

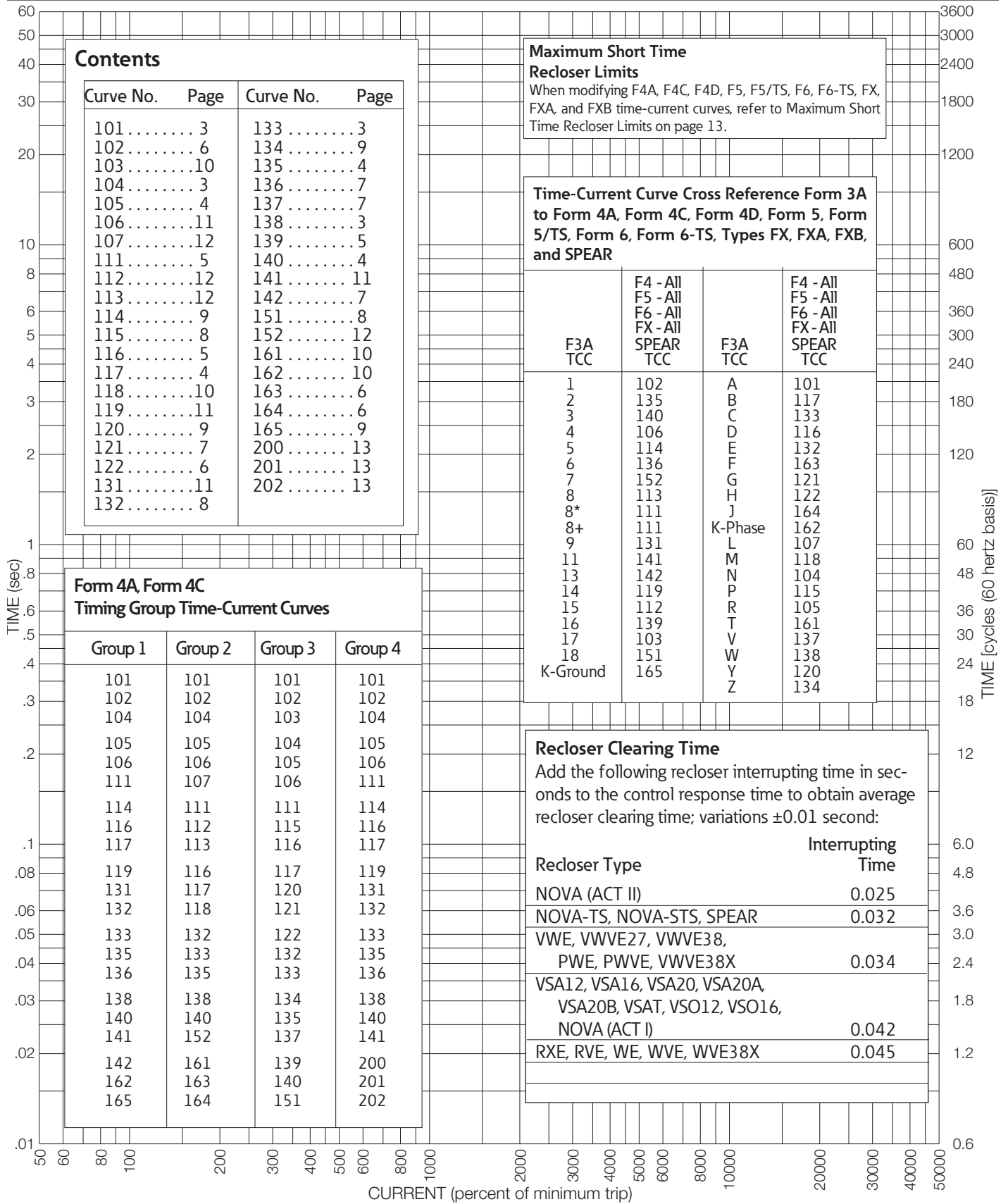
Form 4A, Form 4C, Form 4D, Form 5, Form 5/TS, Form 6, Form 6-TS, FX, FXA, FXB, and SPEAR recloser controls time-current curves

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Powering Business Worldwide



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111	5	140	4
112	12	141	11
113	12	142	7
114	9	151	8
115	8	152	12
116	5	161	10
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Maximum Short Time Recloser Limits
When modifying F4A, F4C, F4D, F5, F5/TS, F6, F6-TS, FX, FXA, and FXB time-current curves, refer to Maximum Short Time Recloser Limits on page 13.

Time-Current Curve Cross Reference Form 3A to Form 4A, Form 4C, Form 4D, Form 5, Form 5/TS, Form 6, Form 6-TS, Types FX, FXA, FXB, and SPEAR

