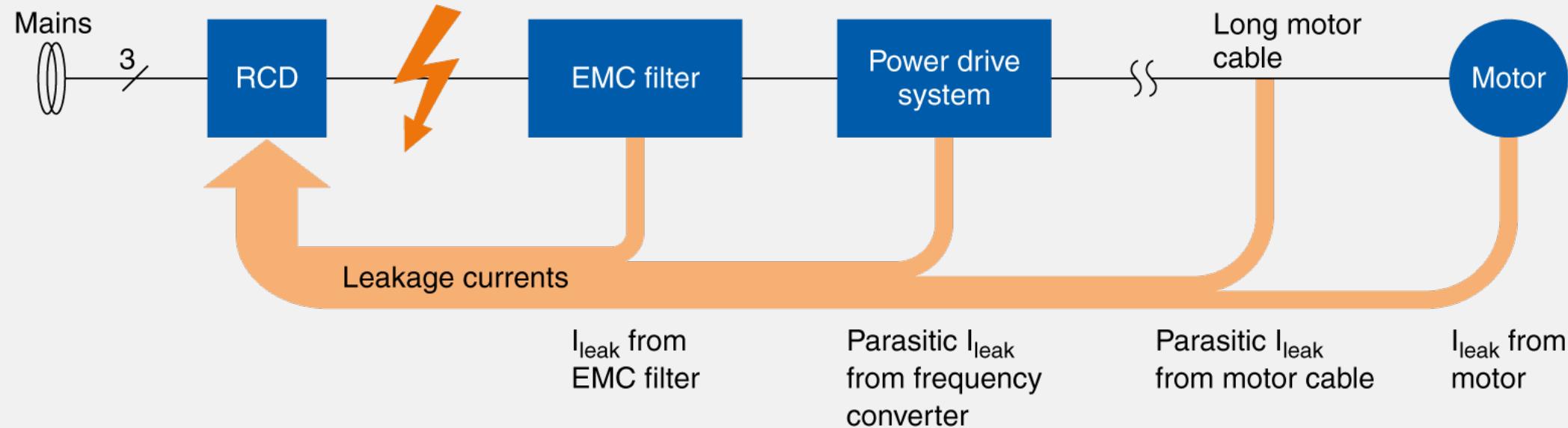


LeaXield™ active leakage current filter



Earth leakage currents – A cost and safety risk



- High earth leakage currents are typical for variable-speed drives
- RCDs (residual current devices) often trip by mistake

- Machine downtimes can lead to high costs
- Plant availability is not ensured



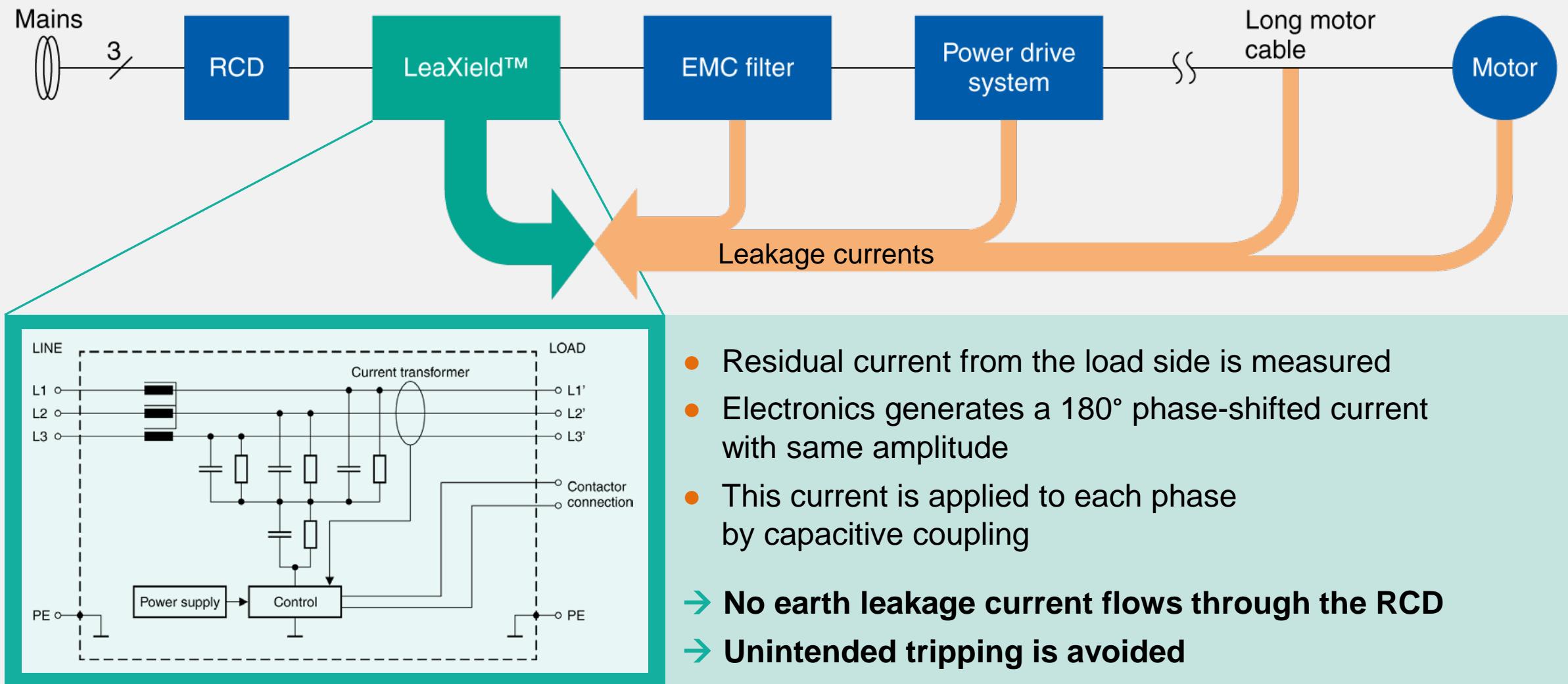
A compact and economic solution is needed!

