.397	1.389	1.381
32	1.354	1.681	1.656	1.630	1.606	1.582	1.559	1.537	1.517	1.498	1.481	1.465	1.450	1.437	1.425	1.414	1.403	1.393	1.385	1.377
33	1.355	1.680	1.654	1.627	1.602	1.578	1.555	1.533	1.513	1.494	1.476	1.461	1.445	1.432	1.420	1.409	1.399	1.390	1.381	1.374
34	1.356	1.678	1.651	1.625	1.599	1.574	1.551	1.529	1.508	1.489	1.472	1.456	1.441	1.428	1.416	1.405	1.395	1.386	1.378	1.371
35	1.357	1.677	1.649	1.622	1.596	1.570	1.547	1.524	1.504	1.484	1.467	1.451	1.437	1.423	1.412	1.402	1.392	1.383	1.375	1.368
36	1.358	1.676	1.647	1.619	1.592	1.567	1.543	1.520	1.499	1.480	1.463	1.447	1.432	1.419	1.408	1.398	1.388	1.379	1.372	1.365
37	1.359	1.674	1.645	1.616	1.589	1.563	1.539	1.516	1.495	1.476	1.459	1.443	1.428	1.416	1.404	1.395	1.385	1.377	1.369	1.363
38	1.360	1.673	1.643	1.614	1.586	1.559	1.535	1.512	1.491	1.471	1.454	1.439	1.424	1.412	1.401	1.391	1.382	1.374	1.367	1.361
39	1.361	1.671	1.641	1.611	1.583	1.556	1.531	1.508	1.487	1.467	1.450	1.435	1.421	1.408	1.398	1.388	1.379	1.371	1.364	1.358
40	1.362	1.670	1.639	1.608	1.579	1.552	1.527	1.504	1.483	1.463	1.447	1.431	1.417	1.405	1.394	1.385	1.377	1.369	1.362	1.356

ตารางที่ ก.14 แรงดันผิดพลาดเฟส C ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 22 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	
0	0.946	1.746	1.752	1.759	1.764	1.770	1.775	1.780	1.785	1.789	1.793	1.796	1.800	1.803	1.805	1.808	1.810	1.812	1.813	1.814	
1	1.047	1.746	1.752	1.757	1.762	1.766	1.770	1.773	1.776	1.778	1.780	1.781	1.782	1.782	1.782	1.781	1.780	1.779	1.777	1.775	
2	1.102	1.745	1.751	1.755	1.759	1.762	1.764	1.765	1.766	1.765	1.765	1.765	1.763	1.761	1.759	1.756	1.752	1.749	1.744	1.740	1.735
3	1.135	1.745	1.750	1.753	1.755	1.756	1.757	1.756	1.754	1.752	1.748	1.744	1.740	1.735	1.729	1.723	1.717	1.711	1.704	1.697	
4	1.159	1.744	1.748	1.750	1.751	1.750	1.749	1.746	1.742	1.737	1.731	1.725	1.718	1.711	1.703	1.695	1.687	1.678	1.670	1.661	
5	1.175	1.744	1.746	1.747	1.746	1.744	1.740	1.735	1.729	1.721	1.714	1.705	1.696	1.687	1.678	1.668	1.658	1.648	1.639	1.629	
6	1.188	1.743	1.745	1.744	1.741	1.737	1.731	1.723	1.715	1.706	1.696	1.686	1.675	1.664	1.653	1.643	1.632	1.621	1.610	1.600	
7	1.198	1.742	1.743	1.740	1.736	1.729	1.721	1.712	1.701	1.690	1.679	1.667	1.655	1.643	1.631	1.619	1.607	1.596	1.585	1.574	
8	1.206	1.741	1.740	1.736	1.730	1.722	1.711	1.700	1.688	1.675	1.662	1.649	1.635	1.622	1.610	1.597	1.585	1.573	1.562	1.551	
9	1.212	1.740	1.738	1.732	1.724	1.714	1.701	1.688	1.674	1.660	1.646	1.631	1.617	1.603	1.590	1.577	1.564	1.553	1.541	1.530	
10	1.217	1.739	1.735	1.728	1.718	1.705	1.691	1.677	1.661	1.645	1.630	1.615	1.600	1.585	1.572	1.559	1.546	1.534	1.523	1.512	
11	1.222	1.738	1.733	1.723	1.711	1.697	1.681	1.665	1.648	1.631	1.615	1.599	1.584	1.569	1.555	1.542	1.529	1.517	1.506	1.495	
12	1.226	1.736	1.730	1.719	1.705	1.689	1.671	1.653	1.635	1.618	1.601	1.584	1.569	1.554	1.540	1.526	1.514	1.502	1.491	1.481	
13	1.229	1.735	1.727	1.714	1.698	1.680	1.661	1.642	1.623	1.605	1.587	1.570	1.554	1.539	1.525	1.512	1.500	1.489	1.478	1.468	
14	1.232	1.733	1.724	1.709	1.691	1.672	1.652	1.631	1.611	1.592	1.574	1.557	1.541	1.526	1.512	1.499	1.487	1.476	1.466	1.456	
15	1.235	1.732	1.720	1.704	1.684	1.663	1.642	1.621	1.600	1.581	1.562	1.545	1.529	1.514	1.500	1.488	1.476	1.465	1.455	1.445	
16	1.238	1.730	1.717	1.699	1.678	1.655	1.633	1.610	1.589	1.569	1.551	1.534	1.518	1.503	1.489	1.477	1.465	1.455	1.445	1.436	
17	1.240	1.729	1.714	1.694	1.671	1.647	1.623	1.601	1.579	1.559	1.540	1.523	1.507	1.492	1.479	1.467	1.456	1.446	1.436	1.427	
18	1.242	1.727	1.710	1.688	1.664	1.639	1.614	1.591	1.569	1.549	1.530	1.513	1.497	1.483	1.470	1.458	1.447	1.437	1.428	1.419	
19	1.243	1.725	1.707	1.683	1.657	1.631	1.606	1.582	1.559	1.539	1.520	1.503	1.488	1.474	1.461	1.450	1.439	1.429	1.420	1.412	
20	1.245	1.723	1.703	1.678	1.651	1.623	1.597	1.573	1.550	1.530	1.511	1.494	1.479	1.465	1.453	1.442	1.431	1.422	1.414	1.406	

