

AC-AC CONVERTERS

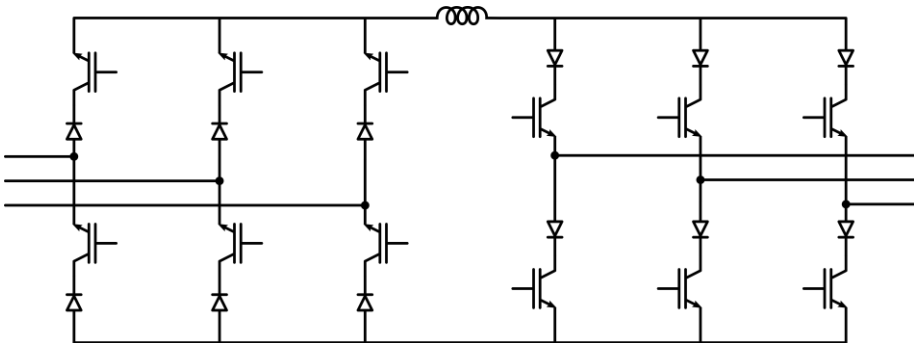
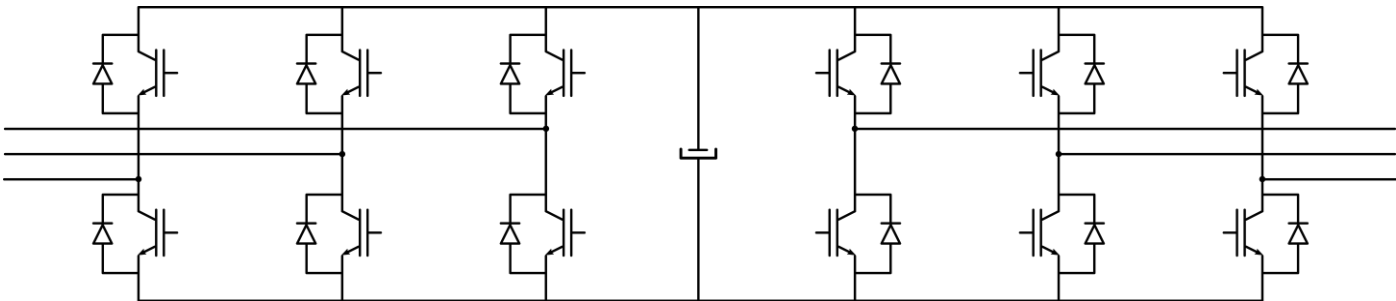
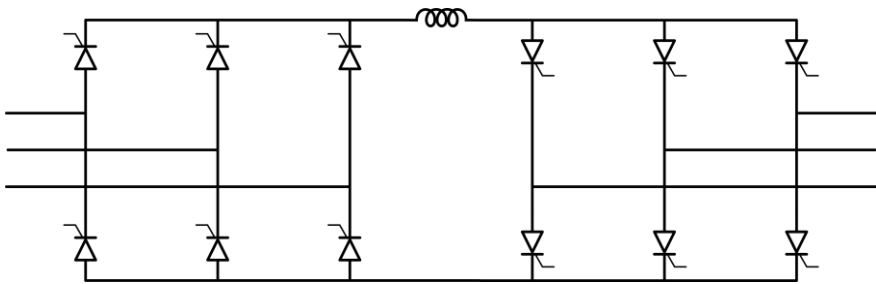
THREE-PHASE AC-AC CONVERTERS

- How do they work?
- Advantages and disadvantages.
- Notable applications.