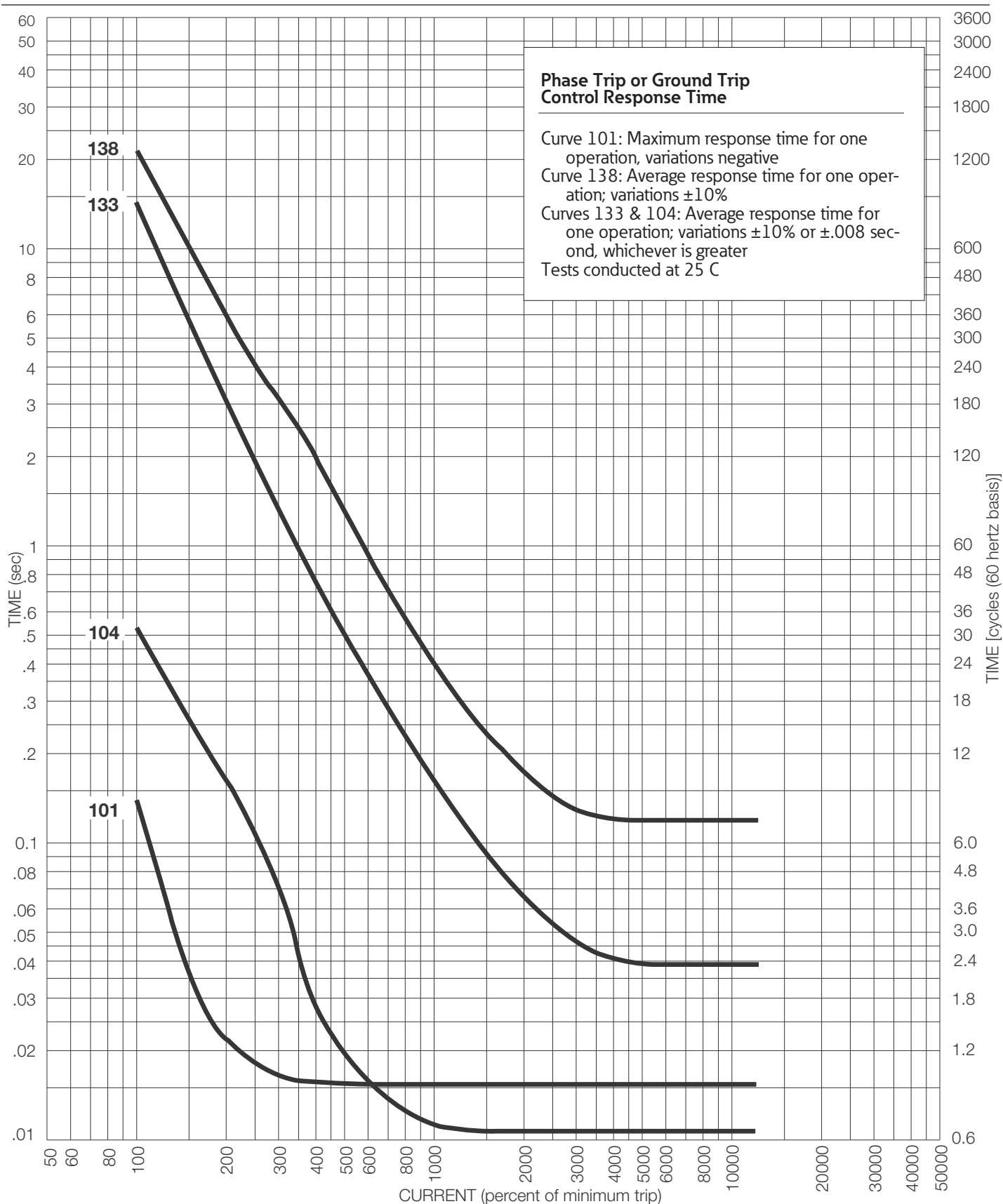
	F4 - All F5 - All F6 - All FX - All SPEAR TCC	F3A TCC	F4 - All F5 - All F6 - All FX - All SPEAR TCC
1	102	A	101
2	135	B	117
3	140	C	133
4	106	D	116
5	114	E	132
6	136	F	163
7	152	G	121
8	113	H	122
8*	111	J	164
8+	111	K-Phase	162
9	131	L	107
11	141	M	118
13	142	N	104
14	119	P	115
15	112	R	105
16	139	T	161
17	103	V	137
18	151	W	138
K-Ground	165	Y	120
		Z	134

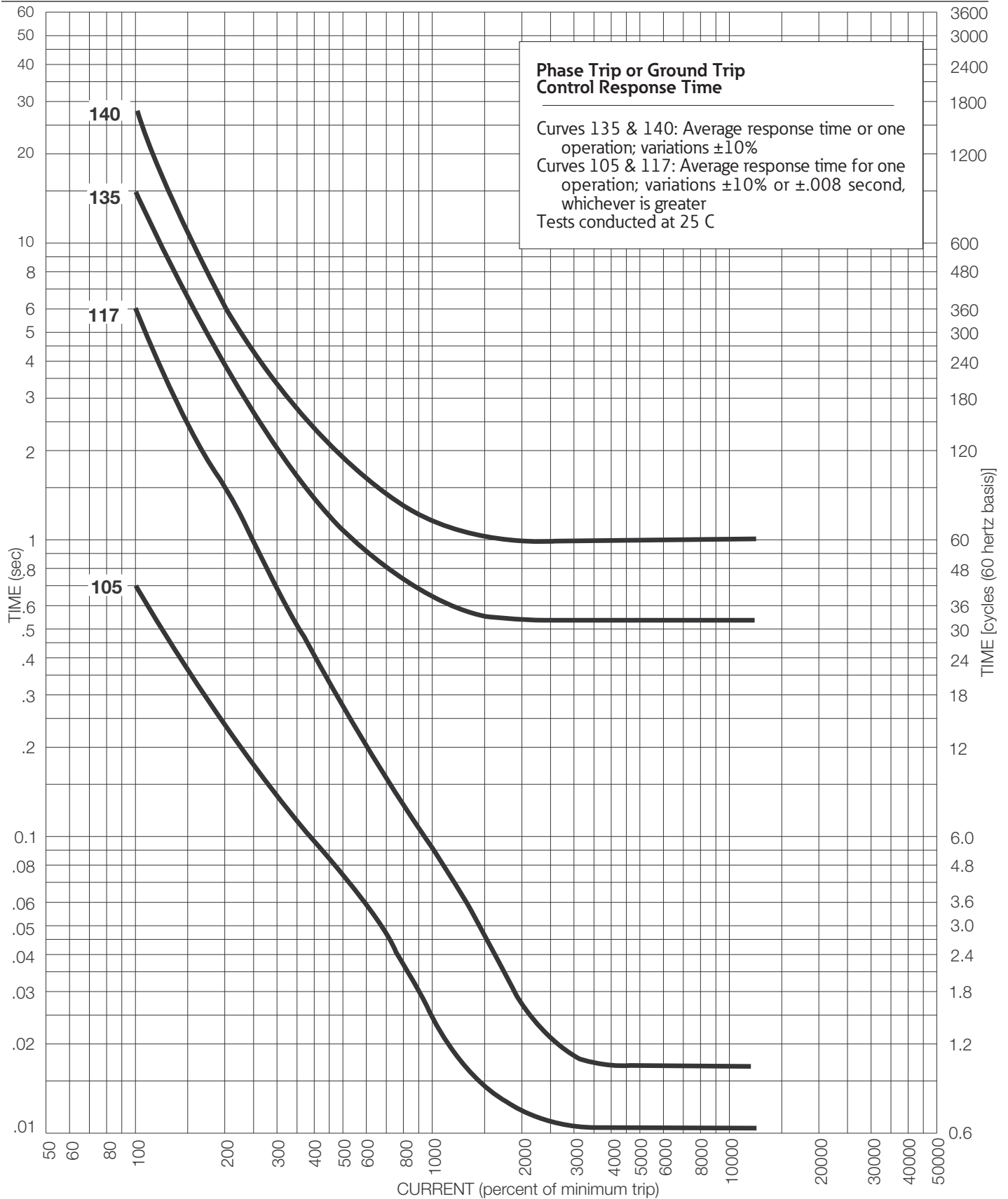
Form 4A, Form 4C Timing Group Time-Current Curves

