

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

S7-300

6ES7313-5BF03-0AB0

COMPACT CPU MODULE

Used with the applicable S7-300 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official manufacturer documentation

SIMATIC S7-300

Central processing units

Compact CPUs

4

Overview CPU 314C-2 PtP



- The compact CPU with integrated digital and analog I/Os, as well as a second serial interface
- For installations with high requirements in terms of processing power and response time
- With process-related functions

Micro memory card required to operate the CPU.

Overview CPU 314C-2 DP



- The compact CPU with integrated digital and analog I/Os and PROFIBUS DP master/slave interface
- With process-related functions
- For tasks with special functions
- For the connection of standalone I/O devices

Micro memory card required to operate the CPU.

Technical specifications

	6ES7 312-5BE03-0AB0	6ES7 313-5BF03-0AB0	6ES7 313-6BF03-0AB0	6ES7 313-6CF03-0AB0	6ES7 314-6BG03-0AB0	6ES7 314-6CG03-0AB0
Product status						
Associated programming package	STEP 7 V5.2 + SP 1 or higher + HW update	STEP 7 V5.2 + SP 1 or higher + HW update	STEP 7 V5.2 + SP 1 or higher + HW update	STEP 7 V5.2 + SP 1 or higher + HW update	STEP 7 V 5.2 or higher + SP 1 with HW update	STEP 7 V 5.2 or higher + SP 1 with HW update
Supply voltages						
Rated value						
• DC 24 V	Yes	Yes	Yes	Yes	Yes	Yes
• permissible range, lower limit (DC)	20.4 V	20.4 V	20.4 V	20.4 V	20.4 V	20.4 V
• permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	28.8 V	28.8 V	28.8 V
Voltages and currents						
External protection for supply cables (recommendation)	LS-switch Type C min 2 A; LS-switch Type B min. 4 A	LS-switch Type C min 2 A; LS-switch Type B min. 4 A	LS-switch Type C min 2 A; LS-switch Type B min. 4 A	LS-switch Type C min 2 A; LS-switch Type B min. 4 A	LS-switch Type C min 2 A; LS-switch Type B min. 4 A	LS-switch Type C min 2 A; LS-switch Type B min. 4 A
Current consumption						
Inrush current, typ.	3 A	11 A	11 A	11 A	11 A	11 A
I ² t	0.7 A ² s	0.7 A ² s	0.7 A ² s	0.7 A ² s	0.7 A ² s	0.7 A ² s
Current consumption (in no-load operation), typ.	60 mA	150 mA	100 mA	100 mA	150 mA	150 mA
Current consumption (rated value)	500 mA	700 mA	700 mA	900 mA	800 mA	1.000 mA
from supply voltage L+, max.	500 mA	700 mA	700 mA	900 mA	800 mA	1.000 mA
Power loss, typ.	6 W	14 W	10 W	10 W	14 W	14 W
Memory						
Memory						
• RAM						
- integrated	32 KByte; for program and data, less the display data	64 KByte; for program and data, less the display data	64 KByte; for program and data, less the display data	64 KByte; for program and data, less the display data	96 KByte; for program and data, less the display data	96 KByte; for program and data, less the display data
- expandable	No	No	No	No	No	No

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