AC-AC CONVERTERS

Three-phase AC-AC converters

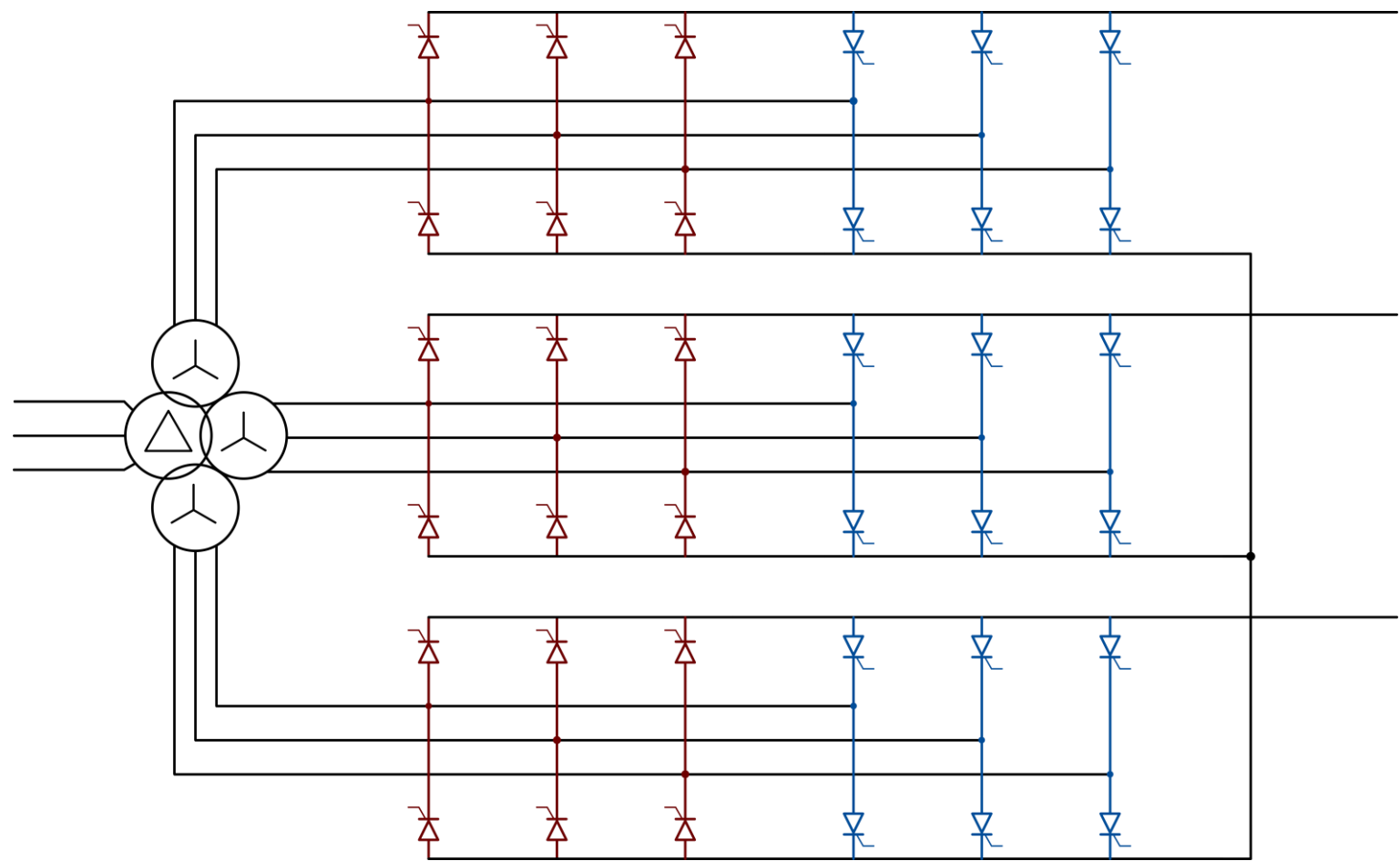
Indirect three-phase AC-AC converters



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Three-phase AC-AC converters

