

Introduction

3.1 PM240 Power Modules

Overview

The PM240 Power Modules belong to the modular family of SINAMICS G120 inverters. A modular inverter comprises Control Unit and Power Module.

The PM240 Power Modules are designed for line voltages of 3 AC 380 V ... 480 V. Depending on the power rating, they are supplied in frame sizes FSA ... FSGX.

- FSA 0.37 kW ... 1.5 kW
- FSB 2.2 kW ... 4 kW
- FSC 7.5 kW ... 15 kW
- FSD 18.5 kW ... 30 kW
- FSE 37 kW ... 45 kW
- FSF 55 kW ... 132 kW
- FSGX 160 kW ... 240 kW

The power data refer to Low Overload operation.



Overload capability of the inverter (Page 63)

Permissible power range of the motors

For the Power Modules, induction motors are permissible in the range from 25 % ... 150 % of the inverter power without any restrictions.

Control Units for the PM240 Power Modules

You can operate the Power Modules with one of the following Control Units.

- CU230P-2 FSGX from V4.3, all other frame sizes without any restriction
- CU240B-2
- CU240E
- CU240E-2
- CU240S
- CU250S-2

Note

Commissioning the inverter

You must first commission the inverter before you can use it. Commissioning is described in the operating instructions of the relevant Control Unit.



Overview of the manuals (Page 109)

3.2 Component specification according to UL

The components of the SINAMICS G120 product family are UL-certified. The certification is indicated on the products using the UL Listing Mark.

If the inverter is protected using semiconductor fuses, then the fuses must be installed in the same electrical cabinet as the inverter itself.



You can find proof of the certification on the Internet UL certificates (<http://www.ul.com>) under "Tools / Online Certifications Directory" by entering the file number or the "Name".

The UL file number for the Power Modules of the SINAMICS G120 product family is:

- E121068 for FSA, FSB and FSC
- E192450 for FSD, FSE, FSF and FSGX