ตารางที่ ก.14 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.246	1.721	1.699	1.672	1.644	1.616	1.589	1.564	1.542	1.521	1.503	1.486	1.471	1.458	1.446	1.435	1.424	1.415	1.407	1.399
22	1.248	1.719	1.696	1.667	1.637	1.608	1.581	1.556	1.533	1.513	1.495	1.478	1.464	1.450	1.439	1.428	1.418	1.409	1.401	1.394
23	1.249	1.717	1.692	1.662	1.631	1.601	1.573	1.548	1.525	1.505	1.487	1.471	1.457	1.444	1.432	1.422	1.412	1.404	1.396	1.389
24	1.250	1.715	1.688	1.657	1.624	1.594	1.566	1.541	1.518	1.498	1.480	1.464	1.450	1.437	1.426	1.416	1.407	1.399	1.391	1.384
25	1.251	1.713	1.684	1.651	1.618	1.587	1.559	1.533	1.511	1.491	1.473	1.458	1.444	1.431	1.420	1.411	1.402	1.394	1.386	1.380
26	1.252	1.711	1.680	1.646	1.612	1.580	1.552	1.526	1.504	1.484	1.467	1.451	1.438	1.426	1.415	1.406	1.397	1.389	1.382	1.376
27	1.253	1.709	1.676	1.641	1.606	1.574	1.545	1.520	1.497	1.478	1.461	1.446	1.432	1.421	1.410	1.401	1.392	1.385	1.378	1.372
28	1.254	1.706	1.673	1.636	1.600	1.568	1.539	1.513	1.491	1.472	1.455	1.440	1.427	1.416	1.406	1.397	1.388	1.381	1.374	1.368
29	1.254	1.704	1.669	1.631	1.594	1.561	1.532	1.507	1.485	1.466	1.450	1.435	1.422	1.411	1.401	1.392	1.384	1.377	1.371	1.365
30	1.255	1.702	1.665	1.626	1.589	1.555	1.526	1.501	1.479	1.461	1.444	1.430	1.418	1.407	1.397	1.389	1.381	1.374	1.368	1.362
31	1.256	1.699	1.661	1.621	1.583	1.550	1.521	1.495	1.474	1.455	1.439	1.425	1.413	1.403	1.393	1.385	1.377	1.371	1.365	1.359
32	1.256	1.697	1.657	1.616	1.578	1.544	1.515	1.490	1.469	1.450	1.435	1.421	1.409	1.399	1.390	1.381	1.374	1.368	1.362	1.356
33	1.257	1.695	1.653	1.611	1.572	1.538	1.509	1.485	1.464	1.446	1.430	1.417	1.405	1.395	1.386	1.378	1.371	1.365	1.359	1.354
34	1.258	1.692	1.649	1.606	1.567	1.533	1.504	1.480	1.459	1.441	1.426	1.413	1.402	1.392	1.383	1.375	1.368	1.362	1.357	1.351
35	1.258	1.690	1.645	1.601	1.562	1.528	1.499	1.475	1.454	1.437	1.422	1.409	1.398	1.388	1.380	1.372	1.366	1.360	1.354	1.349
36	1.259	1.687	1.642	1.597	1.557	1.523	1.494	1.470	1.450	1.433	1.418	1.406	1.395	1.385	1.377	1.370	1.363	1.357	1.352	1.347
37	1.259	1.685	1.638	1.592	1.552	1.518	1.490	1.466	1.446	1.429	1.415	1.402	1.392	1.382	1.374	1.367	1.361	1.355	1.350	1.345
38	1.260	1.682	1.634	1.588	1.547	1.513	1.485	1.462	1.442	1.425	1.411	1.399	1.389	1.379	1.372	1.364	1.358	1.353	1.348	1.343
39	1.260	1.680	1.630	1.583	1.543	1.509	1.481	1.457	1.438	1.422	1.408	1.396	1.386	1.377	1.369	1.362	1.356	1.351	1.346	1.341
40	1.261	1.677	1.627	1.579	1.538	1.504	1.477	1.453	1.434	1.418	1.405	1.393	1.383	1.374	1.367	1.360	1.354	1.349	1.344	1.340

ตารางที่ ก.15 แรงดันผิดพลาดเฟส C ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 33 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.946	1.752	1.761	1.770	1.778	1.785	1.791	1.796	1.801	1.805	1.809	1.812	1.814	1.815	1.816	1.817	1.817	1.816	1.815	1.813
1	1.047	1.752	1.760	1.766	1.772	1.776	1.779	1.781	1.782	1.782	1.781	1.779	1.776	1.773	1.769	1.764	1.759	1.753	1.747	1.740
2	1.102	1.751	1.757	1.762	1.764	1.766	1.765	1.763	1.760	1.756	1.751	1.744	1.738	1.730	1.722	1.713	1.704	1.695	1.686	1.676
3	1.135	1.750	1.754	1.756	1.756	1.754	1.750	1.744	1.737	1.729	1.720	1.711	1.700	1.690	1.679	1.667	1.656	1.645	1.633	1.622
4	1.159	1.748	1.751	1.750	1.747	1.742	1.734	1.725	1.714	1.703	1.691	1.678	1.666	1.653	1.640	1.627	1.614	1.601	1.589	1.578
5	1.175	1.746	1.747	1.744	1.737	1.729	1.718	1.705	1.692	1.678	1.663	1.648	1.634	1.619	1.605	1.591	1.578	1.565	1.553	1.541
6	1.188	1.745	1.743	1.737	1.727	1.715	1.701	1.686	1.670	1.653	1.637	1.621	1.605	1.590	1.575	1.561	1.547	1.534	1.522	1.510
7	1.198	1.743	1.738	1.729	1.717	1.702	1.685	1.667	1.649	1.631	1.613	1.596	1.579	1.563	1.548	1.534	1.521	1.508	1.496	1.485
8	1.206	1.740	1.734	1.722	1.706	1.688	1.669	1.649	1.629	1.609	1.591	1.573	1.556	1.540	1.525	1.511	1.498	1.486	1.474	1.464
9	1.212	1.738	1.728	1.714	1.695	1.674	1.653	1.631	1.610	1.590	1.571	1.552	1.536	1.520	1.505	1.491	1.479	1.467	1.456	1.446
10	1.217	1.735	1.723	1.705	1.684	1.661	1.638	1.615	1.593	1.572	1.552	1.534	1.517	1.502	1.487	1.474	1.462	1.450	1.440	1.430
11	1.222	1.733	1.718	1.697	1.673	1.648	1.623	1.599	1.576	1.555	1.535	1.517	1.501	1.485	1.471	1.459	1.447	1.436	1.426	1.417
12	1.226	1.730	1.712	1.689	1.662	1.635	1.609	1.584	1.561	1.540	1.520	1.502	1.486	1.471	1.458	1.445	1.434	1.424	1.415	1.406
13	1.229	1.727	1.706	1.680	1.652	1.623	1.596	1.570	1.547	1.525	1.506	1.489	1.473	1.458	1.445	1.434	1.423	1.413	1.404	1.396
14	1.232	1.724	1.700	1.672	1.641	1.611	1.583	1.557	1.534	1.512	1.493	1.476	1.461	1.447	1.434	1.423	1.413	1.404	1.395	1.388
15	1.235	1.720	1.694	1.663	1.631	1.600	1.571	1.545	1.521	1.500	1.482	1.465	1.450	1.437	1.425	1.414	1.404	1.395	1.387	1.380
16	1.238	1.717	1.688	1.655	1.621	1.589	1.560	1.534	1.510	1.489	1.471	1.455	1.440	1.427	1.416	1.406	1.396	1.388	1.380	1.373
17	1.240	1.714	1.682	1.647	1.612	1.579	1.549	1.523	1.500	1.479	1.461	1.445	1.432	1.419	1.408	1.398	1.389	1.381	1.374	1.367
18	1.242	1.710	1.676	1.639	1.603	1.569	1.539	1.513	1.490	1.470	1.452	1.437	1.423	1.412	1.401	1.391	1.383	1.375	1.368	1.362
19	1.243	1.707	1.670	1.631	1.594	1.559	1.529	1.503	1.481	1.461	1.444	1.429	1.416	1.405	1.394	1.385	1.377	1.370	1.363	1.357
20	1.245	1.703	1.664	1.623	1.585	1.550	1.520	1.495	1.472	1.453	1.436	1.422	1.409	1.398	1.388	1.380	1.372	1.365	1.359	1.353

