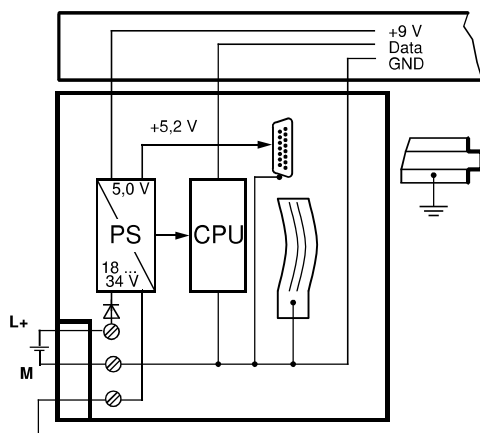
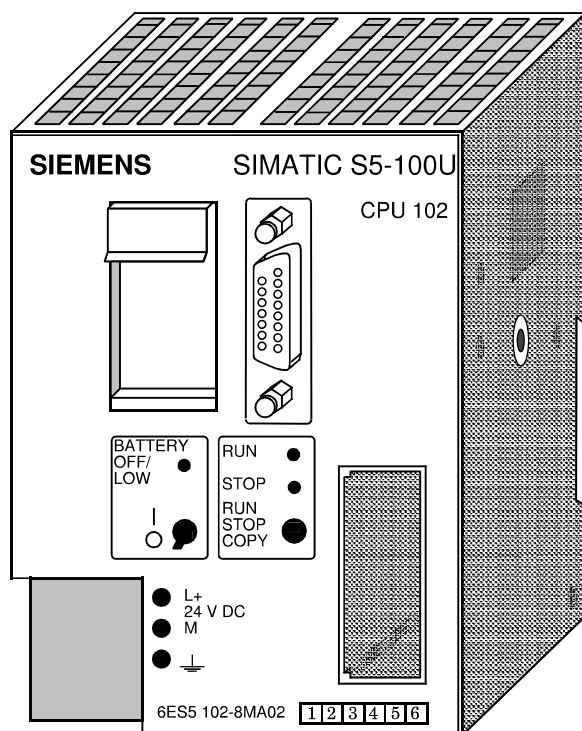


CPU 102

(6ES5 102-8MA02)



Technical specifications

Memory configuration	
- internal memory	RAM 2048 statements
- memory submodule	EPROM/EEPROM
Execution times Normal/Test	
- per binary operation	approx. 7/70 μ s
- per word operation	approx. 40/125 μ s
Scan monitoring time	approx. 350 ms
Flags	1024; 512 retentive
Timers: Number/range	approx. 32; 0.01 to 9990 s
Counters: Number/range	32; 8 retentive 0 to 999 (up/down)

Digital inputs,	
Digital outputs	together max. 256
Analog inputs,	
Analog outputs	together max. 16
Organization blocks	OB1, 21, 22, and 34
Program blocks	0 to 63
Function blocks	
- programmable	0 to 63
- integrated	240 to 243, 250, and 251
Sequence blocks	none
Data blocks	2 to 63
Number of operations	approx. 60

Power supply (internal)

Input voltage	
- nominal value	24 V DC
- permiss. range	18 to 34 V
Current consumption from +24 V	1 A
Output voltage	
- V 1 (for I/Os)	+9 V
- V 2 (for programmer)	+5.2 V
Output current	
- from V 1	1 A
- from V 2	0.65 A
Short-circuit protection	electronic
Protection class	class 1
Galvanic isolation	no
Backup battery	Lithium Battery (3.4 V/ 850 mAh)
- Backup time	min. 1 year (at 25 °C [77 °F] and uninterrupted backup of CPU)
- Service life	approx. 5 years (at 25 °C [77 °F])

Permissible ambient temperature of PC	
- horizontal arrangement	0 to 60 °C (32 to 140 °F)
- vertical arrangement	0 to 40 °C (32 to 104 °F)

Connector cross-sectional area	
- stranded, with core end sleeves	2×0.5 to 1.5 mm ²
- solid	2×0.5 to 2.5 mm ²

Power losses of the module	typ. 11.4 W
Dimensions (WxHxD) in	mm 91.5×135×120
	in. (3.6 x 5.3 x 4.7)

Weight	
- CPU module	approx. 0.65 kg (1.4 lbs)
- memory submodule	approx. 0.1 kg (0.2 lbs)