Three-phase cycloconverter

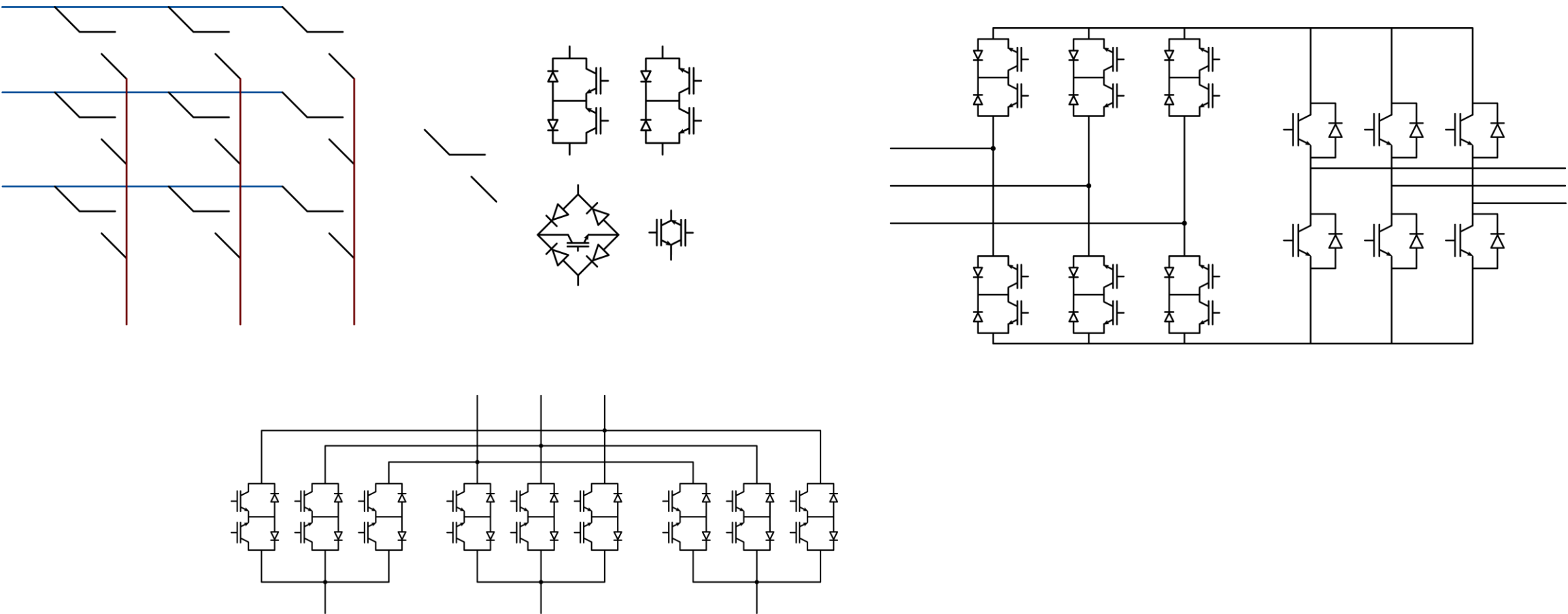


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Three-phase AC-AC converters

