



VIPA System 100V - Micro-PLC 112/114/115 for STEP7 of Siemens

System 100V - Micro-PLC 112/114/115

The VIPA System 100V - Micro-PLC 11x is a compact miniature controller that can be programmed by means of VIPA WinPLC7 or Siemens STEP7.

The module comprises a CPU with an instruction set that is compatible with the Siemens S7-300 that features integrated digital inputs and outputs.

4 DI can be configured as high speed counters (up to 30kHz) or alarm inputs; 2 DO can be configured as pulse outputs with up to 50kHz. The Micro PLCs 114 and 115 have got two analog potentiometers.

The module is installed directly on a standard 35mm rail.

Due to the highly compact construction and the favorable price-performance ratio the VIPA System 100V is suitable for applications in environments that require very few I/Os where the use of a PLC was previously not considered.

Features / properties

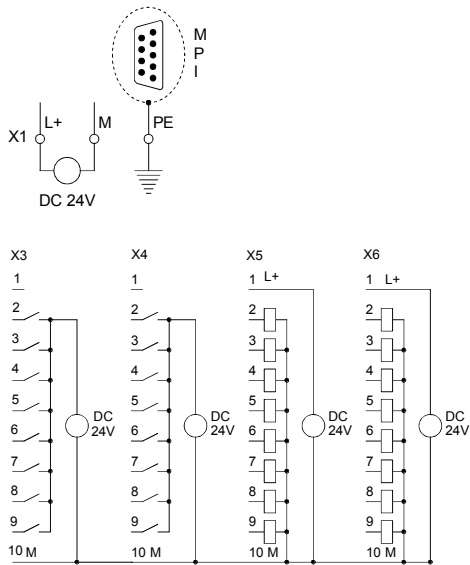
The following properties distinguish the VIPA System 100V Micro-PLC 11x:

- MP²I interface (MPI: 4 stat./8 dyn. conn. serial: point-to-point by means of "Green Cable")
- Instruction set compatible with the Siemens S7-300 (except for the CPU 318)
- Programming by means of VIPA WinPLC7 or Siemens STEP7
- Integrated configurable DIOs
- Compact construction
- expandable by up to 4 modules (114/115)
- Real-time clock on board
- 2nd serial interface (115-6BL11)
- integr. DP slave interface (115-6BL21)

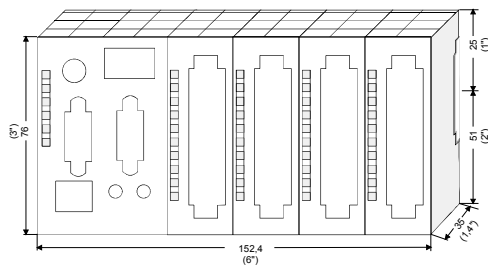


Wiring diagram:

Micro-PLC 115



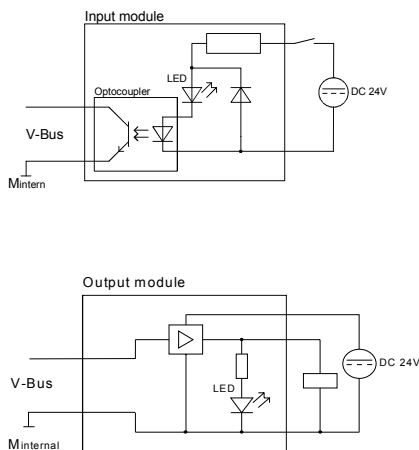
Dimensions:



all dimensions in mm / (inches)

Block diagram:

I/O - stage



Technical data	Micro-PLC 112	Micro-PLC 114	Micro-PLC 115
Electrical data Supply voltage L+ Current consumption L+	24V DC 65mA	24V DC 65mA	24V DC 65mA
System data Memory Load memory ext. memory Battery-backup/clock Cycle time, bit/word (ms/k) Bit memory Timers/counters Inputs Outputs	8KB 16KB MMC yes/yes 0.25 / 1.2 2048 256/256 128 Byte 128 Byte	16KB 32KB MMC yes/yes. 0.25 / 1.2 2048 256/256 128 Byte 128 Byte	16KB 32KB MMC yes/yes 0.25 / 1.2 2048 256/256 128 Byte 128 Byte
Inputs / Outputs Module width No. of inputs (VIPA 114-6BJ50) No. of outputs (VIPA 114-6BJ50) Potentiometers	4 slot 8 (12) DI 8 (4) DO -	6 slot 16 (20) DI 4 configurable (counter/alarm) 16 DI 8 (4) DO 2 configurable (pulse) 8 relay out	6 slot 16 (20) DI 16 (12) DO 2 configurable (pulse)
Rated input voltage Input voltage for a "1" Input voltage for a "0" Delay time	24V DC 15...30VDC 0...5V DC 3 ms typ.	24V DC 15...30VDC 0...5V DC 3 ms typ.	24V DC 15...30VDC 0...5V DC 3 ms typ.
Rated load voltage (external) Output current per channel (VIPA 114-6BJ50) per relay	24V DC 1A	24V DC 1A 5A	24V DC 1A
Operating conditions Operating temperature Storage temperature Relative humidity (without condensation) Protection class EMV/Burst/ESD Vibration/shock		0...60°C -25...70°C 5...95% IP 20 IEC61000-4-4/IEC61000-4-2 (to level 3) IEC 60068-2-6/60068-2-27 (1/12 G)	
Ordering details Micro-PLC Micro-PLC with relay 2. serial interface Micro-PLC with DP slave	VIPA 112-4BH01	VIPA 114-6BJ01 6BJ50	VIPA 115-6BL01 6BL11 6BL21
ME 193A, total memory* 24kB work-/ 32kB load memory ME 193B, total memory* 32kB work-/ 40kB load memory MMC 32MB „Green Cable“ Programming software WinPLC7 for Siemens STEP7 Manual		VIPA 193-0KA00 VIPA 193-0KB00 VIPA 953-0KX10 VIPA 950-0KB00 VIPA SW871 VIPA HB100	

*) Only possible with a new order.