Introducing LeaXield™

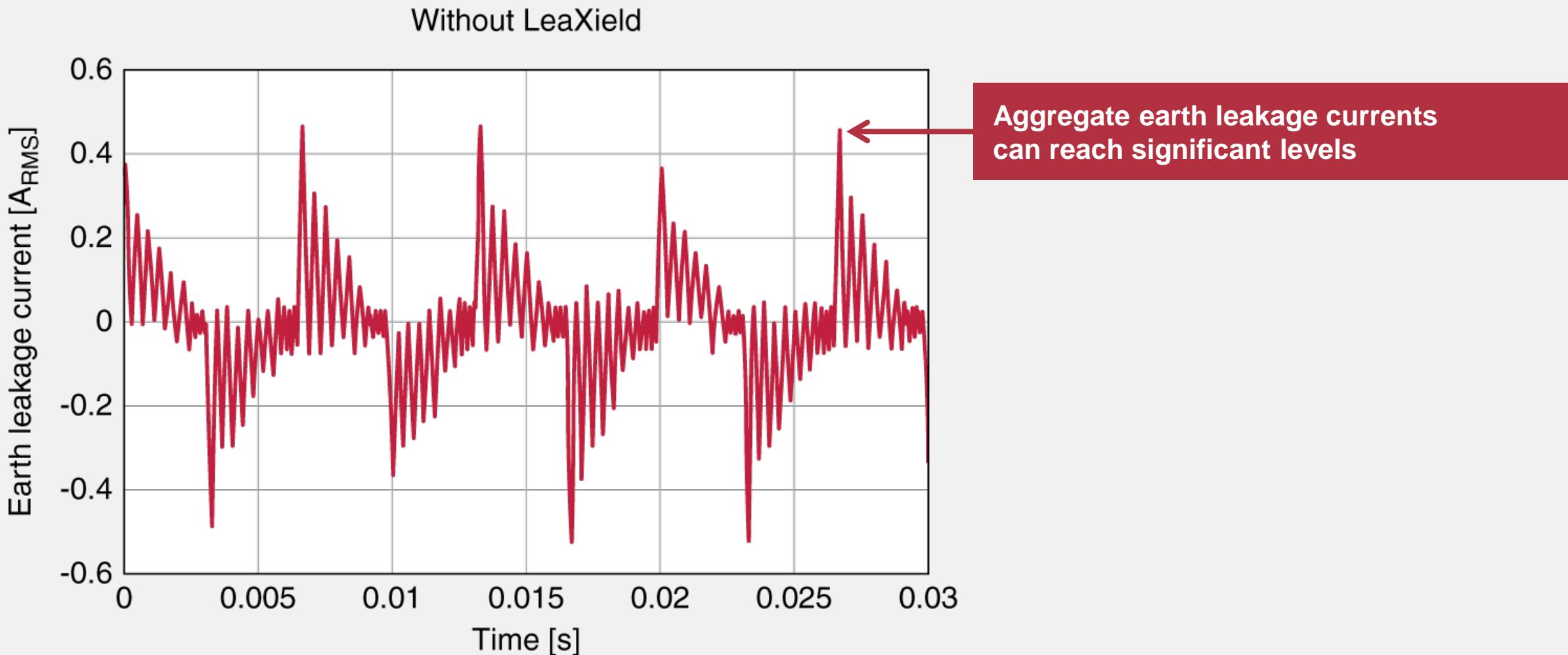


- Active compensation of earth leakage currents over a broad frequency range
- Installed between the RCD and the EMC filter
- No additional power supply needed
- Very convenient installation, especially in existing systems