Three-phase matrix converters

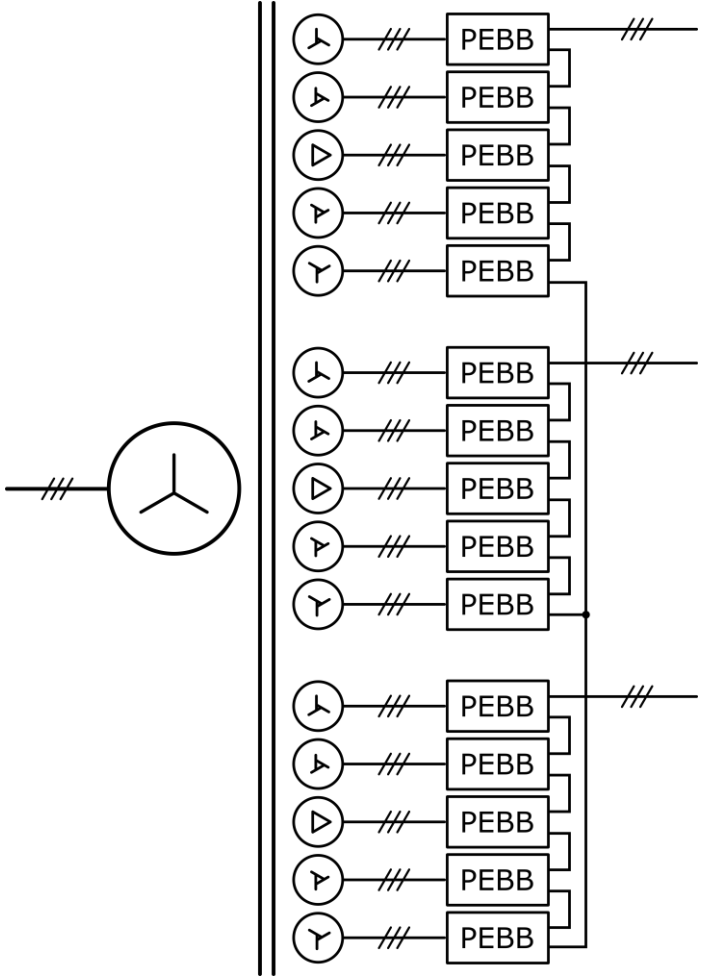
General outline:



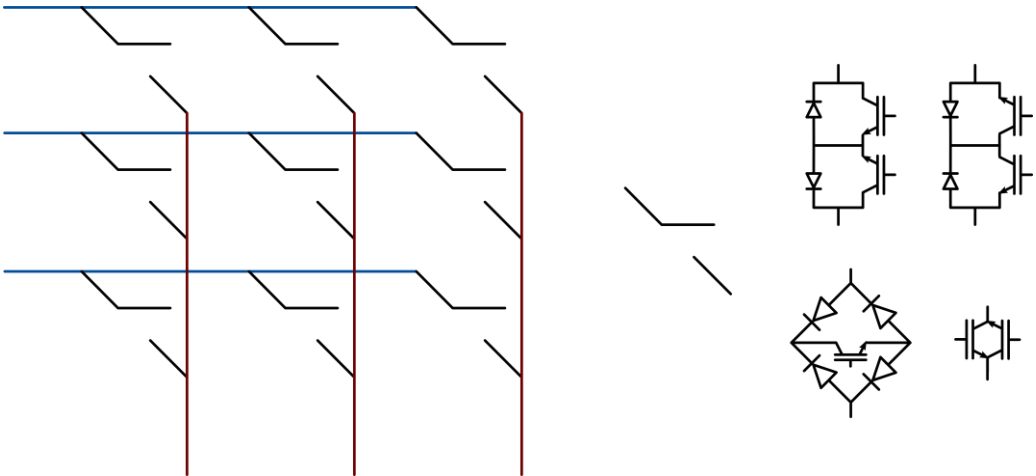
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Three-phase AC-AC converters

