BREAKER TYPES, AND WHERE EACH BELONGS

TYPE B OR TYPE C. DOES IT CHANGE ZS?

The type letter tells you the multiple of rating needed to trip it magnetically, and it is chosen for the load:

TYPE	TRIPS INSTANTLY AT	WHERE IT BELONGS
B	3–5 × I_n	Domestic — most of what you will meet
C	5–10 × I_n	Loads with a higher switch-on surge, such as motors
D	10–20 × I_n	Very high switch-on surges: transformers, X-ray machines, welding equipment

✋ **Type D is not a cure for nuisance tripping.** It needs far more fault current to trip instantly, so its maximum Z_s is much lower and much harder to meet. Choose it for the load, and check the loop impedance will still give the disconnection time.

Where the types are listed.

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· Table 7.2.7(ii) · p.102 .

✋ **Changing the type changes your maximum Z_s.** Table 41.3 has a row per type. A question that says Type C and is answered from the Type B row is simply wrong.

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