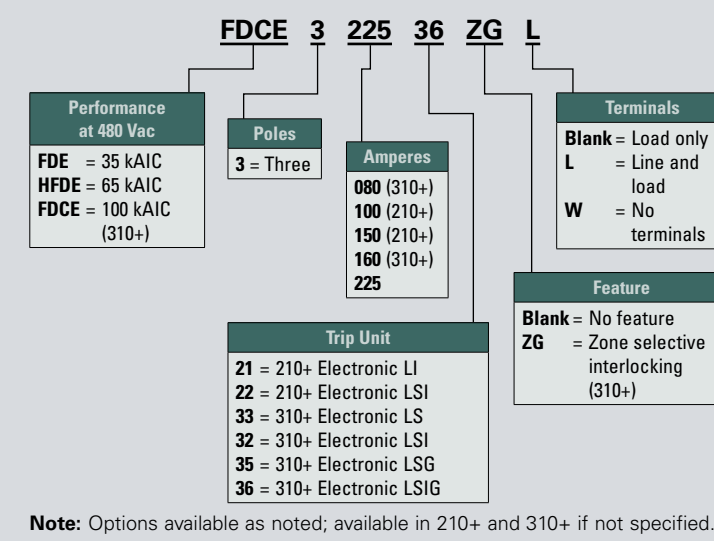
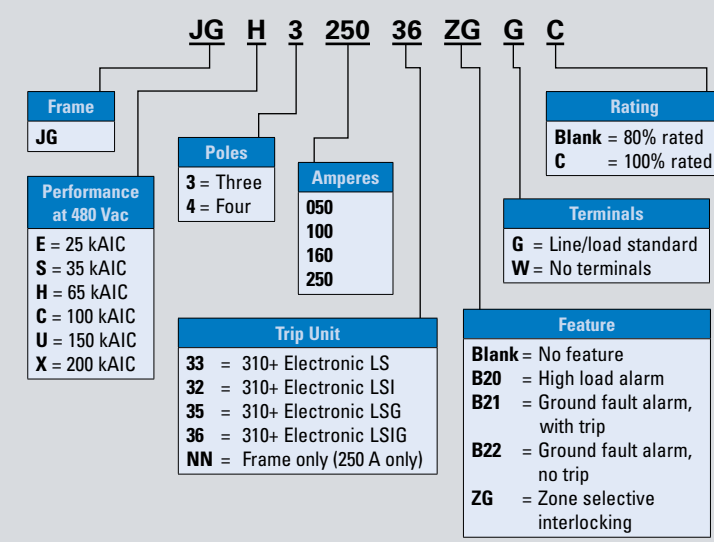