Three-phase matrix converters



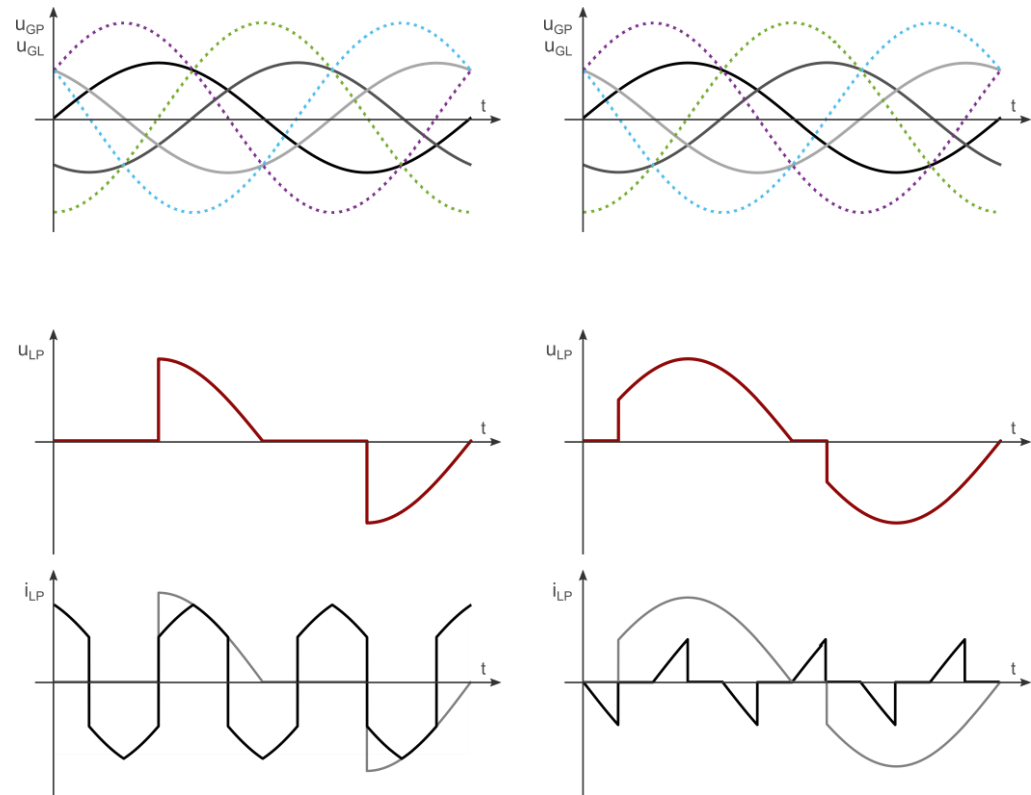
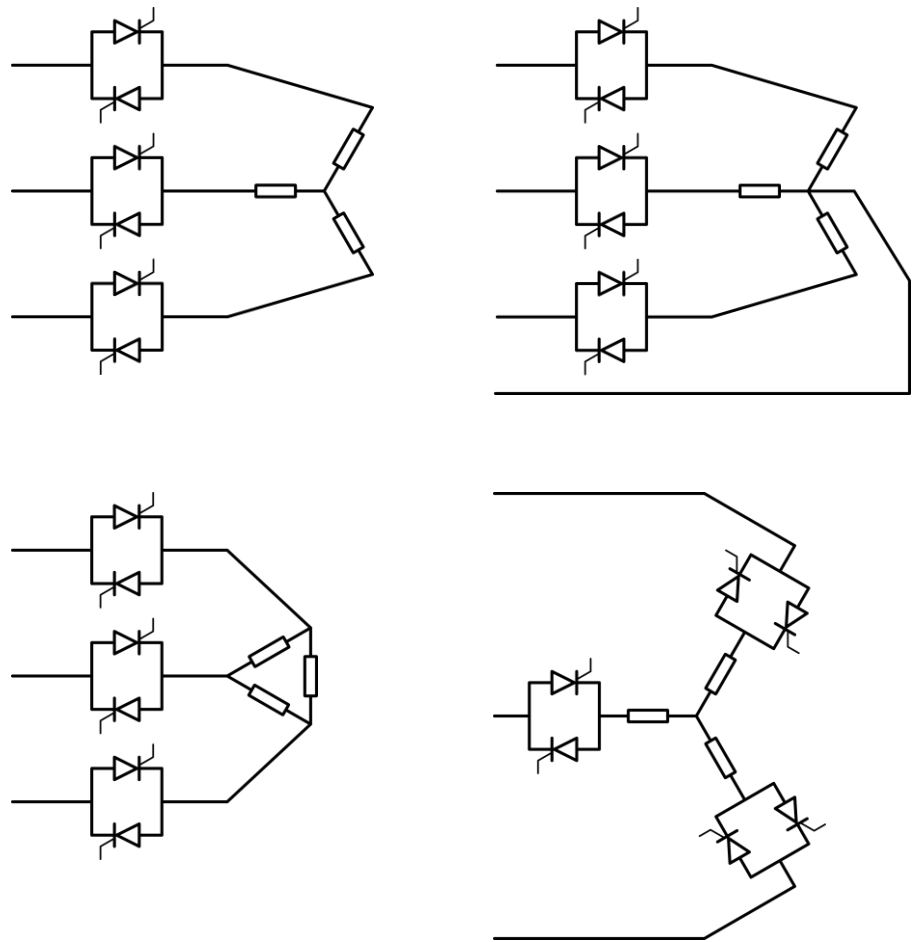
General outline:



