

CUSTOMER INPUT  
MEDIUM VOLTAGE  
13.8KV, 502AAC  
60Hz, 3PH

CUSTOMER  
UPS-BACKED  
INPUT POWER  
120VAC, 5A  
60Hz, 1PH

INPUT CABINET

TRANSFORMER CABINET

UPSTREAM  
BREAKER

52a

TB2

7

8

TO DRIVE  
CONTROL

TB2

11

12

14

15

TIMV

CIMV

SEE NOTE 2

[SEE NOTE 1]

H1 H2 H3

T1 TRANSFORMER  
VFD POWER CIRCUITRY  
18 x 750 VOLT, 1250AMP  
CELLS W/CELL BYPASS

SEE NOTE 5

CB2  
200A  
22KA @ 600V

CUSTOMER  
PRECHARGE POWER  
600VAC, 60A  
60Hz, 3PH  
SEE NOTE 5

T1 T2 T3

OUTPUT POWER CABINET

L1O L2O L3O

OUTPUT DISCONNECT  
SWITCH CABINETS

T1O T2O T3O

MOTOR METERING CABINETS

M1 M2 M3

M1 M2 M3

M1 M2 M3

M1  
4000HP  
6900V, 317A  
43HZ

M2  
4000HP  
6900V, 317A  
43HZ

M3  
4000HP  
6900V, 317A  
43HZ

[SEE NOTES 2 & 3]

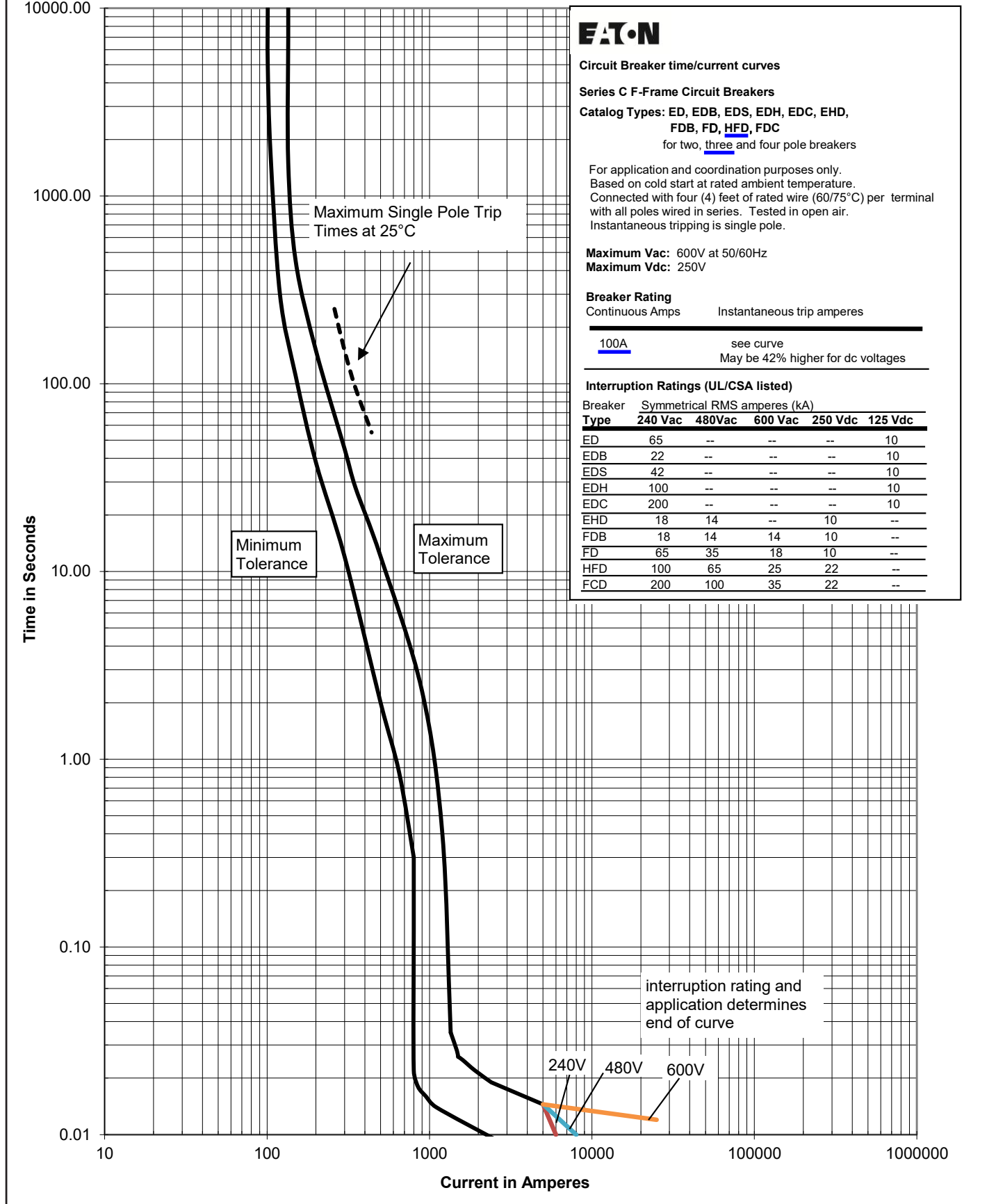
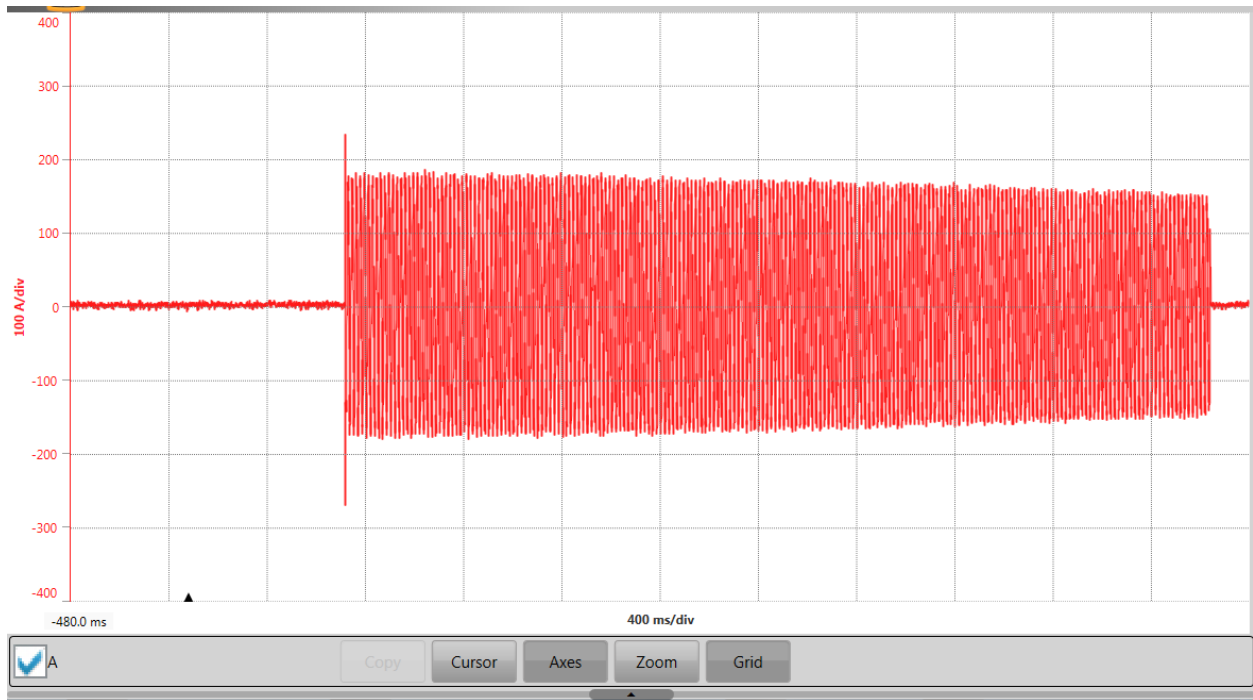