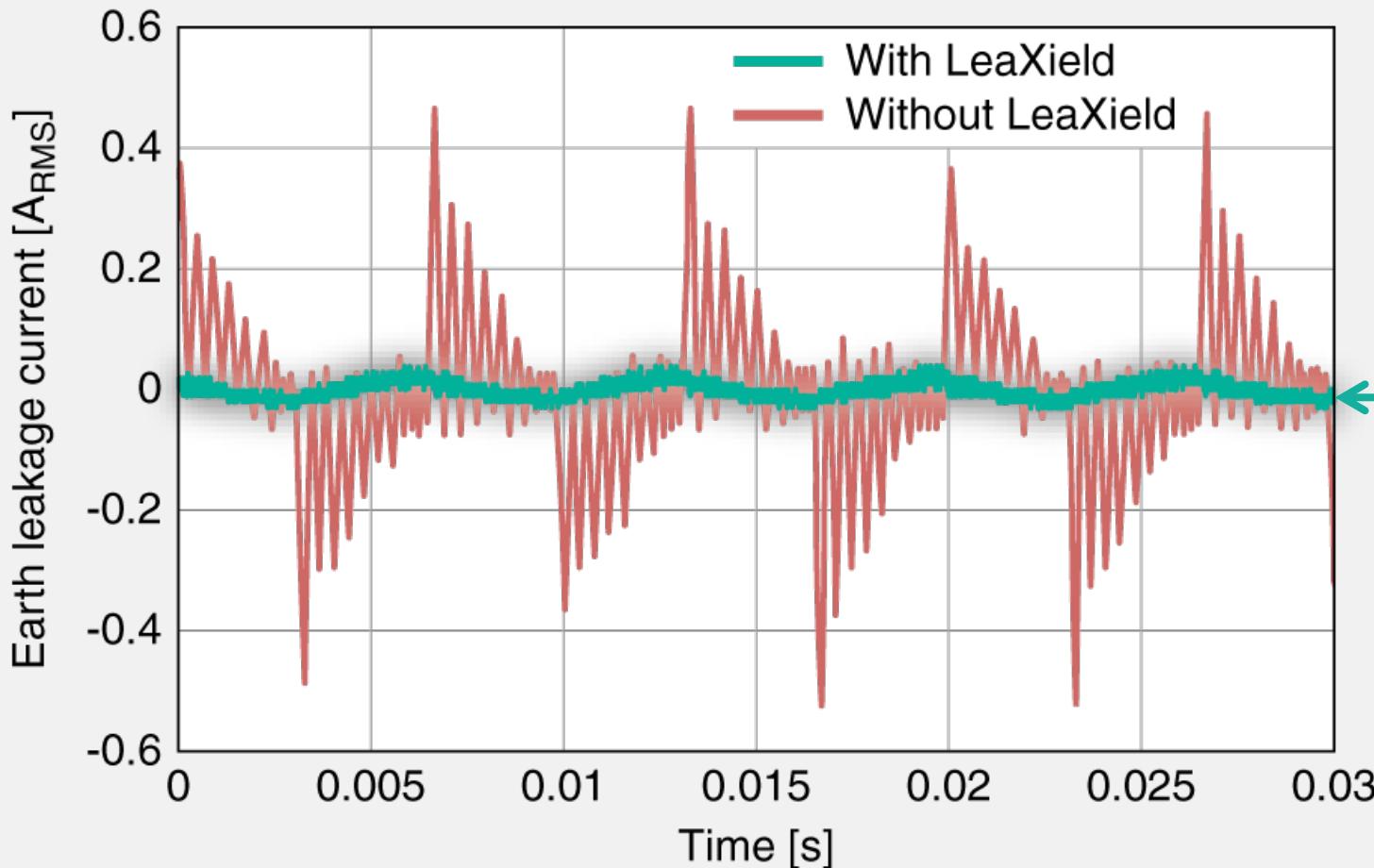
Functional principle of LeaXield™



Drastic reduction of earth leakage currents



Drastic reduction of earth leakage currents

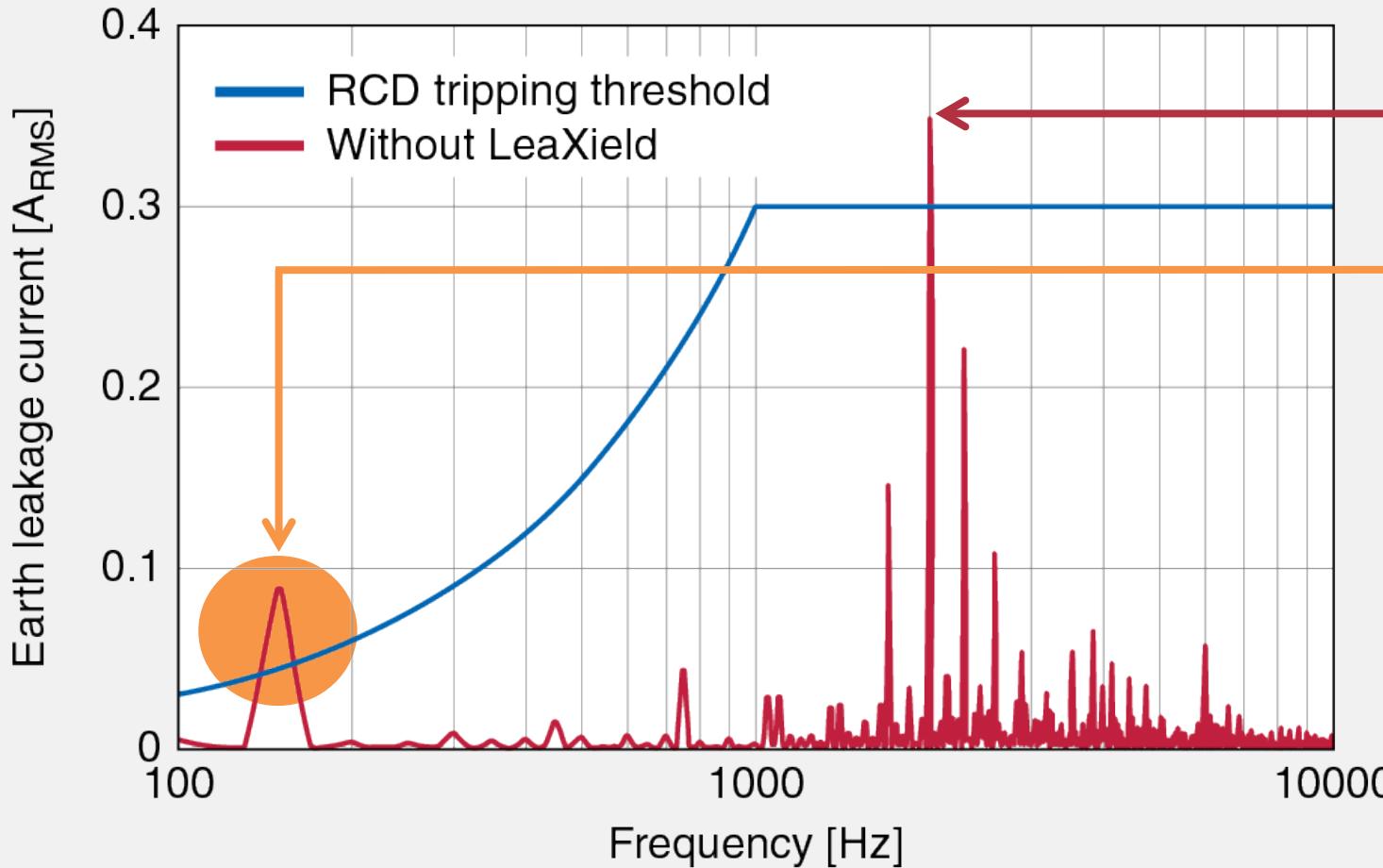


