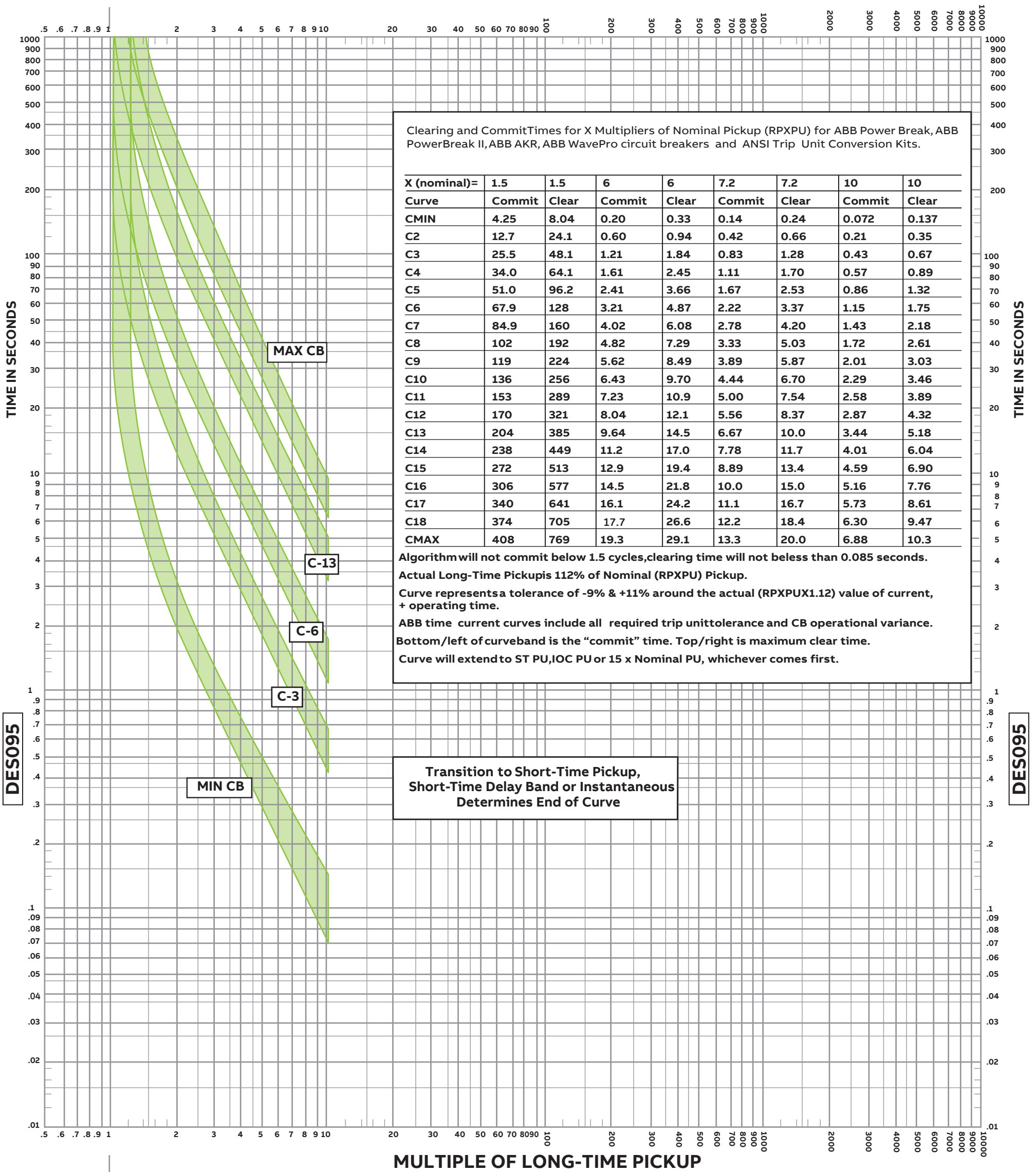


MULTIPLE OF LONG-TIME PICKUP



Clearing and Commit Times for X Multipliers of Nominal Pickup (RPXPU) for ABB Power Break, ABB PowerBreak II, ABB AKR, ABB WavePro circuit breakers and ANSI Trip Unit Conversion Kits.

X (nominal)=	1.5	1.5	6	6	7.2	7.2	10	10
Curve	Commit	Clear	Commit	Clear	Commit	Clear	Commit	Clear
CMIN	4.25	8.04	0.20	0.33	0.14	0.24	0.072	0.137
C2	12.7	24.1	0.60	0.94	0.42	0.66	0.21	0.35
C3	25.5	48.1	1.21	1.84	0.83	1.28	0.43	0.67
C4	34.0	64.1	1.61	2.45	1.11	1.70	0.57	0.89
C5	51.0	96.2	2.41	3.66	1.67	2.53	0.86	1.32
C6	67.9	128	3.21	4.87	2.22	3.37	1.15	1.75
C7	84.9	160	4.02	6.08	2.78	4.20	1.43	2.18
C8	102	192	4.82	7.29	3.33	5.03	1.72	2.61
C9	119	224	5.62	8.49	3.89	5.87	2.01	3.03
C10	136	256	6.43	9.70	4.44	6.70	2.29	3.46
C11	153	289	7.23	10.9	5.00	7.54	2.58	3.89
C12	170	321	8.04	12.1	5.56	8.37	2.87	4.32
C13	204	385	9.64	14.5	6.67	10.0	3.44	5.18
C14	238	449	11.2	17.0	7.78	11.7	4.01	6.04
C15	272	513	12.9	19.4	8.89	13.4	4.59	6.90
C16	306	577	14.5	21.8	10.0	15.0	5.16	7.76
C17	340	641	16.1	24.2	11.1	16.7	5.73	8.61
C18	374	705	17.7	26.6	12.2	18.4	6.30	9.47
CMAX	408	769	19.3	29.1	13.3	20.0	6.88	10.3

Algorithm will not commit below 1.5 cycles, clearing time will not be less than 0.085 seconds.
 Actual Long-Time Pickup is 112% of Nominal (RPXPU) Pickup.
 Curve represents a tolerance of -9% & +11% around the actual (RPXPU x 1.12) value of current, + operating time.
 ABB time current curves include all required trip unit tolerance and CB operational variance.
 Bottom/left of curve band is the "commit" time. Top/right is maximum clear time.
 Curve will extend to ST PU, IOC PU or 15 x Nominal PU, whichever comes first.

Transition to Short-Time Pickup, Short-Time Delay Band or Instantaneous Determines End of Curve



Frames 800-5000A AKR & WavePro
Frames 800-4000A PowerBreak & PowerBreak II
Trip Unit 800-5000A
Conversions Kits

All Voltages: 600 Vac and below

Low-Voltage Circuit Breakers

EntelliGuard TU Trip Unit for PowerBreak, PowerBreak II, AKR and WavePro Circuit Breakers
 UL489 and UL1066 Stored Energy Mechanism Circuit Breakers
 ANSI Trip Conversion Kits

Long-Time CB Characteristics

Curves apply at 60 Hertz and from -20°C to 55°C circuit breaker ambient temperature.

DES095

Nominal Pickup Range
 0.5X-1.0X Trip Rating Plug