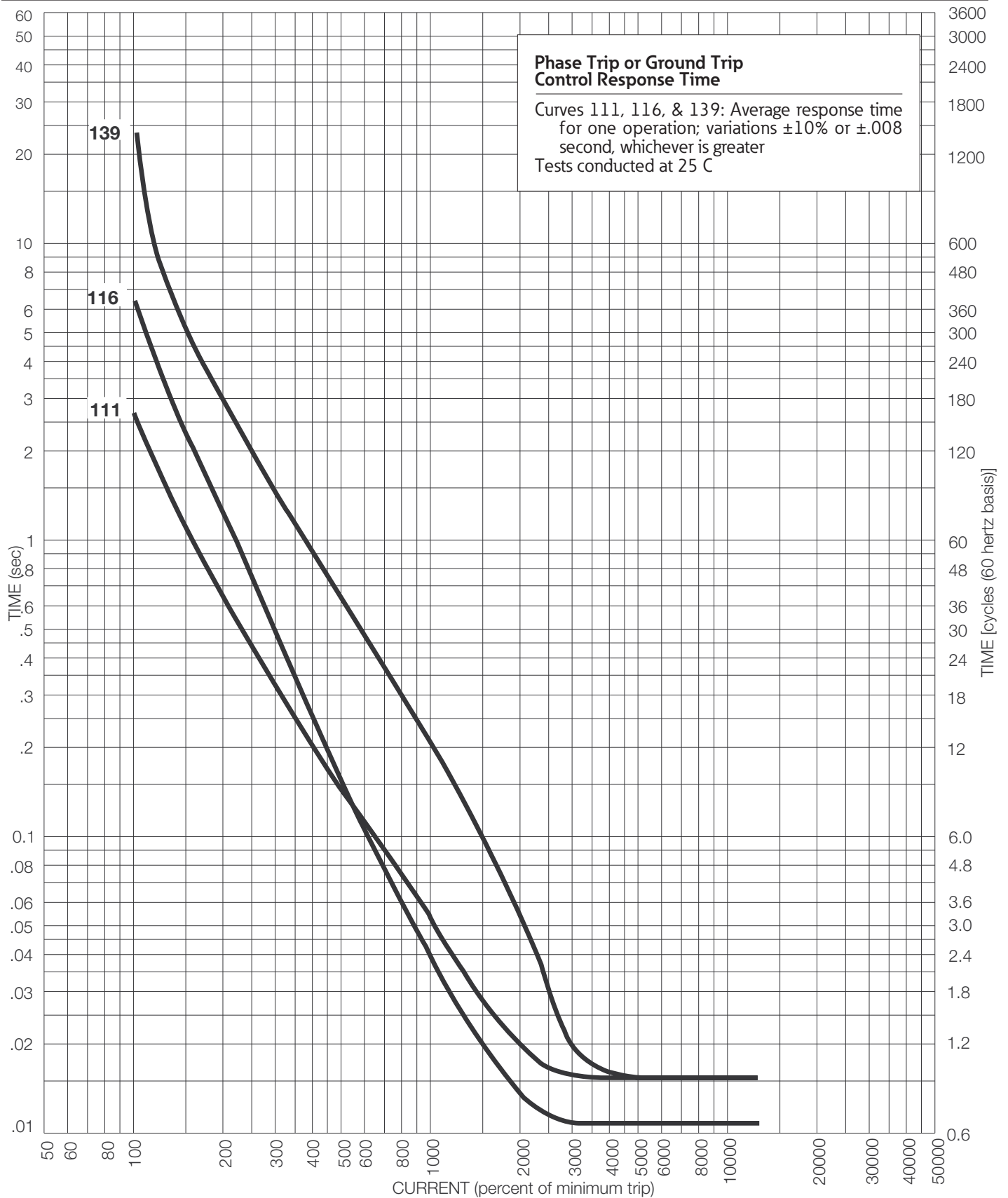
Group 1	Group 2	Group 3	Group 4
101	101	101	101
102	102	102	102
104	104	103	104
105	105	104	105
106	106	105	106
111	107	106	111
114	111	111	114
116	112	115	116
117	113	116	117
119	116	117	119
131	117	120	131
132	118	121	132
133	132	122	133
135	133	132	135
136	135	133	136
138	138	134	138
140	140	135	140
141	152	137	141
142	161	139	200
162	163	140	201
165	164	151	202

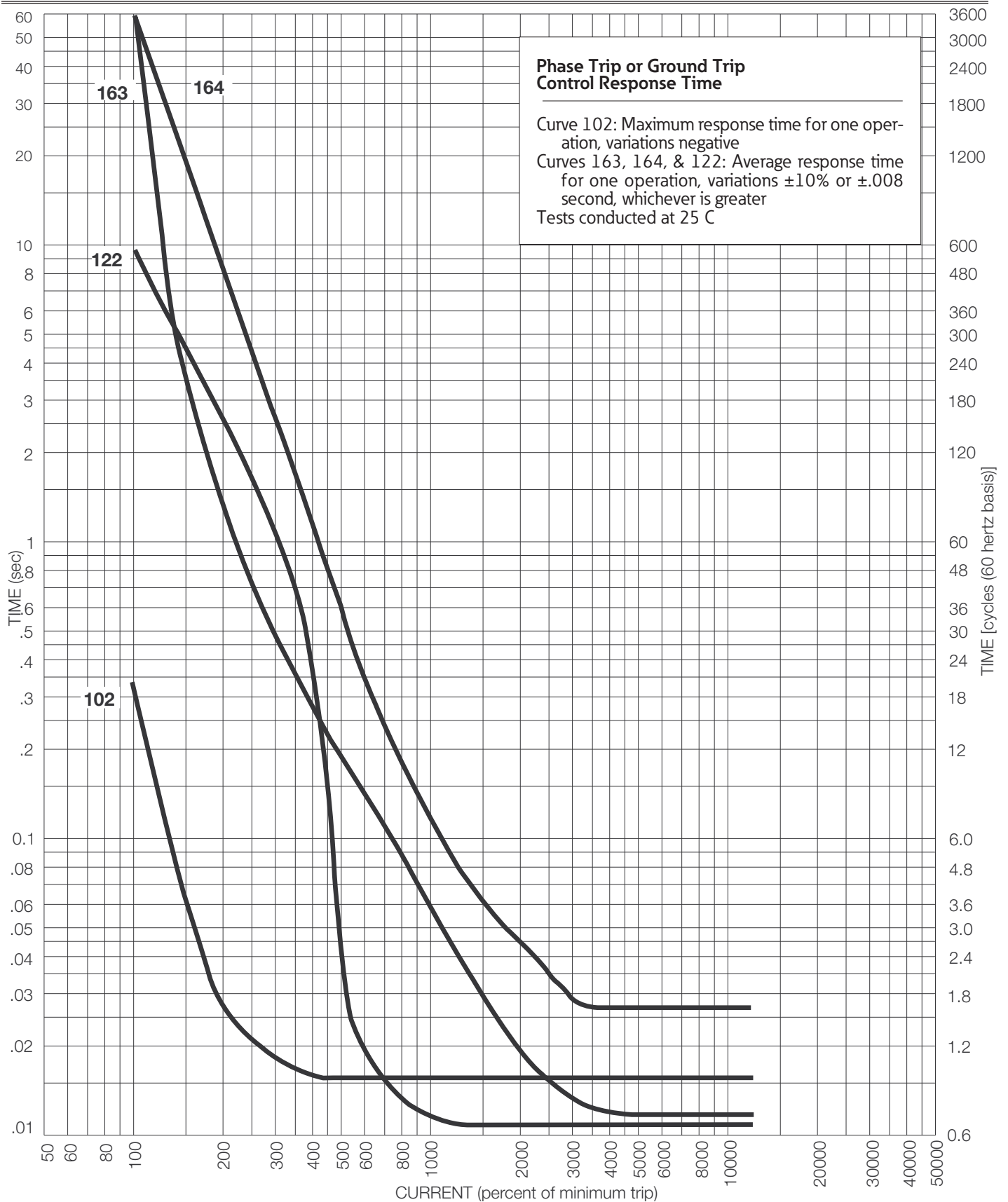
Recloser Clearing Time
Add the following recloser interrupting time in seconds to the control response time to obtain average recloser clearing time; variations ±0.01 second:

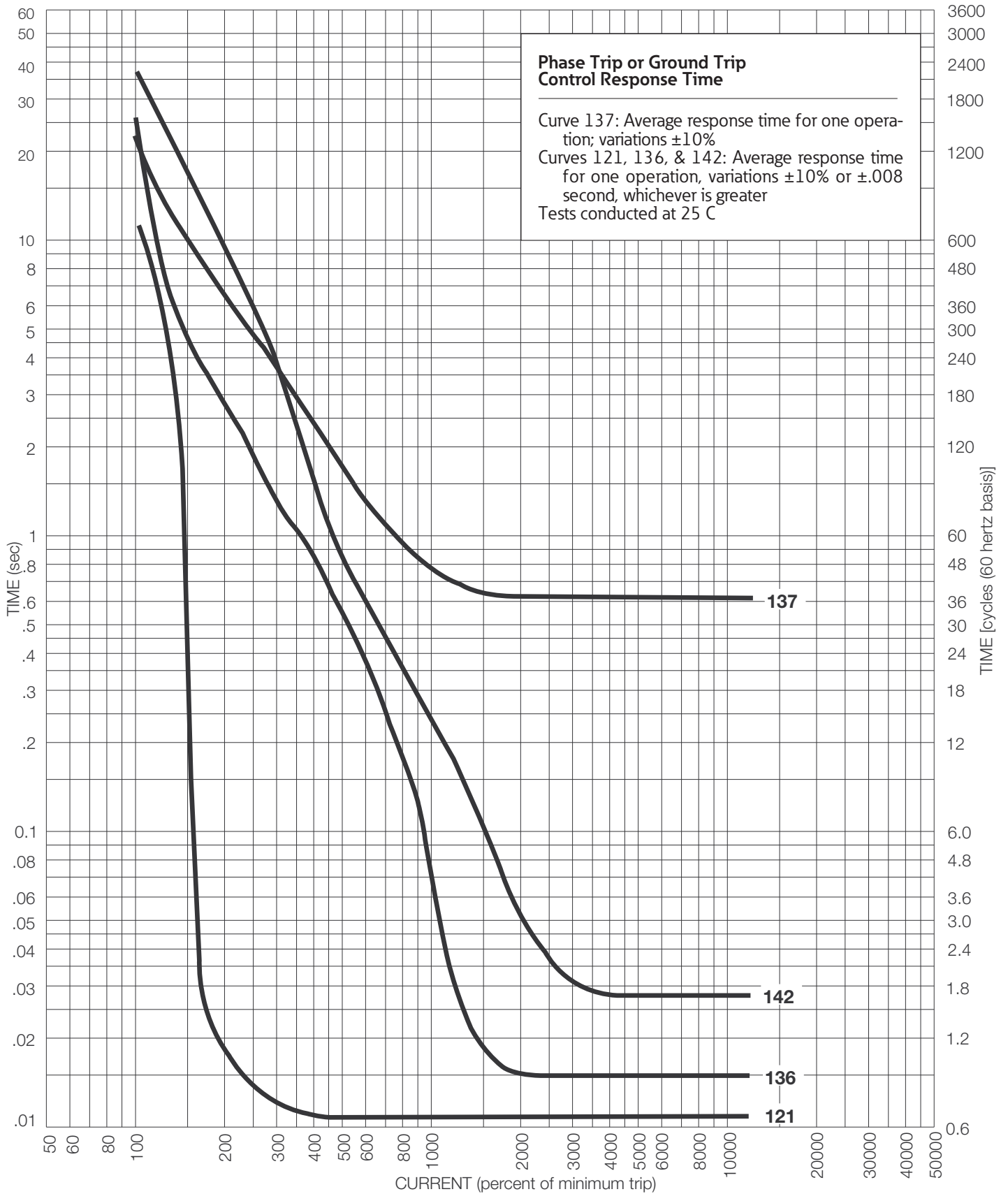
Recloser Type	Interrupting Time
NOVA (ACT II)	0.025
NOVA-TS, NOVA-STTS, SPEAR	0.032
VWE, VWVE27, VWVE38, PWE, PWVE, VWVE38X	0.034
VSA12, VSA16, VSA20, VSA20A, VSA20B, VSAT, VSO12, VSO16, NOVA (ACT I)	0.042
RXE, RVE, WE, WVE, WVE38X	0.045