ตารางที่ ก.15 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.246	1.699	1.658	1.616	1.576	1.542	1.512	1.486	1.464	1.446	1.429	1.415	1.403	1.393	1.383	1.375	1.367	1.360	1.354	1.349
22	1.248	1.696	1.652	1.608	1.568	1.533	1.504	1.478	1.457	1.439	1.423	1.409	1.398	1.387	1.378	1.370	1.363	1.356	1.351	1.345
23	1.249	1.692	1.646	1.601	1.560	1.525	1.496	1.471	1.450	1.432	1.417	1.404	1.392	1.382	1.374	1.366	1.359	1.353	1.347	1.342
24	1.250	1.688	1.640	1.594	1.553	1.518	1.489	1.464	1.444	1.426	1.411	1.399	1.387	1.378	1.369	1.362	1.355	1.349	1.344	1.339
25	1.251	1.684	1.635	1.587	1.546	1.511	1.482	1.458	1.437	1.420	1.406	1.394	1.383	1.374	1.366	1.358	1.352	1.346	1.341	1.337
26	1.252	1.680	1.629	1.580	1.539	1.504	1.475	1.451	1.432	1.415	1.401	1.389	1.379	1.370	1.362	1.355	1.349	1.343	1.338	1.334
27	1.253	1.676	1.623	1.574	1.532	1.497	1.469	1.446	1.426	1.410	1.397	1.385	1.375	1.366	1.359	1.352	1.346	1.341	1.336	1.332
28	1.254	1.673	1.618	1.568	1.525	1.491	1.463	1.440	1.421	1.406	1.392	1.381	1.371	1.363	1.356	1.349	1.343	1.338	1.334	1.330
29	1.254	1.669	1.612	1.561	1.519	1.485	1.458	1.435	1.417	1.401	1.388	1.377	1.368	1.360	1.353	1.346	1.341	1.336	1.331	1.328
30	1.255	1.665	1.607	1.555	1.513	1.479	1.452	1.430	1.412	1.397	1.385	1.374	1.365	1.357	1.350	1.344	1.339	1.334	1.329	1.326
31	1.256	1.661	1.601	1.550	1.508	1.474	1.447	1.426	1.408	1.393	1.381	1.371	1.362	1.354	1.347	1.342	1.336	1.332	1.328	1.324
32	1.256	1.657	1.596	1.544	1.502	1.469	1.442	1.421	1.404	1.390	1.378	1.368	1.359	1.352	1.345	1.339	1.334	1.330	1.326	1.322
33	1.257	1.653	1.591	1.538	1.497	1.464	1.438	1.417	1.400	1.386	1.375	1.365	1.356	1.349	1.343	1.337	1.332	1.328	1.324	1.321
34	1.258	1.649	1.586	1.533	1.491	1.459	1.433	1.413	1.397	1.383	1.372	1.362	1.354	1.347	1.341	1.335	1.331	1.326	1.323	1.319
35	1.258	1.645	1.581	1.528	1.487	1.454	1.429	1.409	1.393	1.380	1.369	1.360	1.352	1.345	1.339	1.334	1.329	1.325	1.321	1.318
36	1.259	1.642	1.576	1.523	1.482	1.450	1.425	1.406	1.390	1.377	1.366	1.357	1.349	1.343	1.337	1.332	1.327	1.323	1.320	1.317
37	1.259	1.638	1.571	1.518	1.477	1.446	1.422	1.402	1.387	1.374	1.364	1.355	1.347	1.341	1.335	1.330	1.326	1.322	1.319	1.316
38	1.260	1.634	1.567	1.513	1.473	1.442	1.418	1.399	1.384	1.371	1.361	1.353	1.345	1.339	1.334	1.329	1.325	1.321	1.317	1.314
39	1.260	1.630	1.562	1.509	1.469	1.438	1.414	1.396	1.381	1.369	1.359	1.351	1.343	1.337	1.332	1.327	1.323	1.320	1.316	1.313
40	1.261	1.627	1.558	1.504	1.464	1.434	1.411	1.393	1.378	1.367	1.357	1.349	1.342	1.336	1.330	1.326	1.322	1.318	1.315	1.312