# Catalog numbering systems

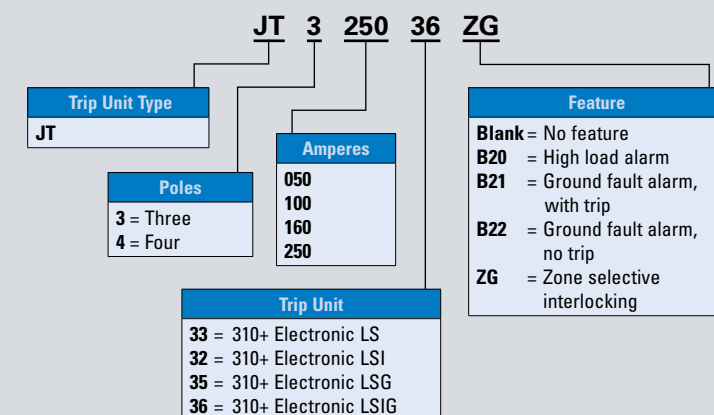
## FD Breaker Assembly



## JG Breaker Assembly



## JG Electronic Trip Unit



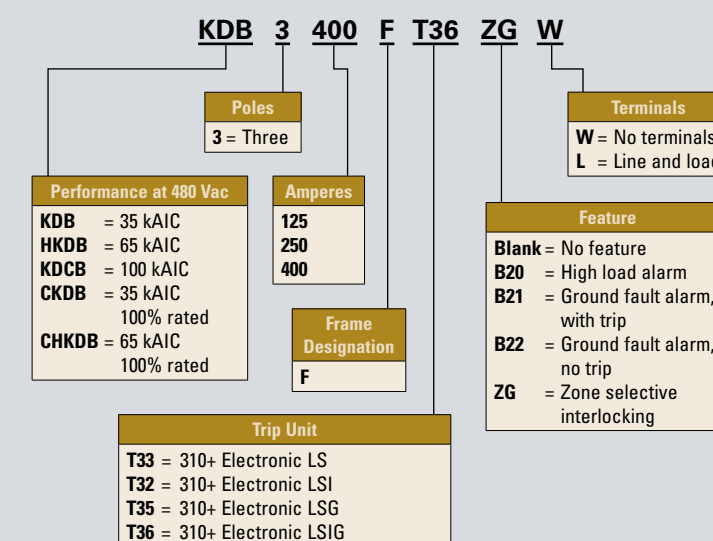
## 310+ configuration notes

**Notes**  
 B21 and B22 features available only with LSG, LSI and ALSIG trip units  
 ArcFlash Reduction Maintenance System™ (Maintenance Mode) and zone selective interlocking (ZSI) are only available with LSI and LSG trip units  
 B2x suffixes cannot be combined with other B2x suffixes; however, they may be combined with suffix ZG  
 LSI, LSG and ALSIG trip units are not available in four-pole breakers with neutral protection  
 Four-pole trip units include fully protected neutral pole; contact Eaton for other four-pole requirements  
 Contact Eaton or check catalog for additional terminal options on all frames

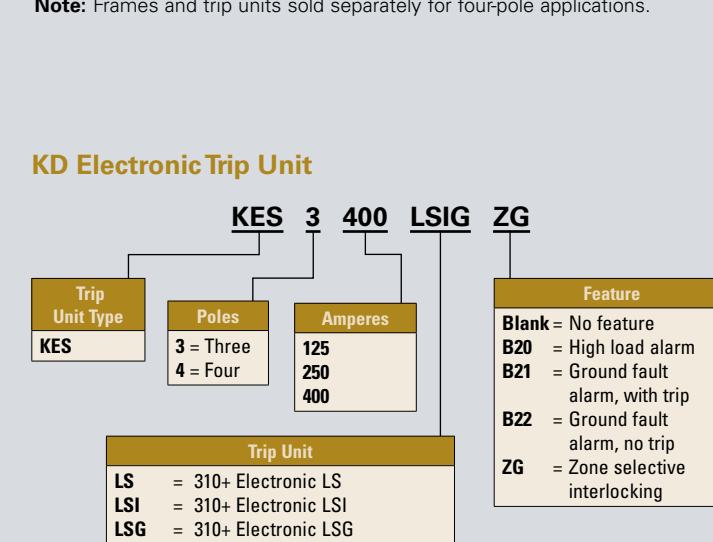
**JG- and LG-specific suffix and accessory configuration notes**  
 Feature suffixes are determined by ETU type as follows:

ETU	B2x Suffix	ZSI Suffix	Suffix Note
33	B20	—	Consumes RH pocket of JG- and LG-Frames
32	B20	ZG	Consumes RH pocket of JG- and LG-Frames
35	B2x	—	Consumes RH pocket of JG- and LG-Frames
36	B2x	ZG	Consumes RH pocket of JG- and LG-Frames
38	B20	ZG	Consumes LH and RH pockets of LG-Frame
39	B2x	ZG	Consumes LH and RH pockets of LG-Frame
NN	—	—	No features for frame-only option