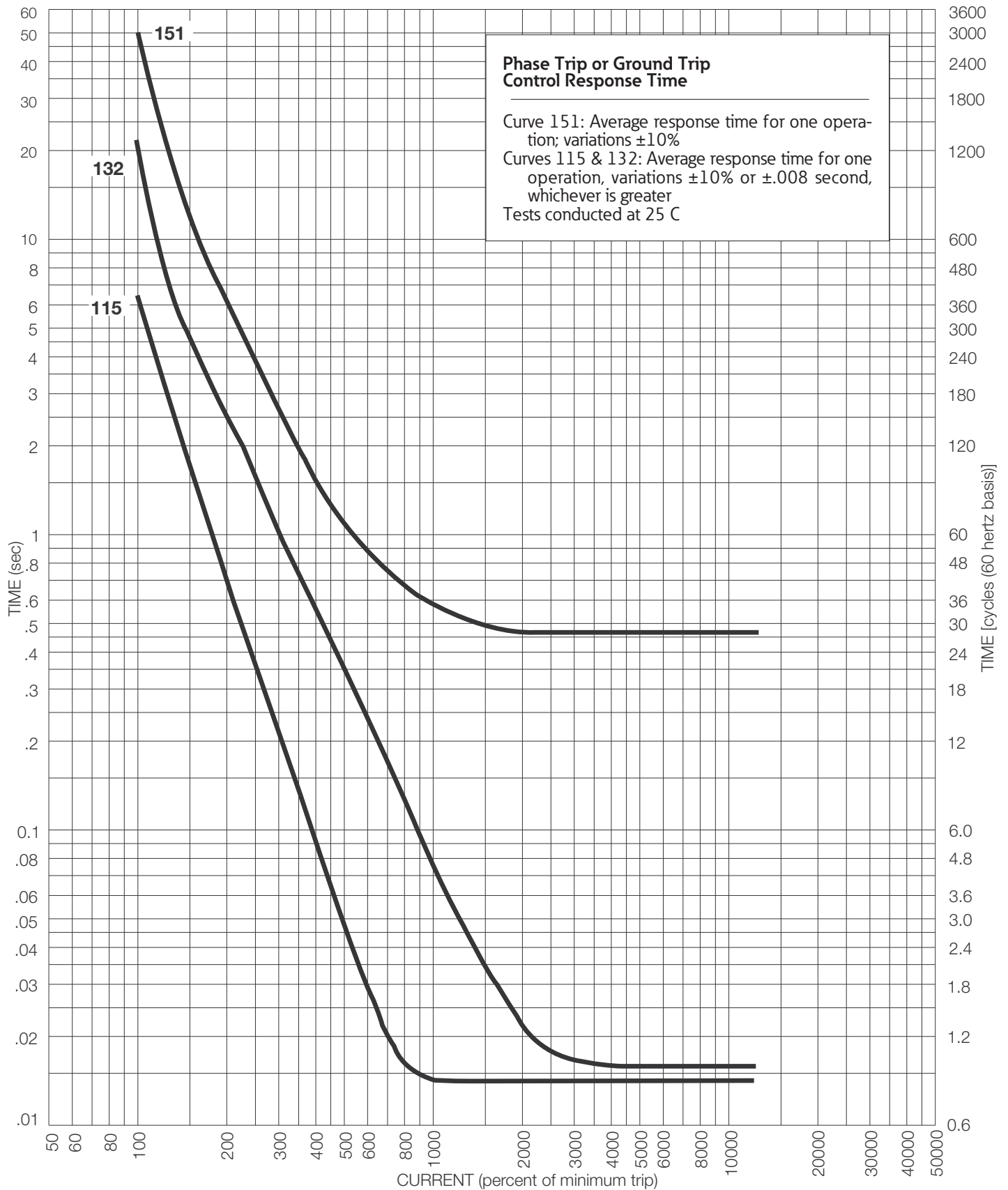


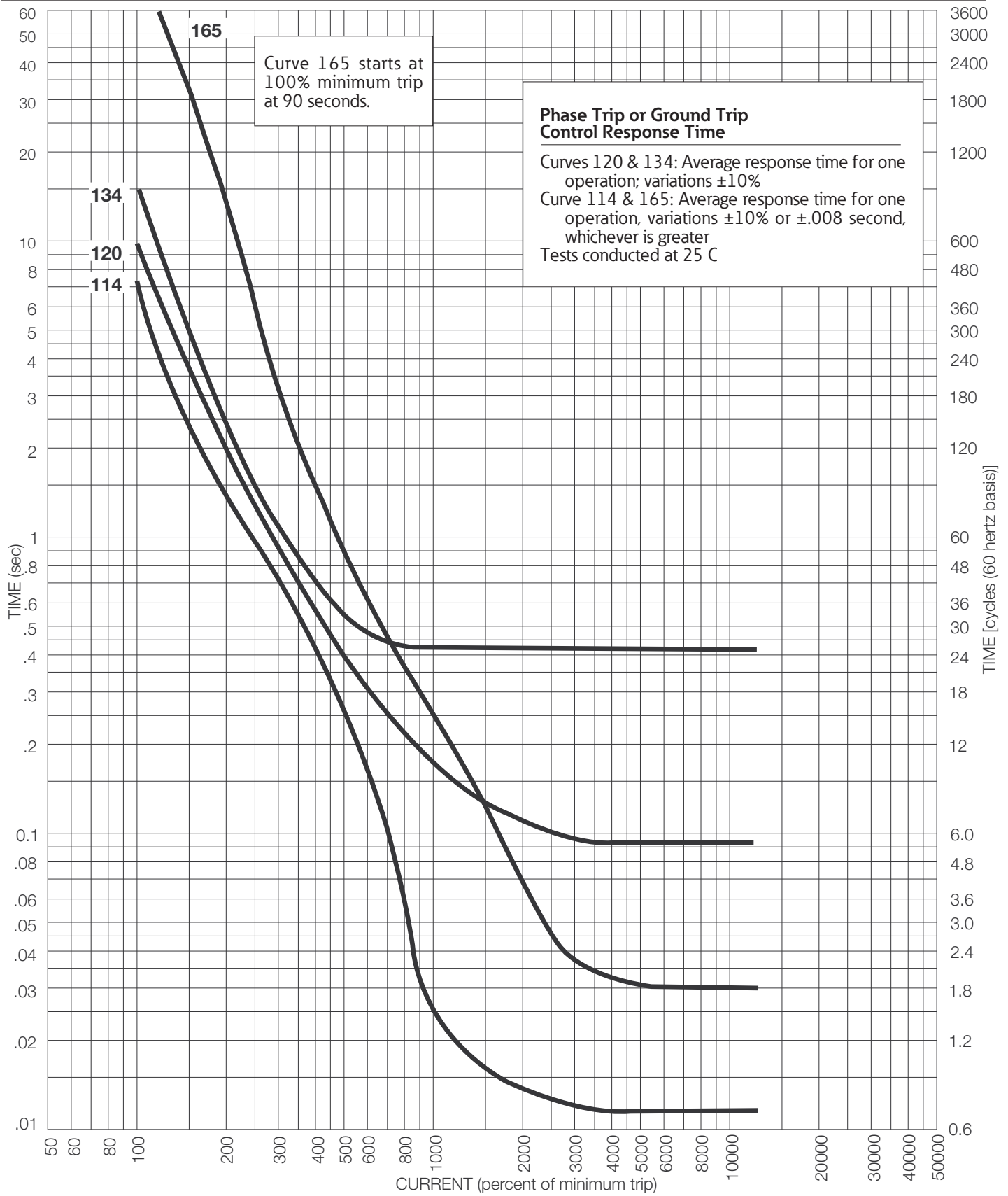