ตารางที่ ก.16 แรงดันผิดพลาดเฟส C ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 12 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.946	1.740	1.743	1.747	1.751	1.754	1.757	1.761	1.764	1.767	1.770	1.773	1.776	1.778	1.781	1.783	1.786	1.788	1.790	1.792
1	1.047	1.740	1.743	1.747	1.750	1.753	1.756	1.759	1.761	1.764	1.766	1.768	1.770	1.772	1.774	1.775	1.776	1.778	1.779	1.780
2	1.102	1.740	1.743	1.746	1.749	1.752	1.754	1.757	1.759	1.760	1.762	1.763	1.764	1.765	1.765	1.765	1.766	1.765	1.765	1.765
3	1.135	1.740	1.743	1.746	1.748	1.751	1.752	1.754	1.755	1.756	1.756	1.757	1.756	1.756	1.755	1.755	1.753	1.752	1.750	1.749
4	1.159	1.740	1.743	1.745	1.747	1.749	1.750	1.751	1.751	1.751	1.750	1.749	1.748	1.747	1.745	1.743	1.740	1.738	1.735	1.732
5	1.175	1.739	1.742	1.744	1.746	1.747	1.747	1.747	1.746	1.745	1.744	1.742	1.739	1.737	1.734	1.730	1.727	1.723	1.719	1.714
6	1.188	1.739	1.742	1.743	1.744	1.745	1.744	1.743	1.742	1.739	1.737	1.734	1.730	1.726	1.722	1.717	1.713	1.708	1.703	1.697
7	1.198	1.739	1.741	1.742	1.743	1.742	1.741	1.739	1.736	1.733	1.729	1.725	1.720	1.715	1.710	1.704	1.699	1.693	1.686	1.680
8	1.206	1.739	1.741	1.741	1.741	1.740	1.737	1.734	1.731	1.726	1.722	1.716	1.710	1.704	1.698	1.691	1.685	1.677	1.670	1.663
9	1.212	1.739	1.740	1.740	1.739	1.737	1.734	1.730	1.725	1.719	1.714	1.707	1.700	1.693	1.686	1.678	1.671	1.663	1.655	1.647
10	1.217	1.738	1.739	1.739	1.737	1.734	1.730	1.725	1.719	1.712	1.705	1.698	1.690	1.682	1.674	1.665	1.657	1.648	1.640	1.631
11	1.222	1.738	1.738	1.737	1.734	1.730	1.725	1.719	1.713	1.705	1.697	1.689	1.680	1.671	1.662	1.653	1.644	1.634	1.626	1.616
12	1.226	1.738	1.737	1.736	1.732	1.727	1.721	1.714	1.706	1.698	1.689	1.679	1.670	1.660	1.650	1.640	1.631	1.621	1.612	1.602
13	1.229	1.737	1.737	1.734	1.729	1.724	1.717	1.708	1.700	1.690	1.680	1.670	1.660	1.649	1.639	1.628	1.618	1.608	1.599	1.589
14	1.232	1.737	1.736	1.732	1.727	1.720	1.712	1.703	1.693	1.683	1.672	1.661	1.650	1.639	1.628	1.617	1.606	1.596	1.586	1.576
15	1.235	1.736	1.735	1.730	1.724	1.716	1.707	1.697	1.686	1.675	1.664	1.652	1.640	1.628	1.617	1.606	1.595	1.584	1.574	1.564
16	1.238	1.736	1.733	1.728	1.721	1.713	1.702	1.691	1.680	1.668	1.655	1.643	1.631	1.618	1.607	1.595	1.584	1.573	1.563	1.552
17	1.240	1.735	1.732	1.726	1.718	1.709	1.698	1.686	1.673	1.660	1.647	1.634	1.621	1.609	1.597	1.585	1.573	1.562	1.552	1.541
18	1.242	1.735	1.731	1.724	1.715	1.705	1.693	1.680	1.666	1.653	1.639	1.625	1.612	1.599	1.587	1.575	1.563	1.552	1.542	1.531
19	1.243	1.734	1.730	1.722	1.712	1.701	1.688	1.674	1.660	1.645	1.631	1.617	1.603	1.590	1.578	1.565	1.554	1.543	1.532	1.522
20	1.245	1.734	1.728	1.720	1.709	1.697	1.683	1.668	1.653	1.638	1.623	1.609	1.595	1.582	1.569	1.556	1.545	1.533	1.523	1.513

ตารางที่ ก.16 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.246	1.733	1.727	1.718	1.706	1.692	1.678	1.662	1.647	1.631	1.616	1.601	1.587	1.573	1.560	1.548	1.536	1.525	1.514	1.504
22	1.248	1.733	1.726	1.715	1.703	1.688	1.672	1.656	1.640	1.624	1.608	1.593	1.579	1.565	1.552	1.539	1.528	1.517	1.506	1.496
23	1.249	1.732	1.724	1.713	1.699	1.684	1.667	1.651	1.634	1.617	1.601	1.586	1.571	1.557	1.544	1.531	1.520	1.509	1.499	1.488
24	1.250	1.731	1.723	1.711	1.696	1.680	1.662	1.645	1.627	1.610	1.594	1.578	1.564	1.550	1.536	1.524	1.512	1.501	1.491	1.481
25	1.251	1.730	1.721	1.708	1.693	1.675	1.657	1.639	1.621	1.604	1.587	1.571	1.556	1.542	1.529	1.517	1.505	1.494	1.484	1.474
26	1.252	1.730	1.720	1.706	1.689	1.671	1.652	1.634	1.615	1.597	1.580	1.564	1.549	1.535	1.522	1.510	1.498	1.488	1.478	1.468
27	1.253	1.729	1.718	1.703	1.686	1.667	1.647	1.628	1.609	1.591	1.574	1.558	1.543	1.529	1.515	1.503	1.492	1.481	1.472	1.462
28	1.254	1.728	1.717	1.701	1.682	1.663	1.642	1.622	1.603	1.585	1.568	1.551	1.536	1.522	1.509	1.497	1.486	1.475	1.466	1.456
29	1.254	1.727	1.715	1.698	1.679	1.658	1.638	1.617	1.598	1.579	1.561	1.545	1.530	1.516	1.503	1.491	1.480	1.469	1.460	1.451
30	1.255	1.727	1.713	1.695	1.675	1.654	1.633	1.612	1.592	1.573	1.555	1.539	1.524	1.510	1.497	1.485	1.474	1.464	1.455	1.446
31	1.256	1.726	1.711	1.693	1.672	1.650	1.628	1.607	1.586	1.567	1.550	1.533	1.518	1.504	1.491	1.479	1.469	1.459	1.450	1.441
32	1.256	1.725	1.710	1.690	1.668	1.646	1.623	1.601	1.581	1.562	1.544	1.527	1.512	1.499	1.486	1.474	1.464	1.454	1.445	1.436
33	1.257	1.724	1.708	1.688	1.665	1.642	1.618	1.596	1.576	1.556	1.538	1.522	1.507	1.493	1.481	1.469	1.459	1.449	1.440	1.431
34	1.258	1.723	1.706	1.685	1.661	1.637	1.614	1.591	1.570	1.551	1.533	1.517	1.502	1.488	1.476	1.464	1.454	1.444	1.436	1.427
35	1.258	1.722	1.704	1.682	1.658	1.633	1.609	1.586	1.565	1.546	1.528	1.512	1.497	1.483	1.471	1.460	1.450	1.440	1.431	1.423
36	1.259	1.721	1.702	1.679	1.654	1.629	1.605	1.582	1.560	1.541	1.523	1.507	1.492	1.479	1.466	1.455	1.445	1.436	1.427	1.419
37	1.259	1.720	1.701	1.677	1.651	1.625	1.600	1.577	1.556	1.536	1.518	1.502	1.487	1.474	1.462	1.451	1.441	1.432	1.424	1.416
38	1.260	1.719	1.699	1.674	1.647	1.621	1.596	1.572	1.551	1.531	1.513	1.497	1.483	1.470	1.458	1.447	1.437	1.428	1.420	1.412
39	1.260	1.718	1.697	1.671	1.644	1.617	1.592	1.568	1.546	1.527	1.509	1.493	1.478	1.465	1.454	1.443	1.433	1.424	1.416	1.409
40	1.261	1.717	1.695	1.668	1.640	1.613	1.587	1.563	1.542	1.522	1.504	1.488	1.474	1.461	1.450	1.439	1.430	1.421	1.413	1.406

