100V

The compact control system

VIPA
A YASKAWA COMPANY

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Features VIPA 100V

- Integrated work memory – operation without additional memory card possible!

- Integrated ROM memory for continuous saving of program and data

- Integrated battery-backed RAM memory

- Support of MMC cards for saving program and data

- MPI interface directly on board

- Central and decentral applicable

- Flexibly expandable with up to 4 signal and function modules

100V is a very compact control system from VIPA. The system is designed for centralized and decentralized automation tasks.

The compact CPUs unify interfaces for communication and digital I/O peripherals in a casing. By the use of up to four expansion modules the CPUs can be extended by up to 160 analog and digital I/O points. With its space-saving assembly size it fits into almost any automation environment. 100V is immediately usable central and decentral without further components.

The system 100V can be perfectly deployed in applications up to 160 I/O points by the command compatibility to S7-300 from Siemens. The CPUs are programmed in LAD, FBD and STL with the VIPA programming software WinPLC7 or with the SIMATIC manager from Siemens. The free version WinPLC7lite can be obtained together with the VIPA system 100V CPUs.

The standard MPI communication to the PGs, OPs and other MPI participants is realized via the MPI interface of the CPUs. With the VIPA "Green Cable" the CPU is cost-effectively and easily programmable via the serial COM interface of the PC. In this case the deployment of a MPI adapter is not necessary!

The scope of supply includes front connectors, labeling strips and, in 100V expansion modules, also bus connectors.

Memory

The CPUs in the 100V have the work and load memory already integrated. Depending on the CPU version, users can choose from 8 kByte to 32 kByte work memory. In addition, MMC cards for storing program and data are supported.

Functions

For the connection of sensors and actuators are a variety of signaling modules in 100V, and 200V for acquiring digital and analog signals in and out of the process is available. Most of the signal modules from 200V are bus and functionally compatible to 100V. Depending on the CPU, variant counter inputs and PWM outputs are integrated. Due to the counter inputs, complex and fast counting tasks in the manufacturing and process industries will be economically realized. The adjustable PWM outputs via potentiometer allow, for example, CCFLs to be „dimmed" or the speed of appropriate electric motors and fans to be regulated via impluses.

Communication

For the connection of serial devices, e.g. scanner or printer, and for the integration of systems from other manufacturers, different CPU variants are available with integrated interfaces. 100V provides fieldbus slave modules for PROFIBUS-DP and CANopen, with which the system also serves as manufacturer-independent, central, but also as subordinate decentralized fieldbus slave unit. The fieldbus slave modules are integrated via the device master files into existing fieldbus infrastructure.

Further information on:

www.vipa.com/de/100v
www.vipa.com/en/100v