

Overview of the Drive System

1.1 Overview of SIMODRIVE 611

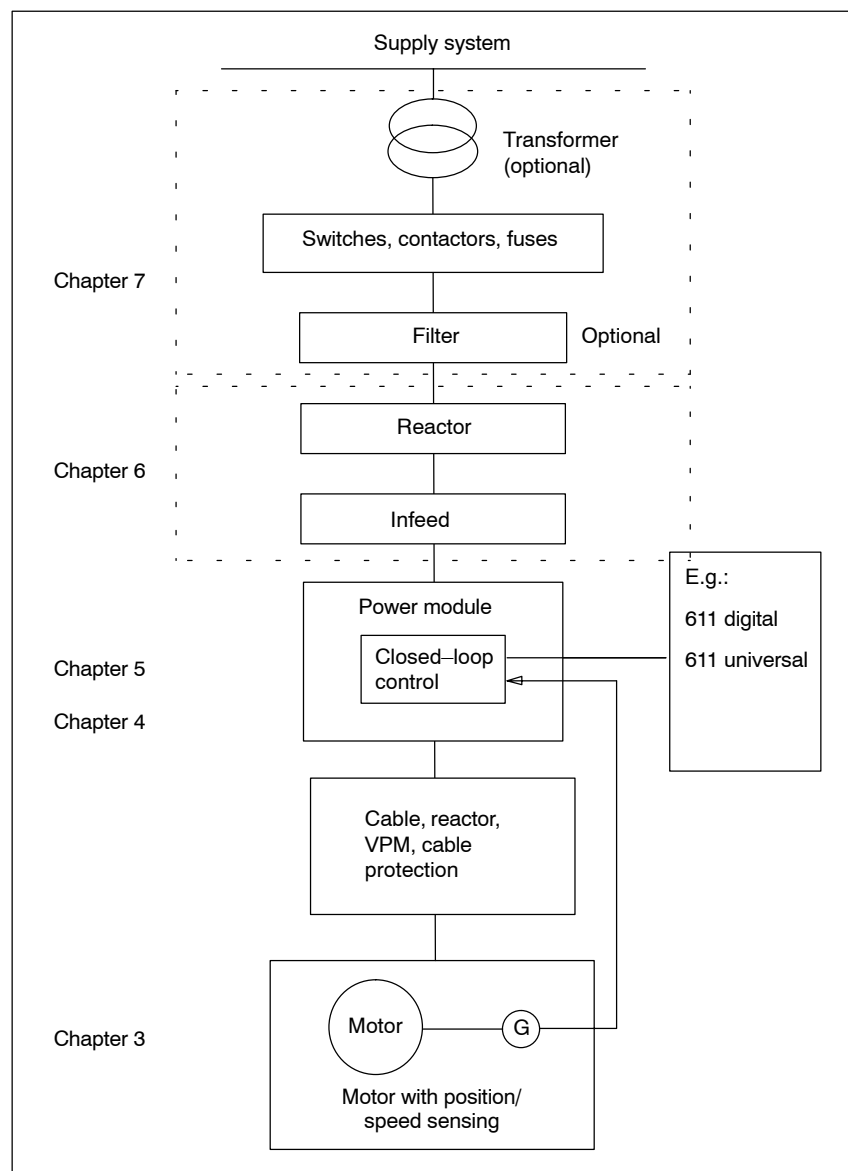


Fig. 1-1 Basic system structure

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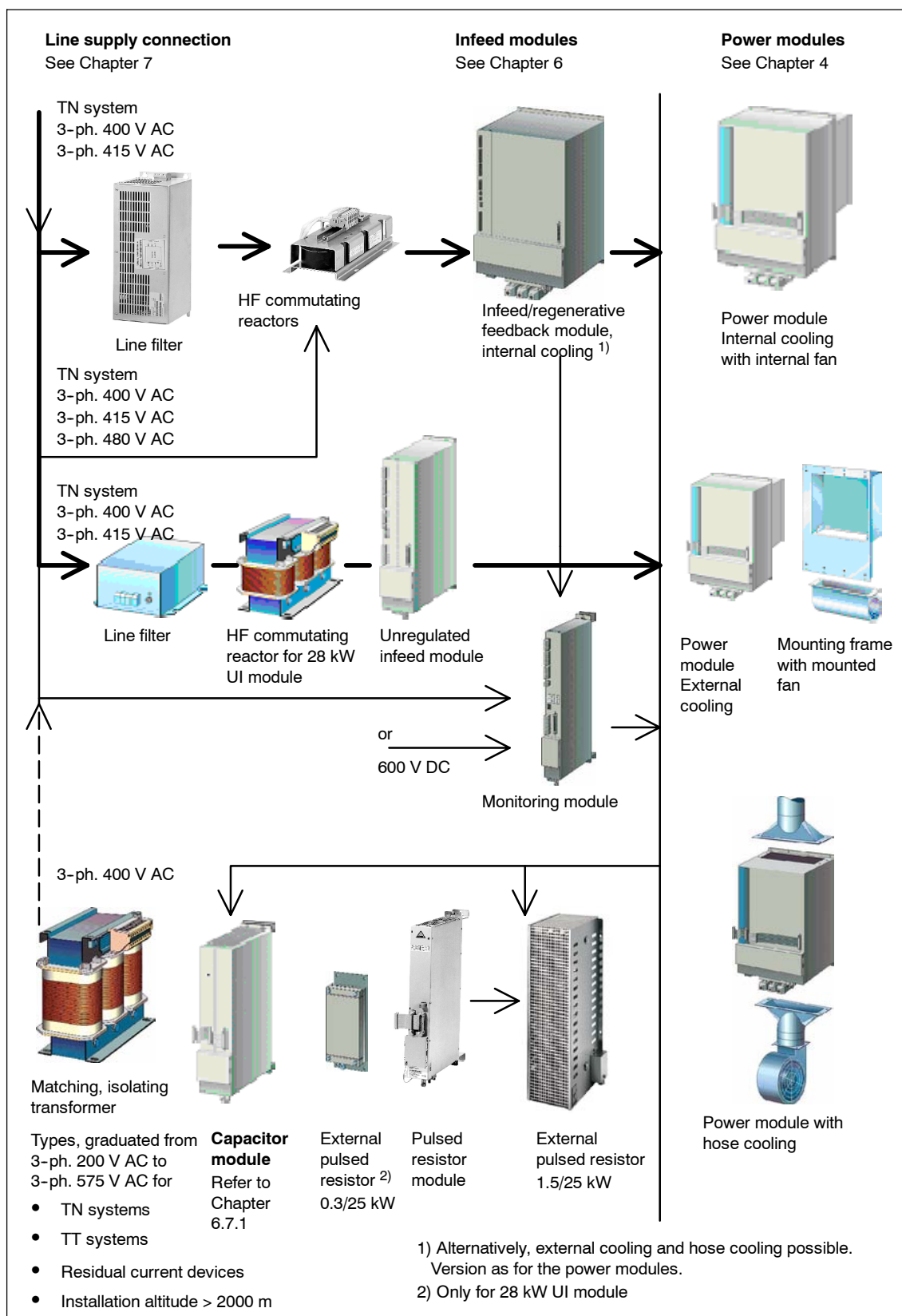