ตารางที่ ก.17 แรงดันผิดพลาดเฟส C ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 24 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.946	1.747	1.754	1.761	1.767	1.773	1.778	1.783	1.788	1.792	1.796	1.800	1.803	1.806	1.809	1.811	1.813	1.814	1.815	1.816
1	1.047	1.747	1.753	1.759	1.764	1.768	1.772	1.775	1.778	1.780	1.781	1.782	1.782	1.782	1.781	1.780	1.778	1.776	1.773	1.770
2	1.102	1.746	1.752	1.757	1.760	1.763	1.765	1.765	1.765	1.765	1.763	1.761	1.758	1.755	1.751	1.747	1.742	1.737	1.731	1.726
3	1.135	1.746	1.751	1.754	1.756	1.757	1.756	1.755	1.752	1.749	1.744	1.740	1.734	1.728	1.721	1.714	1.707	1.699	1.691	1.684
4	1.159	1.745	1.749	1.751	1.751	1.750	1.747	1.743	1.738	1.732	1.725	1.717	1.709	1.701	1.692	1.683	1.674	1.664	1.655	1.646
5	1.175	1.744	1.747	1.747	1.745	1.742	1.737	1.730	1.723	1.714	1.705	1.696	1.685	1.675	1.664	1.654	1.643	1.632	1.622	1.612
6	1.188	1.743	1.745	1.743	1.739	1.734	1.726	1.717	1.708	1.697	1.686	1.674	1.662	1.650	1.639	1.627	1.615	1.604	1.592	1.581
7	1.198	1.742	1.742	1.739	1.733	1.725	1.715	1.704	1.693	1.680	1.667	1.654	1.641	1.627	1.615	1.602	1.590	1.578	1.566	1.555
8	1.206	1.741	1.740	1.734	1.726	1.716	1.704	1.691	1.677	1.663	1.649	1.634	1.620	1.606	1.592	1.579	1.567	1.555	1.543	1.532
9	1.212	1.740	1.737	1.730	1.719	1.707	1.693	1.678	1.663	1.647	1.631	1.616	1.601	1.586	1.572	1.559	1.546	1.534	1.522	1.512
10	1.217	1.739	1.734	1.725	1.712	1.698	1.682	1.665	1.648	1.631	1.615	1.599	1.583	1.568	1.554	1.540	1.528	1.516	1.504	1.494
11	1.222	1.737	1.730	1.719	1.705	1.689	1.671	1.653	1.634	1.616	1.599	1.582	1.566	1.551	1.537	1.524	1.511	1.499	1.488	1.478
12	1.226	1.736	1.727	1.714	1.698	1.679	1.660	1.640	1.621	1.602	1.584	1.567	1.551	1.536	1.522	1.508	1.496	1.485	1.474	1.464
13	1.229	1.734	1.724	1.708	1.690	1.670	1.649	1.628	1.608	1.589	1.570	1.553	1.537	1.522	1.508	1.495	1.483	1.471	1.461	1.451
14	1.232	1.732	1.720	1.703	1.683	1.661	1.639	1.617	1.596	1.576	1.557	1.540	1.524	1.509	1.495	1.482	1.470	1.460	1.449	1.440
15	1.235	1.730	1.716	1.697	1.675	1.652	1.628	1.606	1.584	1.564	1.545	1.528	1.512	1.497	1.483	1.471	1.459	1.449	1.439	1.430
16	1.238	1.728	1.712	1.691	1.668	1.643	1.618	1.595	1.573	1.553	1.534	1.516	1.500	1.486	1.473	1.460	1.449	1.439	1.430	1.421
17	1.240	1.726	1.709	1.686	1.660	1.634	1.609	1.585	1.562	1.542	1.523	1.506	1.490	1.476	1.463	1.451	1.440	1.430	1.421	1.413
18	1.242	1.724	1.705	1.680	1.653	1.625	1.599	1.575	1.552	1.532	1.513	1.496	1.480	1.466	1.454	1.442	1.432	1.422	1.413	1.406
19	1.243	1.722	1.701	1.674	1.645	1.617	1.590	1.565	1.543	1.522	1.503	1.487	1.471	1.458	1.446	1.434	1.424	1.415	1.407	1.399
20	1.245	1.720	1.696	1.668	1.638	1.609	1.581	1.556	1.533	1.513	1.495	1.478	1.463	1.450	1.438	1.427	1.417	1.408	1.400	1.393

ตารางที่ ก.17 (ต่อ)