Aggregate earth leakage currents can reach significant levels

LeaXield™ effectively compensates earth leakage currents of up to 1 A

Effective leakage current compensation from 150 Hz up to 30 kHz

Attracting Tomorrow

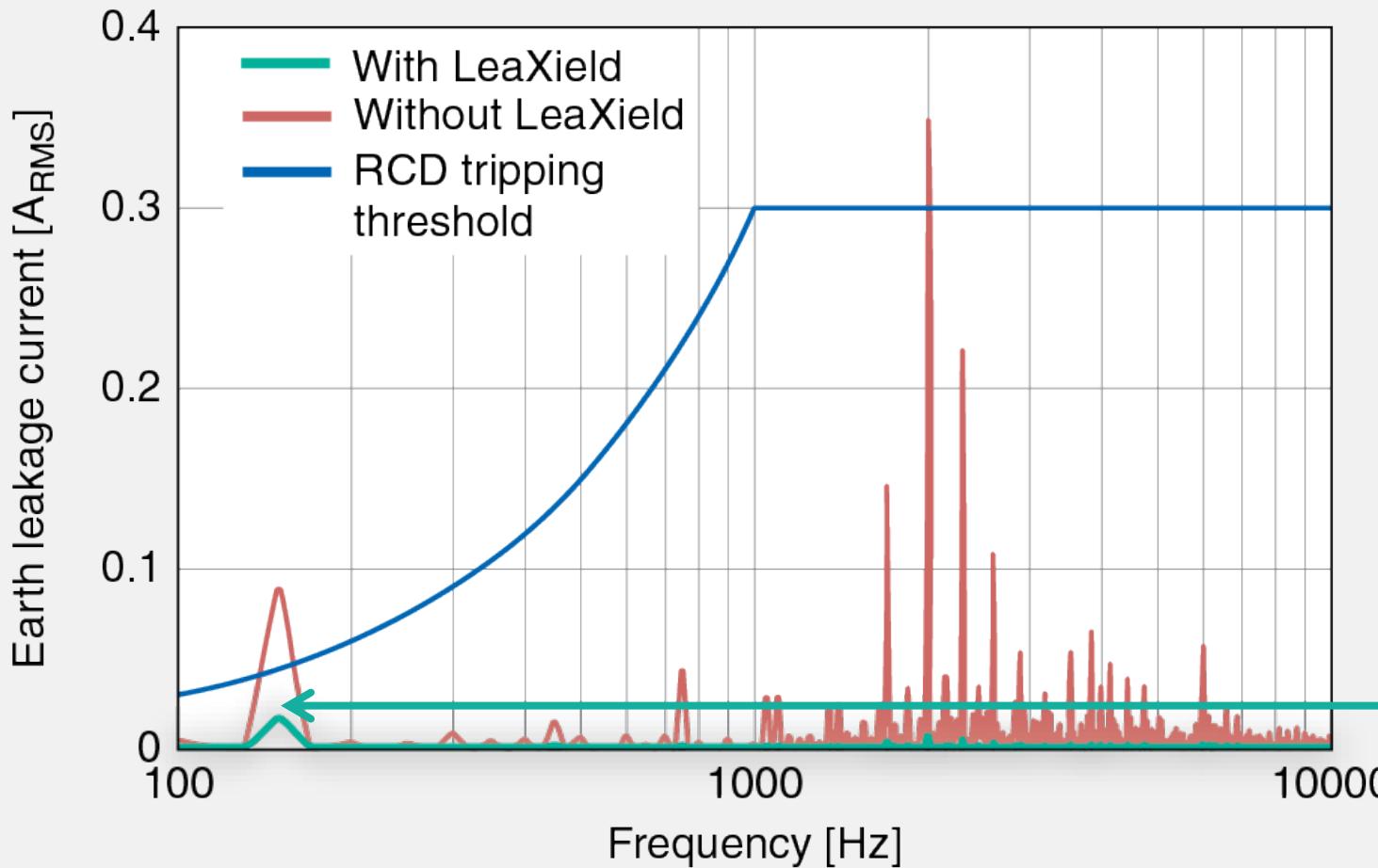


Variable leakage currents reach values
of several hundred mA

Stationary leakage currents up to 1 kHz
are critical for many variable-speed drives