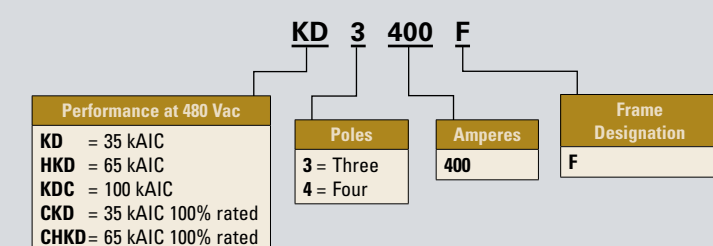
## KD Breaker Assembly



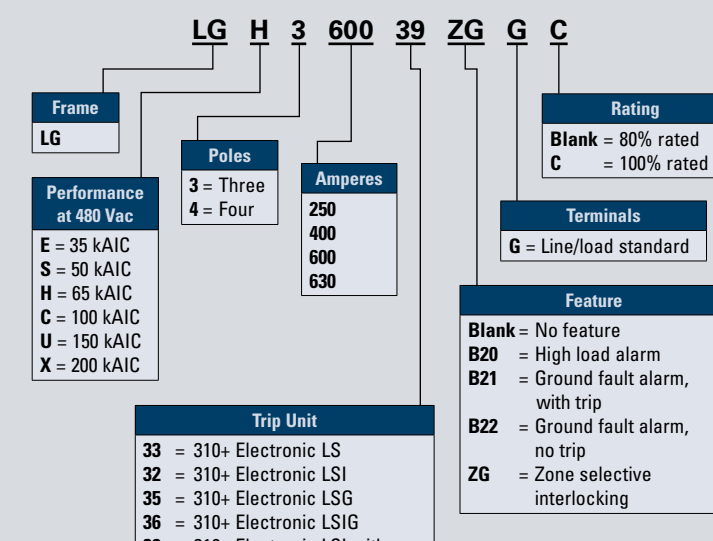
## KD Electronic Trip Unit



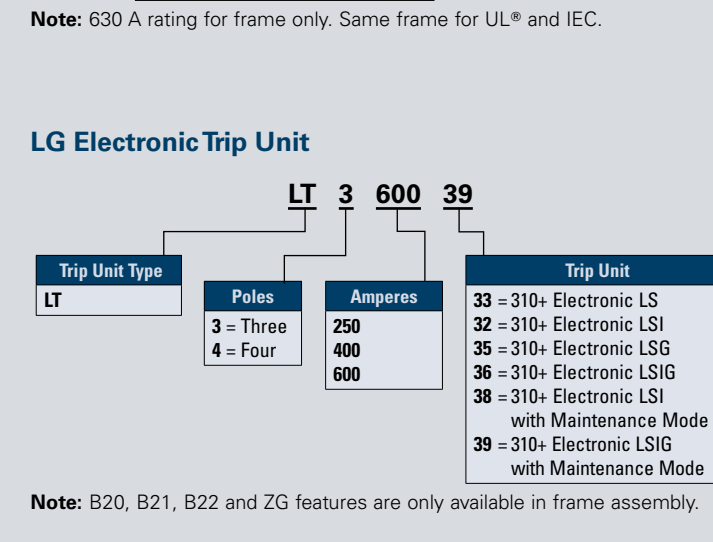
## KD Frame Only



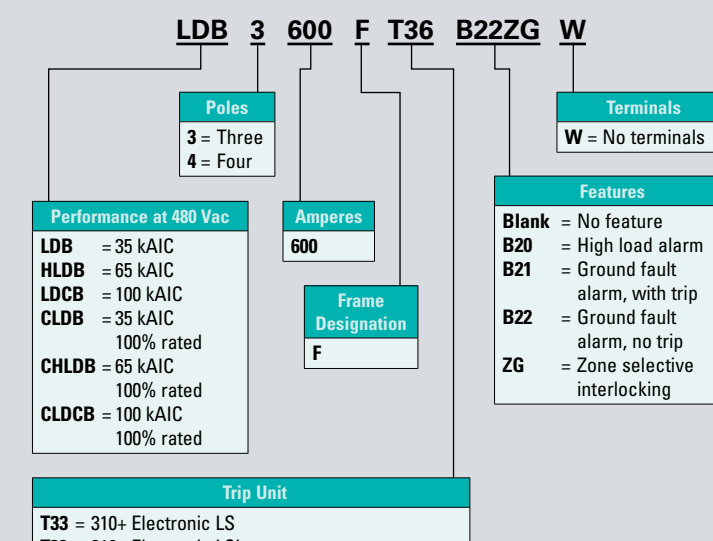
## LG Breaker Assembly



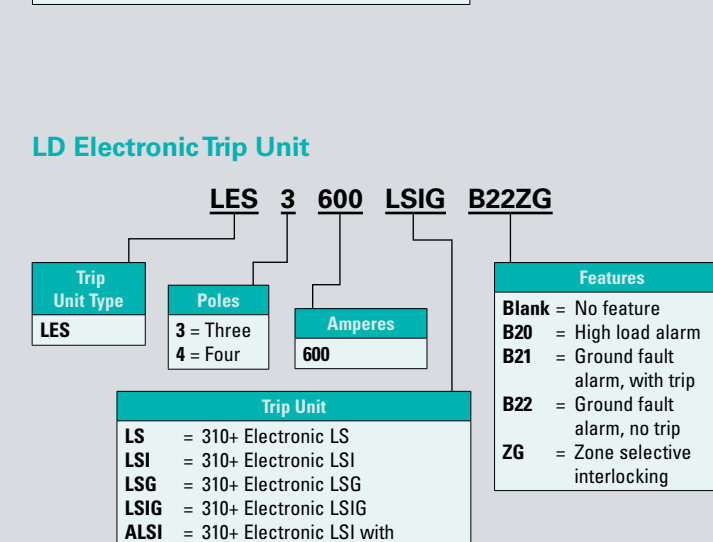
## LG Electronic Trip Unit



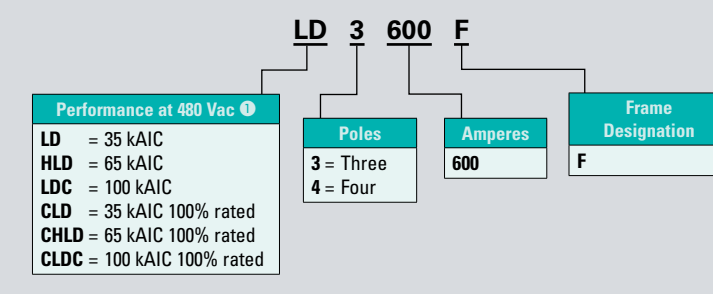
## LD Breaker Assembly



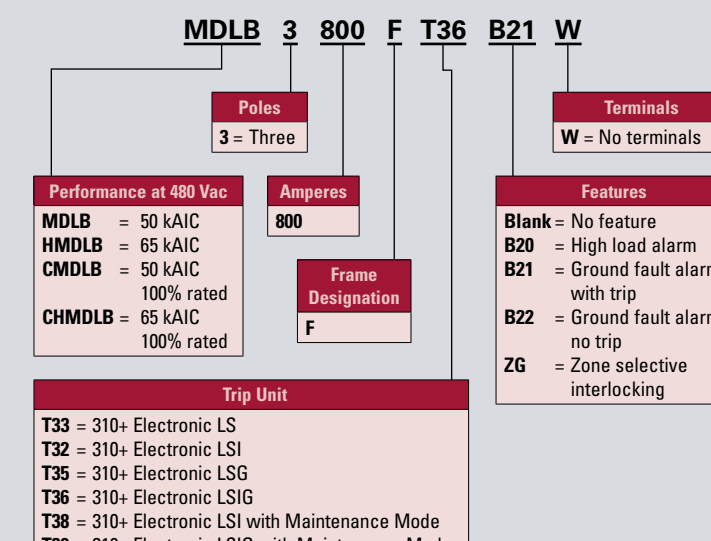
## LD Electronic Trip Unit



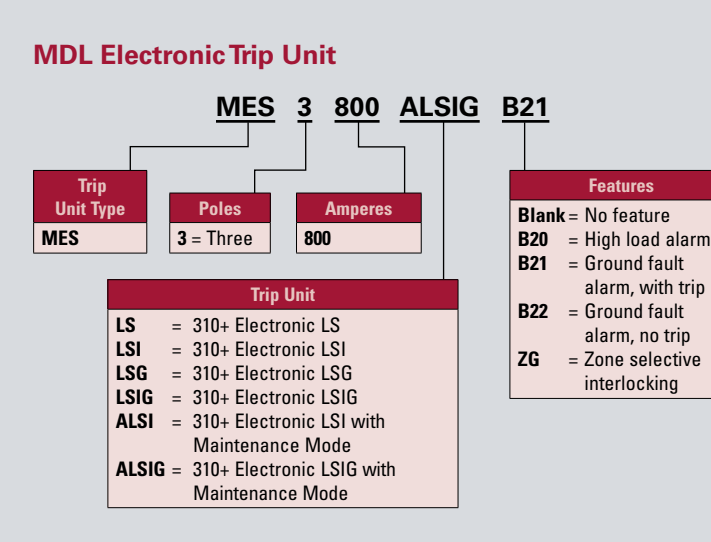
## LD Frame Only



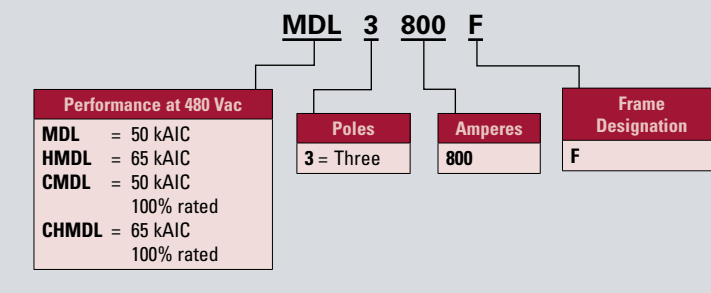
## MDL Breaker Assembly



## MDL Electronic Trip Unit



## MDL Frame Only



# Adjustability specifications

Trip unit settings	210+ frames										310+ frames									
	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD
I <sub>sc</sub> continuous current or long delay pickup (A) (All 310+ and 210+)	100	150	225	300	400	600	800	100	150	225	300	400	600	800	100	150	225	300	400	600
A (4L)	40 A	70 A	100 A	15 A	60 A	100 A	20 A	40 A	63 A	100 A	55 A	250 A	400 A	250 A	400 A	600 A	800 A	1200 A	1600 A	2500 A
B (4L)	50 A	80 A	110 A	20 A	70 A	110 A	20 A	45 A	80 A	125 A	60 A	125 A	200 A	125 A	200 A	300 A	400 A	600 A	800 A	1200 A
C (4L)	60 A	90 A	125 A	30 A	80 A	125 A	25 A	50 A	90 A	150 A	70 A	150 A	225 A	150 A	225 A	315 A	315 A	450 A	450 A	630 A