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.246	1.718	1.692	1.662	1.631	1.601	1.573	1.548	1.525	1.504	1.486	1.470	1.455	1.442	1.431	1.420	1.411	1.402	1.394	1.387
22	1.248	1.715	1.688	1.656	1.624	1.593	1.565	1.539	1.517	1.496	1.478	1.462	1.448	1.436	1.424	1.414	1.405	1.397	1.389	1.382
23	1.249	1.713	1.684	1.651	1.617	1.586	1.557	1.531	1.509	1.489	1.471	1.455	1.442	1.429	1.418	1.408	1.399	1.391	1.384	1.377
24	1.250	1.711	1.680	1.645	1.610	1.578	1.549	1.524	1.501	1.482	1.464	1.449	1.435	1.423	1.413	1.403	1.394	1.387	1.379	1.373
25	1.251	1.708	1.675	1.639	1.604	1.571	1.542	1.517	1.494	1.475	1.458	1.443	1.429	1.418	1.407	1.398	1.390	1.382	1.375	1.369
26	1.252	1.706	1.671	1.634	1.597	1.564	1.535	1.510	1.488	1.468	1.452	1.437	1.424	1.412	1.402	1.393	1.385	1.378	1.371	1.365
27	1.253	1.703	1.667	1.628	1.591	1.558	1.528	1.503	1.481	1.462	1.446	1.431	1.419	1.408	1.398	1.389	1.381	1.374	1.368	1.362
28	1.254	1.701	1.663	1.622	1.585	1.551	1.522	1.497	1.475	1.456	1.440	1.426	1.414	1.403	1.393	1.385	1.377	1.371	1.364	1.359
29	1.254	1.698	1.658	1.617	1.579	1.545	1.516	1.491	1.469	1.451	1.435	1.421	1.409	1.399	1.389	1.381	1.374	1.367	1.361	1.356
30	1.255	1.695	1.654	1.612	1.573	1.539	1.510	1.485	1.464	1.446	1.430	1.417	1.405	1.395	1.386	1.378	1.370	1.364	1.358	1.353
31	1.256	1.693	1.650	1.607	1.567	1.533	1.504	1.479	1.459	1.441	1.426	1.412	1.401	1.391	1.382	1.374	1.367	1.361	1.355	1.350
32	1.256	1.690	1.646	1.601	1.562	1.527	1.499	1.474	1.454	1.436	1.421	1.408	1.397	1.387	1.379	1.371	1.364	1.358	1.353	1.348
33	1.257	1.688	1.641	1.596	1.556	1.522	1.493	1.469	1.449	1.432	1.417	1.404	1.393	1.384	1.376	1.368	1.362	1.356	1.350	1.346
34	1.258	1.685	1.637	1.591	1.551	1.517	1.488	1.464	1.444	1.427	1.413	1.401	1.390	1.381	1.373	1.365	1.359	1.353	1.348	1.343
35	1.258	1.682	1.633	1.586	1.546	1.512	1.483	1.460	1.440	1.423	1.409	1.397	1.387	1.378	1.370	1.363	1.356	1.351	1.346	1.341
36	1.259	1.679	1.629	1.582	1.541	1.507	1.478	1.455	1.436	1.420	1.406	1.394	1.384	1.375	1.367	1.360	1.354	1.349	1.344	1.340
37	1.259	1.677	1.625	1.577	1.536	1.502	1.474	1.451	1.432	1.416	1.402	1.391	1.381	1.372	1.365	1.358	1.352	1.347	1.342	1.338
38	1.260	1.674	1.621	1.572	1.531	1.497	1.470	1.447	1.428	1.412	1.399	1.388	1.378	1.370	1.362	1.356	1.350	1.345	1.340	1.336
39	1.260	1.671	1.617	1.568	1.527	1.493	1.465	1.443	1.424	1.409	1.396	1.385	1.375	1.367	1.360	1.353	1.348	1.343	1.338	1.334
40	1.261	1.668	1.613	1.563	1.522	1.488	1.461	1.439	1.421	1.406	1.393	1.382	1.373	1.365	1.358	1.351	1.346	1.341	1.337	1.333

ตารางที่ ก.18 แรงดันผิดพลาดเฟส C ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 3 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.946	1.734	1.735	1.736	1.737	1.738	1.739	1.740	1.741	1.742	1.743	1.743	1.744	1.745	1.746	1.747	1.748	1.749	1.750	1.751
1	1.047	1.734	1.735	1.736	1.737	1.738	1.739	1.740	1.741	1.742	1.743	1.743	1.744	1.745	1.746	1.747	1.748	1.748	1.749	1.750
2	1.102	1.734	1.735	1.736	1.737	1.738	1.739	1.740	1.741	1.742	1.742	1.743	1.744	1.745	1.746	1.746	1.747	1.748	1.749	1.749
3	1.135	1.734	1.735	1.736	1.737	1.738	1.739	1.740	1.741	1.741	1.742	1.743	1.744	1.744	1.745	1.746	1.747	1.747	1.748	1.748
4	1.159	1.734	1.735	1.736	1.737	1.738	1.739	1.740	1.740	1.741	1.742	1.743	1.743	1.744	1.745	1.745	1.746	1.746	1.747	1.747
5	1.175	1.734	1.735	1.736	1.737	1.738	1.739	1.739	1.740	1.741	1.742	1.742	1.743	1.743	1.744	1.744	1.745	1.745	1.746	1.746
6	1.188	1.734	1.735	1.736	1.737	1.738	1.739	1.739	1.740	1.741	1.741	1.742	1.742	1.743	1.743	1.743	1.744	1.744	1.744	1.744
7	1.198	1.734	1.735	1.736	1.737	1.738	1.738	1.739	1.740	1.740	1.741	1.741	1.742	1.742	1.742	1.742	1.743	1.743	1.743	1.743
8	1.206	1.734	1.735	1.736	1.737	1.738	1.738	1.739	1.739	1.740	1.740	1.741	1.741	1.741	1.741	1.741	1.741	1.741	1.741	1.741
9	1.212	1.734	1.735	1.736	1.737	1.738	1.738	1.739	1.739	1.739	1.740	1.740	1.740	1.740	1.740	1.740	1.740	1.740	1.739	1.739
10	1.217	1.734	1.735	1.736	1.737	1.737	1.738	1.738	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.738	1.738	1.737	1.737
11	1.222	1.734	1.735	1.736	1.737	1.737	1.738	1.738	1.738	1.738	1.738	1.738	1.738	1.738	1.738	1.737	1.737	1.736	1.735	1.734
12	1.226	1.734	1.735	1.736	1.737	1.737	1.737	1.738	1.738	1.738	1.738	1.737	1.737	1.737	1.736	1.735	1.735	1.734	1.733	1.732
13	1.229	1.734	1.735	1.736	1.736	1.737	1.737	1.737	1.737	1.737	1.737	1.737	1.736	1.735	1.735	1.734	1.733	1.732	1.731	1.729
14	1.232	1.734	1.735	1.736	1.736	1.737	1.737	1.737	1.737	1.737	1.736	1.736	1.735	1.734	1.733	1.732	1.731	1.730	1.728	1.727
15	1.235	1.734	1.735	1.736	1.736	1.736	1.737	1.736	1.736	1.736	1.735	1.734	1.734	1.733	1.732	1.730	1.729	1.727	1.726	1.724
16	1.238	1.734	1.735	1.736	1.736	1.736	1.736	1.736	1.736	1.735	1.734	1.733	1.732	1.731	1.730	1.728	1.727	1.725	1.723	1.721
17	1.240	1.734	1.735	1.736	1.736	1.736	1.736	1.735	1.735	1.734	1.733	1.732	1.731	1.730	1.728	1.726	1.725	1.723	1.721	1.718
18	1.242	1.734	1.735	1.735	1.736	1.736	1.735	1.735	1.734	1.733	1.732	1.731	1.730	1.728	1.726	1.724	1.722	1.720	1.718	1.715
19	1.243	1.734	1.735	1.735	1.735	1.735	1.735	1.734	1.734	1.732	1.731	1.730	1.728	1.726	1.724	1.722	1.720	1.717	1.715	1.712
20	1.245	1.734	1.735	1.735	1.735	1.735	1.735	1.734	1.733	1.732	1.730	1.728	1.727	1.725	1.722	1.720	1.717	1.715	1.712	1.709