Fig. 1-2 Overview of the SIMODRIVE 611 drive system

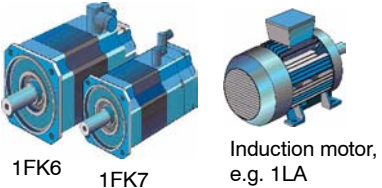
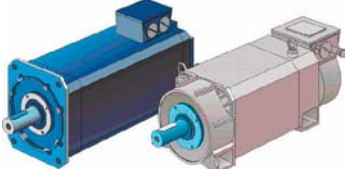
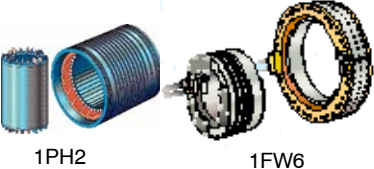
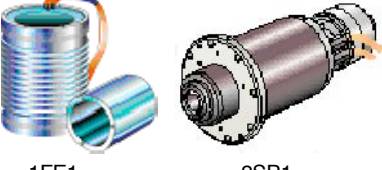
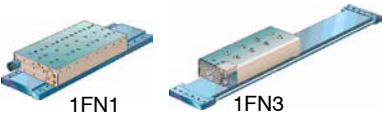
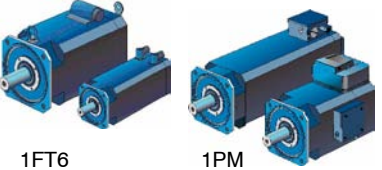
Control units See Chapter 5	Motors See Chapter 3
Control units with analog setpoint interface/PROFIBUS  For 1FT6/1FK/1FN/1FW6-1PH/1FE1 motors and induction motors • 1-axis version (with resolver only) • 2-axis version (resolver and motor encoder) • Standard: analog setpoint interface • Option modules: PROFIBUS DP or TERMINALS	 1FK6 1FK7 Induction motor, e.g. 1LA  1PH4 1PH7
Control units with digital setpoint interface  For 1PH/1PM/1LA or 1FT6/1FK/1FE1/2SP1 motors • 2-axis version (with High-Standard control) - for motor encoders - additional measuring system, voltage signals For 1FT6/1FK/1FN/1FW/1PH/2SP1/1FE1/1PM motors • 1-axis version (with High-Performance control) - for motor encoders - additional measuring system, voltage signals • 2-axis version (with High-Performance control) - for motor encoders - additional measuring system, voltage signals - EnDat and SSI encoders	 1PH2 1FW6  1FE1 2SP1  1FN1 1FN3  1FT6 1PM
 For hydraulic linear axes (HLA/ANA) • 2-axis version	 Control valve for hydraulic linear axes (not included in the scope of supply)

Fig. 1-3 Overview of the drive system

1.1 Overview of SIMODRIVE 611

Note

Siemens accepts the warranty for satisfactory and reliable operation of the drive system under the clear understanding that only original SIMODRIVE system components are used in conjunction with the original accessories described in this Configuration Manual and in Catalog NC 60.

The user must take the planning and engineering data into consideration.

Combinations that differ from the engineering specifications – where relevant, also in conjunction with third-party products, require a special, contractual agreement.

The converter system is designed for installation in control cabinets which conform with the relevant standards for processing machines, especially EN 60204.

Description

The converter system comprises the following modules (refer to Fig. 1-2 and 1-3):

- Transformer
- Switching and protective elements
- Line filter
- Commutating reactors
- Infeed modules
- Power modules
- Control units harmonized to the application technology/process and motor types
- Special modules and other accessories

Various cooling methods are available for the power-dependent line supply infeed and drive modules:

- Internal cooling
- External cooling
- Hose cooling