Effective leakage current compensation from 150 Hz up to 30 kHz

Attracting Tomorrow



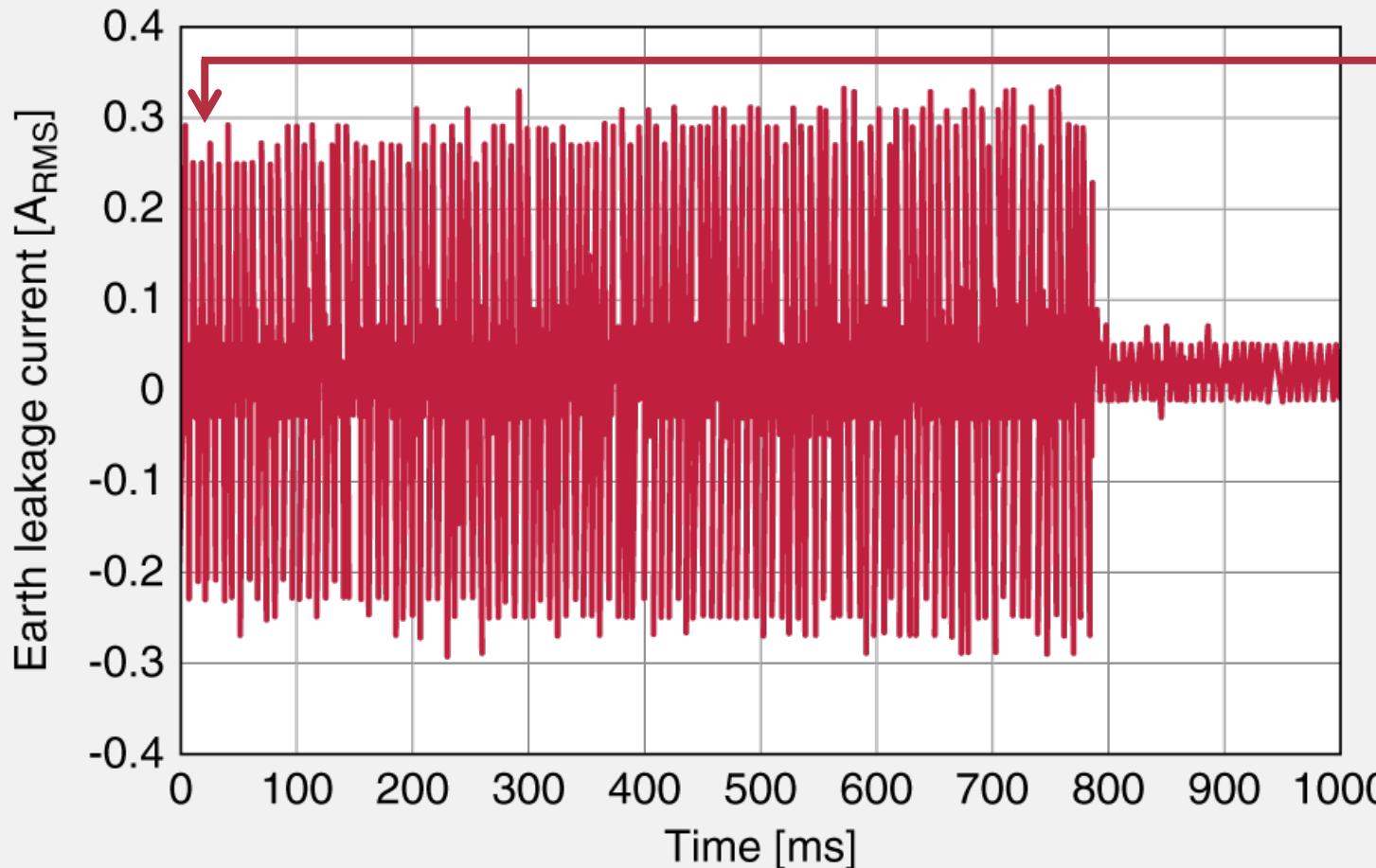
Variable leakage currents reach values of several hundred mA

Stationary leakage currents up to 1 kHz are critical for many variable-speed drives

LeaXield prevents unwanted tripping of the RCD by keeping earth leakage currents well below the threshold!