ตารางที่ ก.18 (ต่อ)

kmR	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.246	1.734	1.735	1.735	1.735	1.735	1.734	1.733	1.732	1.731	1.729	1.727	1.725	1.723	1.720	1.718	1.715	1.712	1.709	1.706
22	1.248	1.734	1.735	1.735	1.735	1.734	1.734	1.733	1.731	1.730	1.728	1.726	1.723	1.721	1.718	1.715	1.712	1.709	1.706	1.703
23	1.249	1.734	1.735	1.735	1.735	1.734	1.733	1.732	1.730	1.729	1.726	1.724	1.722	1.719	1.716	1.713	1.710	1.706	1.703	1.699
24	1.250	1.734	1.735	1.735	1.734	1.734	1.733	1.731	1.729	1.728	1.725	1.723	1.720	1.717	1.714	1.711	1.707	1.704	1.700	1.696
25	1.251	1.734	1.735	1.735	1.734	1.733	1.732	1.731	1.729	1.726	1.724	1.721	1.718	1.715	1.712	1.708	1.705	1.701	1.697	1.693
26	1.252	1.734	1.734	1.734	1.734	1.733	1.731	1.730	1.728	1.725	1.723	1.720	1.716	1.713	1.710	1.706	1.702	1.698	1.694	1.689
27	1.253	1.734	1.734	1.734	1.734	1.732	1.731	1.729	1.727	1.724	1.721	1.718	1.715	1.711	1.707	1.703	1.699	1.695	1.690	1.686
28	1.254	1.734	1.734	1.734	1.733	1.732	1.730	1.728	1.726	1.723	1.720	1.716	1.713	1.709	1.705	1.701	1.696	1.692	1.687	1.682
29	1.254	1.734	1.734	1.734	1.733	1.732	1.730	1.727	1.725	1.722	1.718	1.715	1.711	1.707	1.703	1.698	1.693	1.689	1.684	1.679
30	1.255	1.734	1.734	1.734	1.733	1.731	1.729	1.727	1.724	1.721	1.717	1.713	1.709	1.705	1.700	1.695	1.691	1.686	1.681	1.675
31	1.256	1.734	1.734	1.733	1.732	1.731	1.728	1.726	1.723	1.719	1.715	1.711	1.707	1.703	1.698	1.693	1.688	1.683	1.677	1.672
32	1.256	1.734	1.734	1.733	1.732	1.730	1.728	1.725	1.722	1.718	1.714	1.710	1.705	1.701	1.695	1.690	1.685	1.679	1.674	1.668
33	1.257	1.734	1.734	1.733	1.732	1.730	1.727	1.724	1.720	1.717	1.712	1.708	1.703	1.698	1.693	1.687	1.682	1.676	1.671	1.665
34	1.258	1.734	1.734	1.733	1.731	1.729	1.726	1.723	1.719	1.715	1.711	1.706	1.701	1.696	1.690	1.685	1.679	1.673	1.667	1.661
35	1.258	1.734	1.734	1.733	1.731	1.729	1.726	1.722	1.718	1.714	1.709	1.704	1.699	1.694	1.688	1.682	1.676	1.670	1.664	1.658
36	1.259	1.734	1.733	1.732	1.730	1.728	1.725	1.721	1.717	1.713	1.708	1.702	1.697	1.691	1.685	1.679	1.673	1.667	1.661	1.654
37	1.259	1.734	1.733	1.732	1.730	1.727	1.724	1.720	1.716	1.711	1.706	1.700	1.695	1.689	1.683	1.676	1.670	1.664	1.657	1.651
38	1.260	1.734	1.733	1.732	1.730	1.727	1.723	1.719	1.715	1.710	1.704	1.699	1.693	1.687	1.680	1.674	1.667	1.661	1.654	1.647
39	1.260	1.734	1.733	1.732	1.729	1.726	1.723	1.718	1.713	1.708	1.703	1.697	1.691	1.685	1.678	1.671	1.664	1.658	1.651	1.644
40	1.261	1.734	1.733	1.731	1.729	1.726	1.722	1.717	1.712	1.707	1.701	1.695	1.688	1.682	1.675	1.668	1.661	1.654	1.647	1.640

ตารางที่ ก.19 แรงดันผิดพลาดเฟส C ในการต่อลงดินผ่านความต้านทานค่าต่างๆ ณ จุดเกิดความผิดพลาดต่างกันสำหรับระบบ 6 kV

km\R	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
0	0.946	1.736	1.738	1.740	1.742	1.743	1.745	1.747	1.749	1.751	1.752	1.754	1.756	1.757	1.759	1.761	1.762	1.764	1.765	1.767
1	1.047	1.736	1.738	1.740	1.742	1.743	1.745	1.747	1.748	1.750	1.752	1.753	1.755	1.756	1.758	1.759	1.760	1.762	1.763	1.764
2	1.102	1.736	1.738	1.740	1.742	1.743	1.745	1.746	1.748	1.749	1.751	1.752	1.753	1.754	1.756	1.757	1.758	1.759	1.759	1.760
3	1.135	1.736	1.738	1.740	1.741	1.743	1.744	1.746	1.747	1.748	1.750	1.751	1.752	1.752	1.753	1.754	1.754	1.755	1.755	1.756
4	1.159	1.736	1.738	1.740	1.741	1.743	1.744	1.745	1.746	1.747	1.748	1.749	1.749	1.750	1.750	1.751	1.751	1.751	1.751	1.751
5	1.175	1.736	1.738	1.739	1.741	1.742	1.743	1.744	1.745	1.746	1.746	1.747	1.747	1.747	1.747	1.747	1.747	1.746	1.746	1.745
6	1.188	1.736	1.738	1.739	1.741	1.742	1.743	1.743	1.744	1.744	1.745	1.745	1.744	1.744	1.744	1.743	1.742	1.742	1.741	1.739
7	1.198	1.736	1.738	1.739	1.740	1.741	1.742	1.742	1.743	1.743	1.743	1.742	1.742	1.741	1.740	1.739	1.738	1.736	1.735	1.733
8	1.206	1.736	1.738	1.739	1.740	1.741	1.741	1.741	1.741	1.741	1.740	1.740	1.738	1.737	1.736	1.734	1.733	1.731	1.729	1.726
9	1.212	1.736	1.738	1.739	1.739	1.740	1.740	1.740	1.740	1.739	1.738	1.737	1.735	1.733	1.732	1.730	1.727	1.725	1.722	1.719
10	1.217	1.736	1.737	1.738	1.739	1.739	1.739	1.739	1.738	1.737	1.735	1.734	1.732	1.729	1.727	1.725	1.722	1.719	1.716	1.712
11	1.222	1.736	1.737	1.738	1.738	1.738	1.738	1.737	1.736	1.734	1.733	1.730	1.728	1.725	1.722	1.719	1.716	1.712	1.709	1.705
12	1.226	1.736	1.737	1.738	1.738	1.737	1.737	1.736	1.734	1.732	1.730	1.727	1.724	1.721	1.718	1.714	1.710	1.706	1.702	1.698
13	1.229	1.736	1.737	1.737	1.737	1.737	1.735	1.734	1.732	1.729	1.727	1.724	1.720	1.716	1.713	1.709	1.704	1.699	1.695	1.690
14	1.232	1.736	1.737	1.737	1.737	1.736	1.734	1.732	1.730	1.727	1.724	1.720	1.716	1.712	1.707	1.703	1.698	1.693	1.688	1.682
15	1.235	1.736	1.736	1.736	1.736	1.735	1.733	1.730	1.727	1.724	1.720	1.716	1.712	1.707	1.702	1.697	1.692	1.686	1.681	1.675
16	1.238	1.736	1.736	1.736	1.735	1.733	1.731	1.728	1.725	1.721	1.717	1.713	1.707	1.702	1.697	1.692	1.686	1.679	1.673	1.667
17	1.240	1.736	1.736	1.735	1.734	1.732	1.730	1.726	1.723	1.718	1.714	1.709	1.703	1.697	1.692	1.686	1.679	1.673	1.666	1.660
18	1.242	1.735	1.736	1.735	1.733	1.731	1.728	1.724	1.720	1.715	1.710	1.705	1.699	1.692	1.686	1.680	1.673	1.666	1.659	1.653
19	1.243	1.735	1.735	1.734	1.732	1.730	1.726	1.722	1.717	1.712	1.707	1.701	1.694	1.687	1.681	1.674	1.667	1.659	1.652	1.645
20	1.245	1.735	1.735	1.734	1.732	1.728	1.725	1.720	1.715	1.709	1.703	1.697	1.689	1.682	1.675	1.668	1.661	1.653	1.645	1.638