D (4L)	70 A	100 A	150 A	40 A	90 A	150 A	30 A	63 A	100 A	160 A	80 A	160 A	250 A	160 A	250 A	350 A	350 A	500 A	500 A	700 A
E (4L)	80 A	110 A	175 A	50 A	100 A	160 A	32 A	70 A	110 A	175 A	90 A	175 A	300 A	175 A	300 A	400 A	400 A	600 A	600 A	800 A
F (4L)	90 A	125 A	200 A	60 A	125 A	175 A	40 A	80 A	125 A	200 A	100 A	200 A	315 A	200 A	315 A	450 A	450 A	630 A	630 A	900 A
G (4L)	100 A	150 A	225 A	70 A	150 A	225 A	45 A	90 A	150 A	225 A	110 A	225 A	350 A	225 A	350 A	500 A	500 A	700 A	700 A	1000 A
H (4L)	—	—	—	80 A	160 A	225 A	50 A	100 A	160 A	250 A	125 A	250 A	400 A	250 A	400 A	600 A	600 A	800 A	800 A	1200 A
I <sub>sc</sub> trip delay time (s at 6 x I <sub>sc</sub> ) (All 310+ and 210+ fixed at 10 s)	—	—	—	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2 s
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s	4 s
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s	7 s
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s	10 s
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s	12 s
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s	15 s
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s	20 s
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s	24 s
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150	2 x I <sub>sc</sub> /150
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	2 x I <sub>sc</sub> /300	2 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300	3 x I <sub>sc</sub> /300
