

# The Next Step in Current Limiting



Fused limiters are a solution of the past for 200A and below.

## Description

The current limiting breaker module replaces older fused solutions to enhance the system protection. The breakers have continuous current ratings up to 200A with protection up to 200 kA at 600 VAC.

## Applications

Typical loads include lighting, power distribution, and motor control applications. Current Limiting breakers are commonly applied when very high-fault levels are available, and the current limiting capability is used upstream of the final load to limit current to the load.

## Benefits

Best in class circuit breaker protection plus:

- Increased uptime with post-fault auto reset of the limiter
- Extended ratings for enhanced coordination
- Reduced cost of ownership, no fuses or modules to replace



**Table 1. High Performance Ratings**

Type	Product	Ampere	480Vac (UL)	600Vac (UL)
FDC 3P TM	Breaker only	15-225	100	35
	with Limiter	40-200	200	200



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**Table 2. Eaton Series C - FD Frame**

Ampere Rating	Breaker with Line Side Mounted Current Limiter ❶	Breaker with Load Side Mounted Current Limiter ❷
<b>Thermal Magnetic</b>		
40	FDC3040Q01	FDC3040Q02
45	FDC3045Q01	FDC3045Q02
50	FDC3050Q01	FDC3050Q02
60	FDC3060Q01	FDC3060Q02
70	FDC3070Q01	FDC3070Q02
80	FDC3080Q01	FDC3080Q02
90	FDC3090Q01	FDC3090Q02
100	FDC3100Q01	FDC3100Q02
110	FDC3110Q01	FDC3110Q02
125	FDC3125Q01	FDC3125Q02
150	FDC3150Q01	FDC3150Q02
175	FDC3175Q01	FDC3175Q02
200	FDC3200Q01	FDC3200Q02

- ❶ Two interphase barriers required, mounted on line end of limiter (included).
- ❷ Four interphase barriers required, (2) line end of breaker (2) load end of limiter (included).

**Table 3. Eaton Limiter and Terminals**

Maximum Breaker Amperes	Terminal Body Material	Wire Type	Metric Wire Range mm <sup>2</sup>	AWG Range / Number of Conductors	Catalog Number
<b>Standard Pressure Type Terminals</b>					
250	Aluminum	Cu / Al	10-185	#8-350(1)	TA250FJ

**Table 4. Breaker Load Terminals (for Line Mounted Limiters Only)**

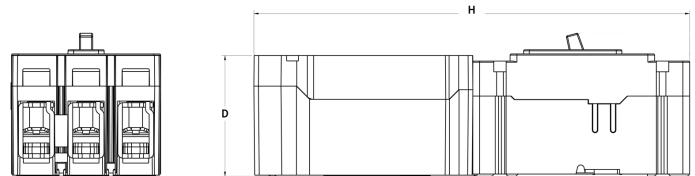
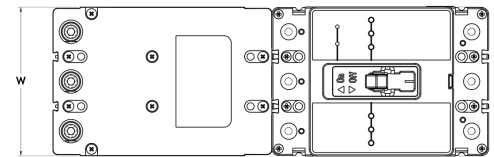
Maximum Breaker Amperes	Terminal Body Material	Wire Type	Metric Wire Range mm <sup>2</sup>	AWG Wire Range	Terminals Catalog Number
<b>Standard Pressure Type Terminals</b>					
100	Steel	Cu / Al	2.5-50	14-1/0	3T100FB
225	Aluminum	Cu / Al	25-95	4-4/0	3TA225FD

Load side breaker terminations included for units configured with line mounted limiters. Interphase barriers included with product, catalog FJIPBK.

**Table 5. Assembled Breaker and Current Limiting Module**

Frame	Height	Width	Depth	Weight in lbs (kg)
FD + Limiter	12.06 (306.3)	4.13 (104.9)	3.39 (86.1)	8.50 (3.86)

Approximate dimensions in inches (mm).



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