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Three-phase AC-AC converters

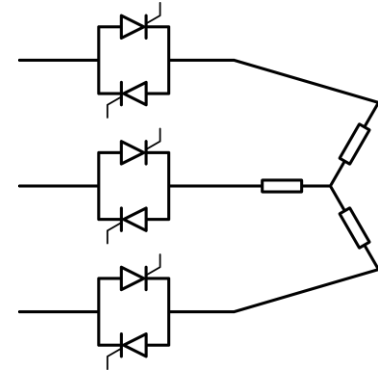
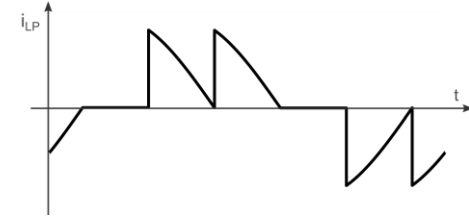
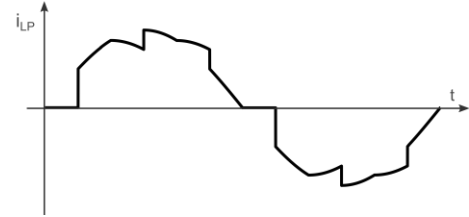
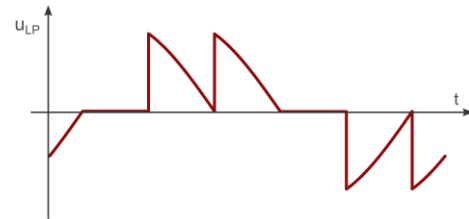
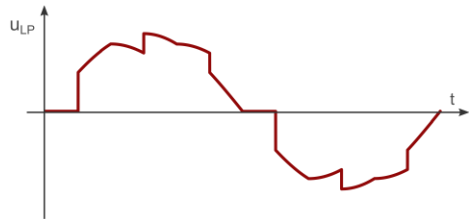
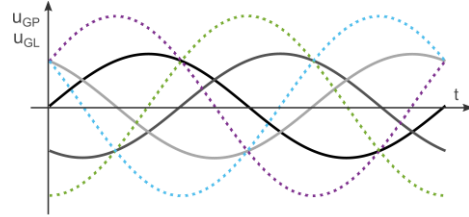
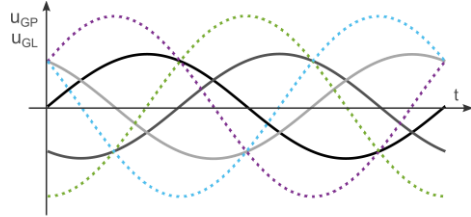
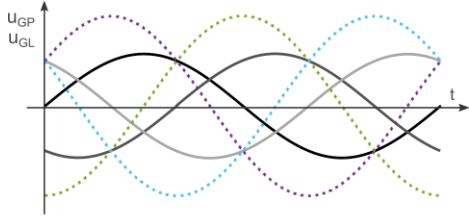
Soft-starter



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Three-phase AC-AC converters

Soft-starter



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Three-phase AC-AC converters

- important notes

- Types of AC-AC converters,
- All of them are fairly complex,
- Current harmonic spectrum complicated, better than with single-phase versions,
- Still, several applications nowadays necessitate usage of these devices.