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	4 x I <sub>sc</sub> /Inst	4 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst	5 x I <sub>sc</sub> /Inst
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	6 x I <sub>sc</sub> /Inst	6 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst	7 x I <sub>sc</sub> /Inst
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	8 x I <sub>sc</sub> /Inst	8 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst	10 x I <sub>sc</sub> /Inst
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	10 x I <sub>sc</sub> /300	10 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300	12 x I <sub>sc</sub> /300
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	16 A	32 A	45 A	10 A	20 A	32 A	50 A	25 A	50 A	80 A	50 A	80 A	120 A	120 A	160 A	160 A	200 A
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	24 A	48 A	67.5 A	15 A	30 A	48 A	75 A	37.5 A	75 A	120 A	75 A	120 A	180 A	180 A	240 A	240 A	300 A
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	32 A	64 A	90 A	20 A	40 A	64 A	100 A	50 A	100 A	160 A	100 A	160 A	240 A	240 A	320 A	320 A	400 A
I <sub>sc</sub> x I <sub>sc</sub> (ms) - short delay pickup/short delay (210+ LSI)	—	—	—	48 A	96 A	135 A	30 A	60 A	96 A	150 A	75 A	150 A	240 A	150 A	240 A	360 A	360 A	480 A	480 A	600 A
I <sub>sc</sub> x I																				