BL!XT Zero

A miniature solid-state AC and DC circuit breaker

Infineon Associated Partner



The BL!XT Zero is a miniature solid-state AC and DC circuit breaker designed with advanced semiconductor technology, operating effectively as a 1P+N (single phase plus neutral, non-breaking neutral) at 16A, 230V AC. Its software-controlled switching operates 1,000 times faster than traditional mechanical breakers, significantly enhancing electrical safety and operational precision.

Enabled by



CoolMOS™ S7.
The 600V CoolMOS™ S7 is an ultra-efficient superjunction MOSFET optimized for low-loss static switching.

Its unique capability includes

- ultra-fast switching: Semiconductor-based switching provides instant response and superior protection
- real-time energy analytics: Sampling from 100Hz to 5kHz enables precise energy monitoring, sub-metering, and optimization
- remote & automated control: Facilitates intelligent management of local energy sources, storage solutions, and loads, outperforming conventional smart devices
- advanced safety: Supports robust, enforced high-current safety limits suitable for both AC and DC environments (e.g., EV chargers, heat pumps)
- future-proof design: Programmable software with over-the-air (OTA) updates allows dynamic adaptation to new services, regulatory compliance, and operational adjustments

BL!XT Zero empowers transformative electricity management with comprehensive real-time energy insights and advanced load control. It substantially enhances reliability, safety, and sustainability—optimally meeting the demands of Industry 4.0 and modern infrastructure.

Target applications



Infineon

BL!XT

Technical specs BI!XT Zero

Technical properties	
Short circuit breaking capacity	10kA
Current (nominal)	16A
Operational AC voltage	230V
Number of Poles	1P + N (not tripped)
Impulse withstand voltage	4kV
Tripping curve	Programmable
Form factor	DIN
Metering sampling rate	100Hz – 5khz
Standards	coming soon
Connectivity	
Ports	Ethernet
Protocols	IPv4, (IPv6 on request), TCP, UDP, SSL (optional)
Dimensions	
Width (w/o MCB)	39mm
Height	98mm
Depth	69mm

Discover more

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