PRODUCT OVERVIEW

ABB ReliaHome® ELITE residential circuit breakers

The next generation of residential circuit protection

ABB is introducing a new generation of residential circuit breakers powered by adaptive, machine-learning arc-fault technology. ABB ReliaHome® ELITE circuit breakers use multiple intelligent algorithms to distinguish between normal household activity and true electrical hazards, delivering best-in-class protection while minimizing unnecessary interruptions.

The ABB ReliaHome® ELITE circuit breaker delivers smarter, more reliable protection for modern homes with ABB's trusted engineering using adaptive intelligence with machine learning. Builders, contractors and homeowners benefit from fewer disruptions, reduced costs and long term confidence.

Customer value proposition

- Reliable protection — Adaptive algorithms reduce incompatibilities while responding to real hazards.
- Improved homeowner experience — Quiet, frustration-free protection with fewer interruptions.
- Real-world validation — Models trained on real-world datasets, not simulations, enabling the creation of more accurate and improved algorithms.
- ABB quality — Engineered by a globally trusted leader in power and protection.

The ABB ReliaHome® ELITE platform stands apart yet comes in a familiar, easy-to-install design. The result is smarter protection, long term reliability and a breaker that will evolve with real-world needs.

Why ABB ReliaHome® ELITE stands apart

- High frequency ground fault protection — Aligned with NEC 2026 and UL requirements, uses faster, higher bandwidth sensing to detect leakage currents that older GFCI technology could misinterpret.
- Machine learning platform — Advanced machine-learning algorithms trained to recognize the difference between true electrical arc hazards and normal household activity.
- Familiar form factor — Same footprint and installation process — no new tools, training or workflow disruption.
- ABB engineering expertise — Backed by ABB's proven global innovation in electrical protection.
- Reliability by design — Advanced technology maintains power continuity without compromising safety.
- Continuous improvement — Field diagnostics drive future enhancements to meet evolving home demands.

ENGINEERED
TO OUTRUN

ReliaHome® Elite circuit breakers

Arc fault and dual function

THQL1120PAX

Arc fault circuit interrupter (AFCI)

- Combination AFCI are compliant with the 2026 National Electrical Code and beyond, designed to protect against overloads, short circuits, parallel arcs and series arcs.

		1-pole, 120/240 V AC	1-pole, 120/240 V AC
		Pigtail	Plug-on neutral
	Ampere rating	Ordering code	Ordering code
10,000 AIC	15	THQL1115AX	THQL1115PAX
	20	THQL1120AX	THQL1120PAX
20,000 AIC	15	THHQL1115AX	THHQL1115PAX
	20	THHQL1120AX	THHQL1120PAX

THQL1120PDX

Dual function circuit interrupter (DFCI)

- DFCI breakers are designed to protect against overloads, short circuits, 5 mA and greater ground faults, parallel arcs and series arcs, combining multiple protections in one simple-to-install device. The arc fault protection is in compliance with the 2026 National Electrical Code and beyond.

		1-pole, 120/240 V AC	1-pole, 120/240 V AC
		Pigtail	Plug-on neutral
	Ampere rating	Ordering code	Ordering code
10,000 AIC	15	THQL1115DX	THQL1115PDX
	20	THQL1120DX	THQL1120PDX
20,000 AIC	15	THHQL1115DX	THHQL1115PDX
	20	THHQL1120DX	THHQL1120PDX

Built for today's homes and tomorrow's

ABB ReliaHome® ELITE circuit breakers are more than protection devices, they are a smarter foundation for residential electrical systems, designed to continue adapting and evolving as homes become more complex.

ABB ReliaHome® — Confidence you can install. Protection homeowners can trust.

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1TQC2636E0001 Rev B 6.2026