

January 1997  
 Supersedes Application Data 32-870,  
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 Mailed to: E/32-000B, 33-700B

## Characteristic Curves for Types DS/DSL and DSII/DSLII Circuit Breakers With Digitrip RMS 510/610/810/910 Trip Units

**This envelope contains the following time-current curves:**

Curve Description	Curve No.
Typical <b>Instantaneous</b> Time-Phase Current Characteristic Curve based on $I_n$ for Types <b>DS/DSL</b> and <b>DSII/DSLII</b> Circuit Breakers ..... (white) .	SC-5619-93A
Typical <b>Long Delay/Short Delay</b> Time-Phase Current Characteristic Curve based on $I_r$ for Types <b>DS/DSL</b> and <b>DSII/DSLII</b> Circuit Breakers ..... (blue) .	SC-5620-93A
Typical <b>Ground Fault/Protection</b> Time-Current Characteristic Curve based on $I_n$ for Types <b>DS/DSL</b> and <b>DSII/DSLII</b> Circuit Breakers ..... (white) .	SC-5621-93A

Refer to Application Data 36-783 for the DSL and DSLII Limiter Time-Current Characteristic Curves.

### Definitions

$I_n$  is the maximum value of continuous current for which the trip unit can be set.  
 $I_n$  is the basis (or reference) for both the Instantaneous and the Ground protection current settings (white paper for these curves).  
 The value of  $I_n$  is printed on the Rating Plug.

$I_r$  is the basis for both the Long Delay and Short Delay (if provided) protection current settings (blue paper for these curves).  
 The value of  $I_r$  is the Long Delay Current Setting x  $I_n$ .

### Standard Ratings (60 Hz)

Breaker Type		Frame Rating Amperes	Interrupting Capacity, RMS Symmetrical Amperes (kA) with Instantaneous Trip		
			240V	480V	600V
206	308	800A	42,000	30,000	30,000
206H	—	800A	50,000	42,000	42,000
—	508	800A	65,000	50,000	42,000
206E	—	800A	65,000	65,000	50,000
—	608	800A	65,000	65,000	50,000
416	516	1600A	65,000	50,000	42,000
416H	616	1600A	65,000	65,000	50,000
420	620	2000A	65,000	65,000	50,000
632	632	3200A	85,000	65,000	65,000
840	840	4000A	130,000	85,000	85,000
850	850	5000A	130,000	85,000	85,000

**Types DSL (206, 416, 420, 632 and 840) and DSLII (308, 516, 620, 632 and 840) 200kA, 600V ac Max.**