


# Min. X/R Ratios to Test Circuit Breakers

$$PF = \cos [\tan^{-1}(X/R)]$$

Protective Devices	Type of equipment	First cycle current	First cycle X/R	Interrupting time or short time X/R
	Low-voltage power circuit breaker (iron frame breaker)	Peak	6.59	6.59
	Low-voltage molded and insulated case breakers with interrupting ratings $\geq 20$ kA	Peak	4.9	4.9
	Low-voltage molded and insulated case breakers with interrupting ratings 10-20 kA	Peak	3.18	3.18
	Low-voltage molded and insulated case breakers with interrupting ratings $< 10$ kA	Peak	1.73	1.73
	Fused low-voltage power circuit breakers	Peak	4.9	4.9
	Low-voltage busway	Peak	4.9	4.9
	High-voltage power circuit breaker	rms	25	15 <sup>17</sup>
	Power fuse	rms	15	—
	Distribution fuse	rms	10	—
	Distribution air cutout fuse	rms	5-15 depends on kV rating	—
	Distribution oil cutout fuse	rms	9-12 depends on kV rating	—
	Switches (withstand rating)	rms	25	—
	High-voltage bus duct		25	—

# Iec Standard For Circuit Breaker Sizing

**Clemens Wendtner**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

**Iec Standard For Circuit Breaker Sizing:**

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