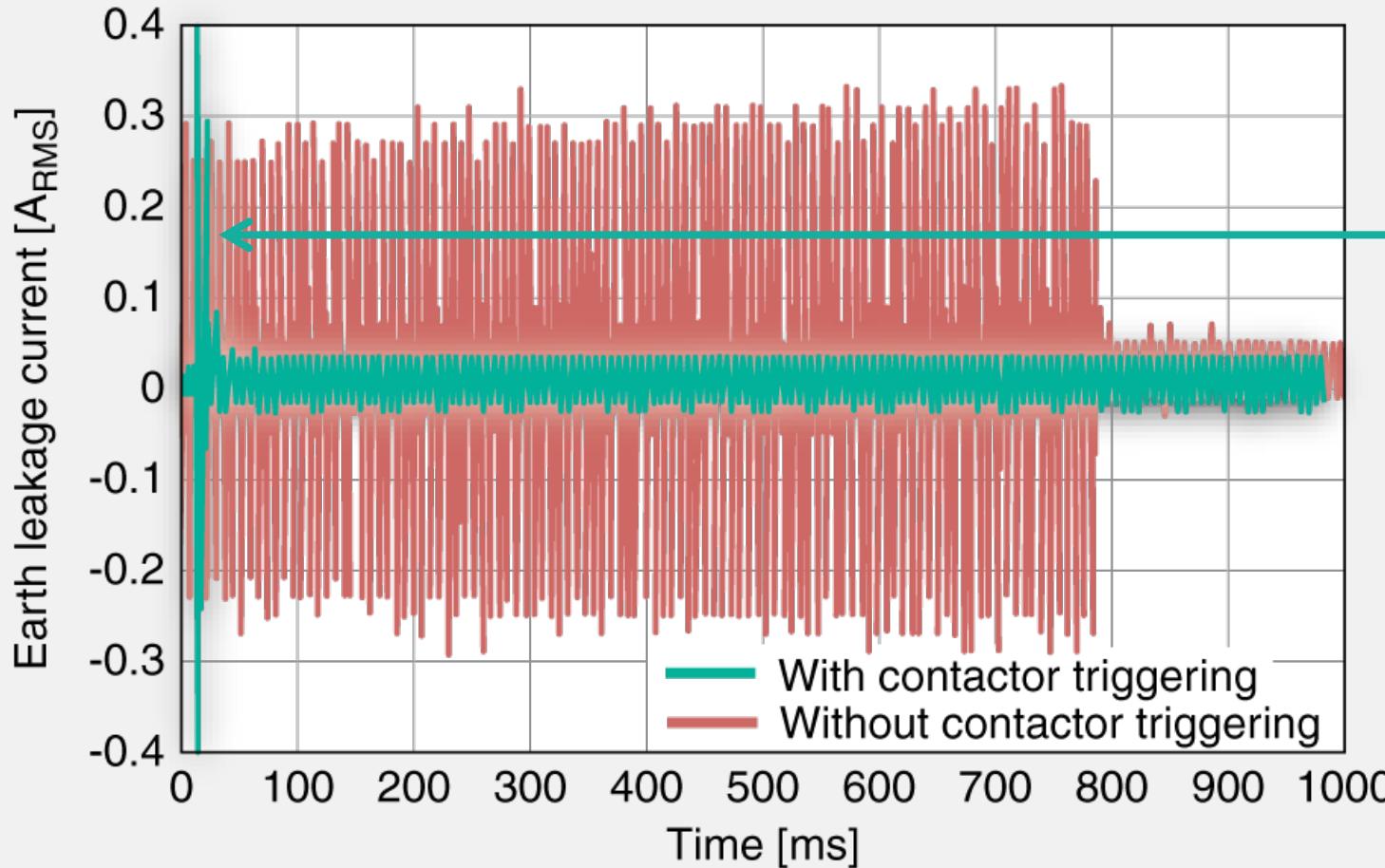
Immediate earth leakage current compensation

Without contactor triggering



High leakage current peaks occur
already during the switching-on phase

Immediate earth leakage current compensation



High leakage current peaks occur already during the switching-on phase

The optional contactor triggering function puts LeaXield™ into a steady state before leakage currents flow

→ LeaXield™ prevents the RCD from tripping when mains voltage is switched on

LeaXield™ is now available!

- High earth leakage current compensation up to 1 A
- Optimized RCD compatibility
- Improves plant availability

- Convenient installation – no external power supply needed
- Compact solution

Key data

Maximum leakage current $I_{LK,load}$ (peak)	1 A
Frequency range	150 Hz to 30 kHz
Rated voltage V_R	305/530 V AC (50 Hz)
Rated current I_R	50 A*
Dimensions	270 x 60 x 119 mm
Ordering code	B84233A1500R000
Conformity	

* Other rated currents on request





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