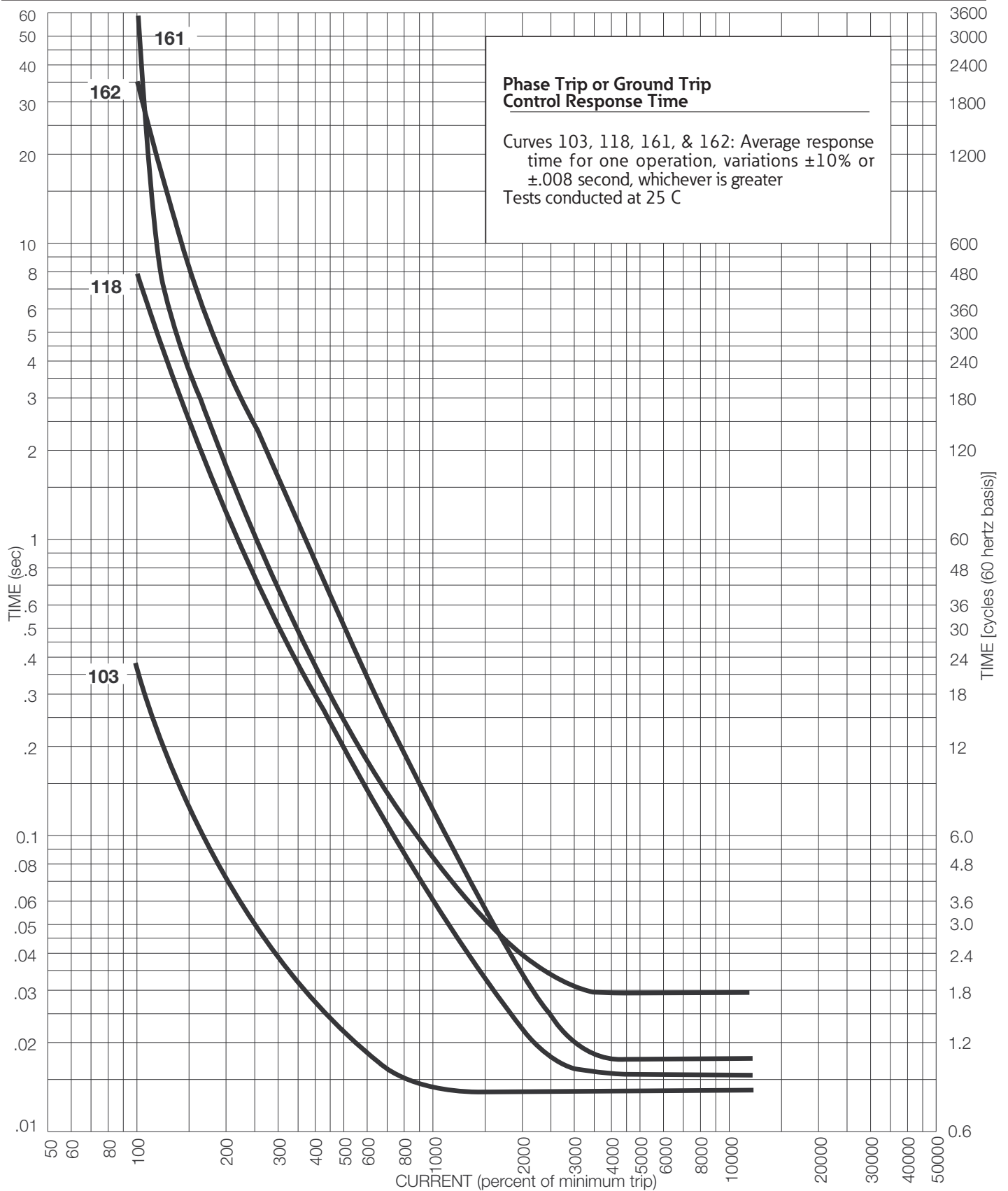


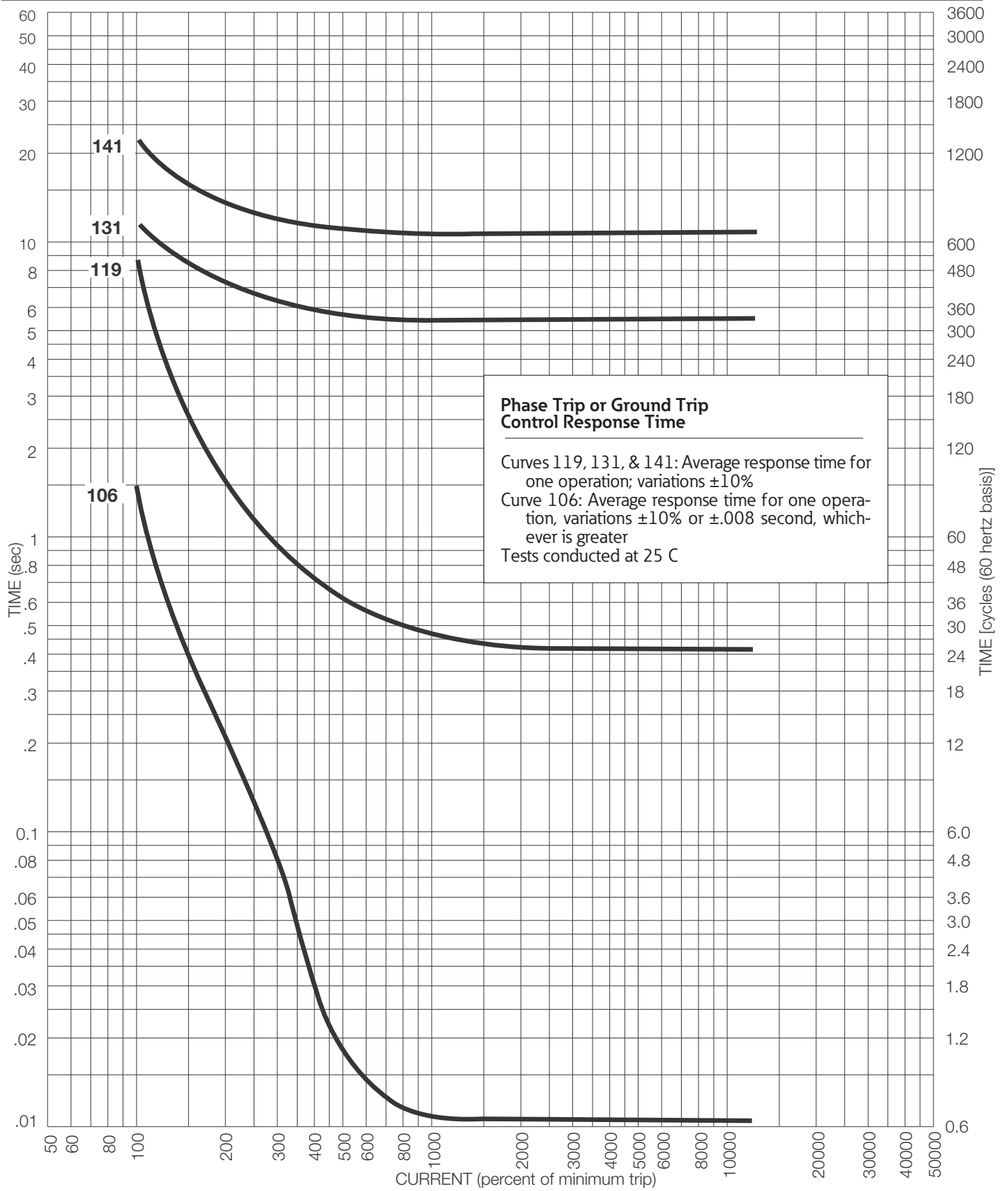