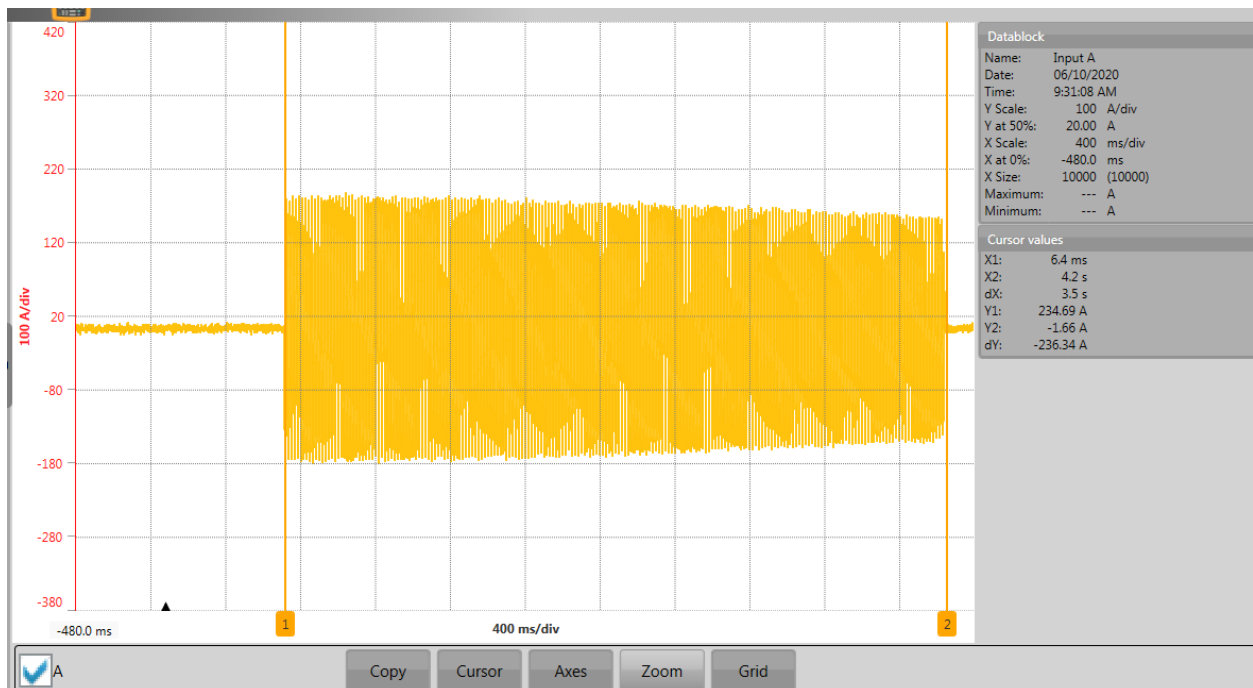
Figure 40. Types ED, EDB, EDS, EDH, EDC, EHD, FDB, FD, HFD, FDC 100A 2, 3 & 4 pole—Curve Number TC012029EN



### **\*\*Third Attempt\*\***

We allowed ~30minutes to de-energized to discharge the capacitors.

The time duration is ~3.52 seconds and then tripped the breaker located in the siemens drive. The peak to peak current is 364Ap-p. Therefore the rms current is ~128A for ~3.5sec.



This is another example of the same waveforms (breaker in drive tripped).