ตารางที่ ก.19 (ต่อ)

kmR	SG	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
21	1.246	1.735	1.735	1.733	1.731	1.727	1.723	1.718	1.712	1.706	1.699	1.692	1.685	1.677	1.670	1.662	1.654	1.646	1.638	1.631
22	1.248	1.735	1.734	1.733	1.730	1.726	1.721	1.715	1.709	1.703	1.696	1.688	1.680	1.672	1.664	1.657	1.648	1.640	1.632	1.624
23	1.249	1.735	1.734	1.732	1.729	1.724	1.719	1.713	1.706	1.699	1.692	1.684	1.676	1.667	1.659	1.651	1.642	1.633	1.625	1.617
24	1.250	1.735	1.734	1.731	1.728	1.723	1.717	1.711	1.704	1.696	1.688	1.680	1.671	1.662	1.654	1.645	1.636	1.627	1.619	1.610
25	1.251	1.735	1.733	1.730	1.726	1.721	1.715	1.708	1.701	1.693	1.684	1.675	1.666	1.657	1.648	1.639	1.630	1.621	1.612	1.604
26	1.252	1.734	1.733	1.730	1.725	1.720	1.713	1.706	1.698	1.689	1.680	1.671	1.662	1.652	1.643	1.634	1.624	1.615	1.606	1.597
27	1.253	1.734	1.732	1.729	1.724	1.718	1.711	1.703	1.695	1.686	1.676	1.667	1.657	1.647	1.638	1.628	1.619	1.609	1.600	1.591
28	1.254	1.734	1.732	1.728	1.723	1.716	1.709	1.701	1.692	1.682	1.673	1.663	1.652	1.642	1.632	1.623	1.613	1.603	1.594	1.585
29	1.254	1.734	1.732	1.727	1.722	1.715	1.707	1.698	1.689	1.679	1.669	1.658	1.648	1.637	1.627	1.617	1.607	1.597	1.588	1.579
30	1.255	1.734	1.731	1.727	1.721	1.713	1.705	1.695	1.686	1.675	1.665	1.654	1.643	1.632	1.622	1.612	1.602	1.591	1.582	1.573
31	1.256	1.733	1.731	1.726	1.719	1.711	1.703	1.693	1.683	1.672	1.661	1.650	1.639	1.628	1.617	1.607	1.596	1.586	1.576	1.567
32	1.256	1.733	1.730	1.725	1.718	1.710	1.700	1.690	1.679	1.668	1.657	1.646	1.634	1.623	1.612	1.602	1.591	1.580	1.571	1.561
33	1.257	1.733	1.730	1.724	1.717	1.708	1.698	1.688	1.676	1.665	1.653	1.642	1.630	1.618	1.607	1.597	1.586	1.575	1.565	1.556
34	1.258	1.733	1.729	1.723	1.715	1.706	1.696	1.685	1.673	1.661	1.649	1.637	1.625	1.613	1.602	1.592	1.581	1.570	1.560	1.551
35	1.258	1.733	1.729	1.722	1.714	1.704	1.694	1.682	1.670	1.658	1.645	1.633	1.621	1.609	1.598	1.587	1.576	1.565	1.555	1.546
36	1.259	1.732	1.728	1.721	1.713	1.702	1.691	1.679	1.667	1.654	1.642	1.629	1.616	1.604	1.593	1.582	1.571	1.560	1.550	1.541
37	1.259	1.732	1.727	1.720	1.711	1.701	1.689	1.677	1.664	1.651	1.638	1.625	1.612	1.600	1.588	1.577	1.566	1.555	1.545	1.536
38	1.260	1.732	1.727	1.719	1.710	1.699	1.687	1.674	1.661	1.647	1.634	1.621	1.608	1.596	1.584	1.573	1.562	1.550	1.540	1.531
39	1.260	1.732	1.726	1.718	1.708	1.697	1.684	1.671	1.658	1.644	1.630	1.617	1.604	1.591	1.579	1.568	1.557	1.546	1.536	1.526
40	1.261	1.731	1.726	1.717	1.707	1.695	1.682	1.668	1.654	1.640	1.627	1.613	1.600	1.587	1.575	1.564	1.552	1.541	1.531	1.522

ประวัติผู้เขียน

นายสิทธิชัย โอภาสวัชรกุล เกิดวันที่ 4 กุมภาพันธ์ พ.ศ. 2521 ที่จังหวัดกรุงเทพมหานคร สำเร็จการศึกษาปริญญาตรีวิศวกรรมศาสตรบัณฑิต สาขาวิศวกรรมไฟฟ้า จากคณะวิศวกรรมศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย ในปีการศึกษา 2540 และเข้าศึกษาต่อในหลักสูตรวิศวกรรมศาสตรมหาบัณฑิต สาขาวิศวกรรมไฟฟ้า (ไฟฟ้ากำลัง) ที่คณะวิศวกรรมศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย ในปีการศึกษา 2541