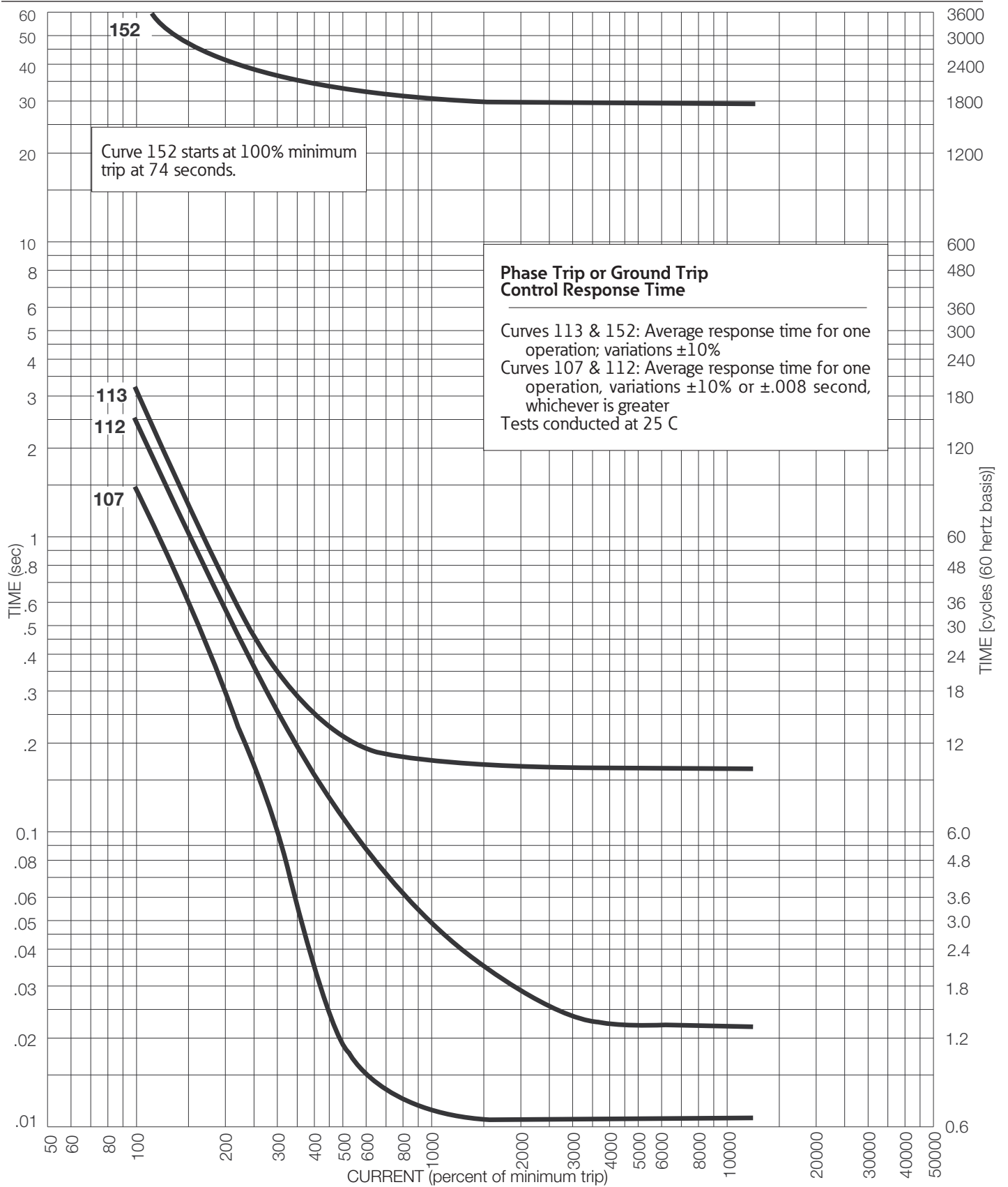


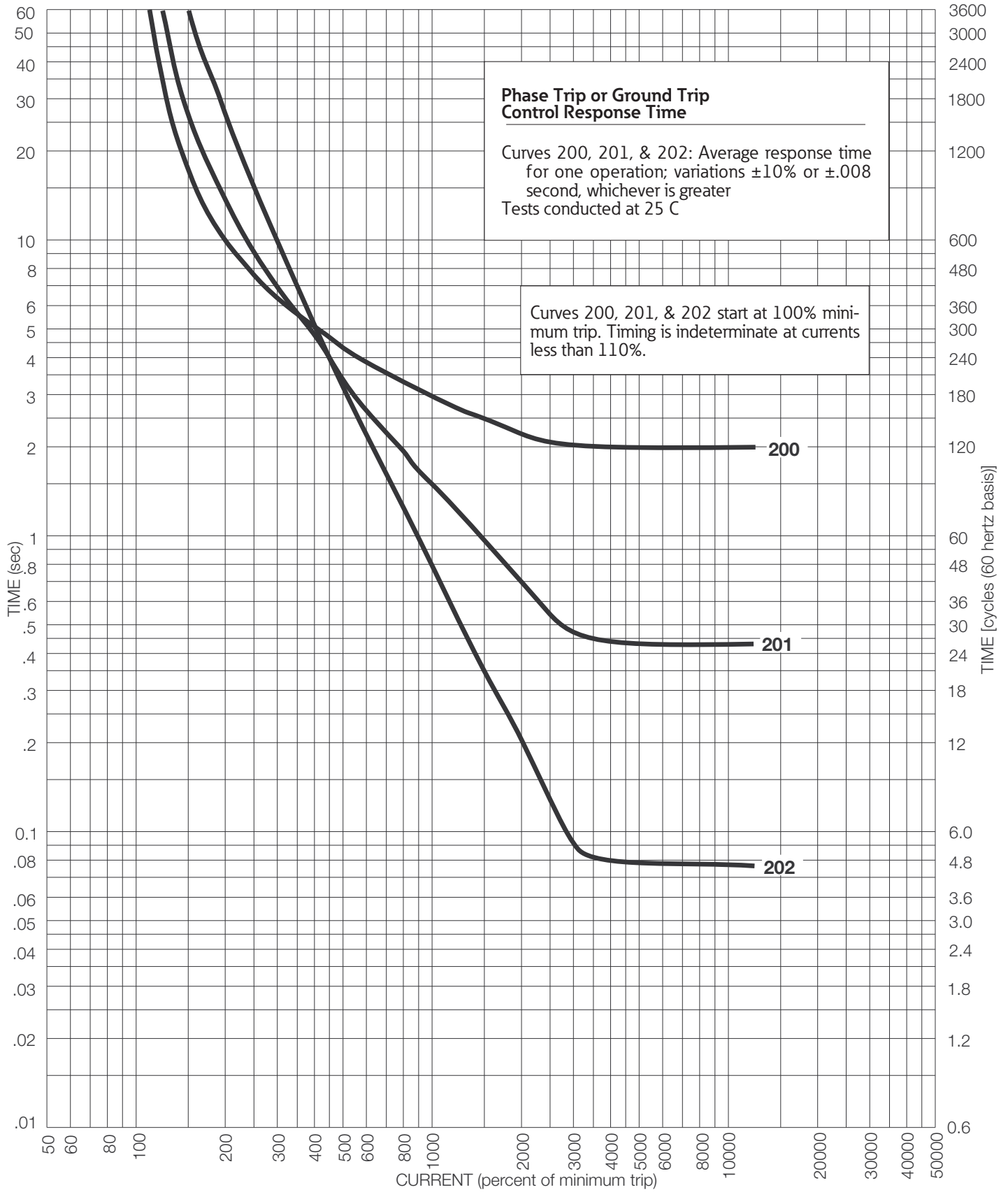


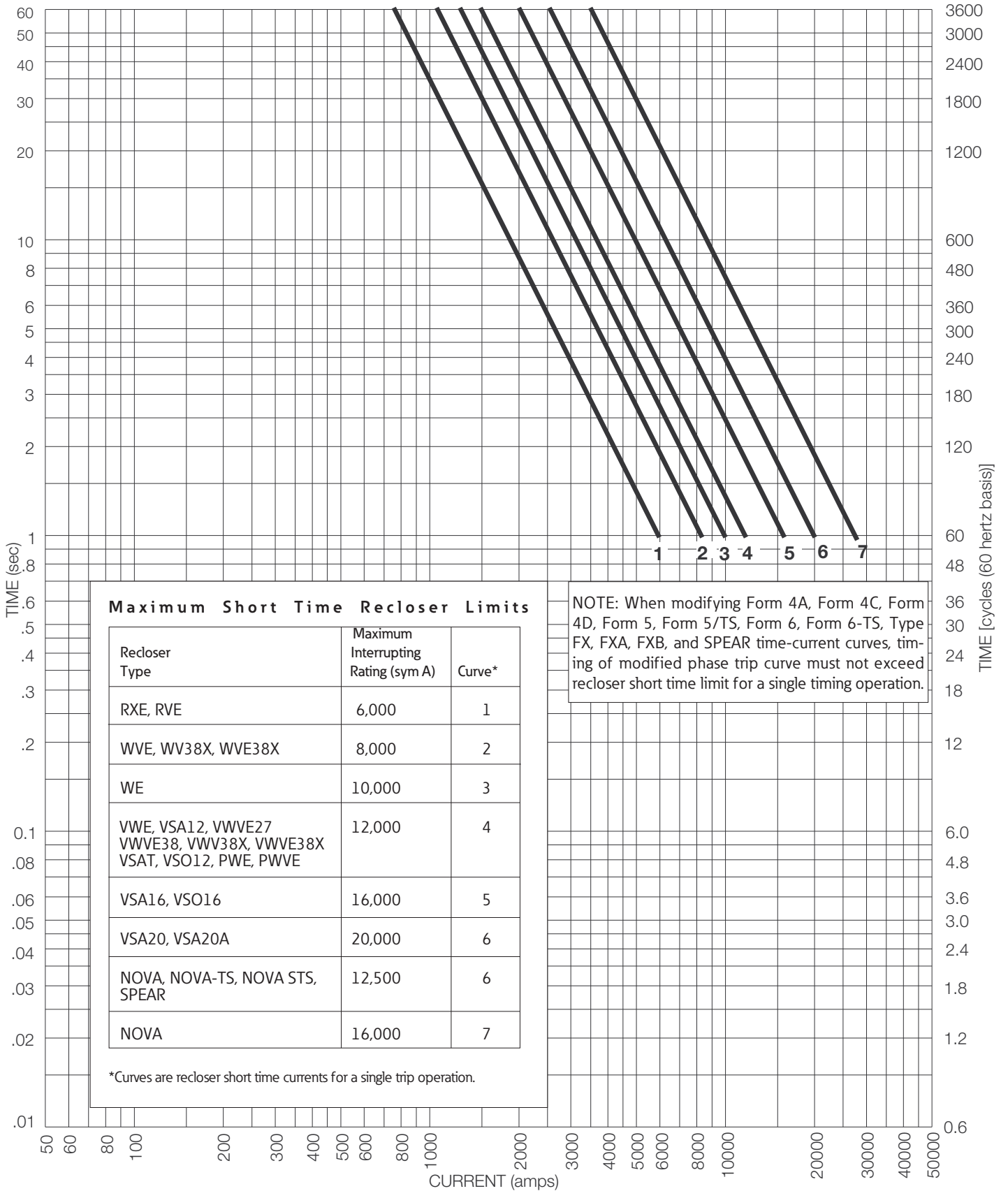












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