

6ES7 313-6CF03-0AB0

SIMATIC S7-300 CPU 313C-2 DP Compact CPU

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Siemens 6ES7 313-6CF03-0AB0 is a CPU 313C-2 DP compact controller with 16 DI, 16 DO, MPI and PROFIBUS DP.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Siemens article.

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Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm the order number, CPU identity and firmware V2.6.
- 2

Secure the machine and PROFIBUS DP devices.
- 3

Back up the STEP 7 project and diagnostic state.
- 4

Isolate 24 V DC and record I/O and network connectors.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	6ES7 313-6CF03-0AB0
Host / carrier	Siemens SIMATIC S7-300 compact CPU system
Primary system role	Executes the STEP 7 application with 64 KB integrated work memory
Acceptance boundary	Prove I/O, counters, pulse outputs and program sequence.
Source record	SIMATIC S7-300 CPU 31xC and CPU 31x Technical Data

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Record the MMC, integrated I/O, MPI address and PROFIBUS DP configuration. Restore the STEP 7 project and prove I/O, DP diagnostics and controlled program operation.

- 1 Inspect the MMC, front connector, rack and shields.
- 2 Restore the exact STEP 7 and DP configuration.
- 3 Review CPU, module and DP diagnostics.
- 4 Prove I/O, counters, pulse outputs and program sequence.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm the order number, CPU hardware and firmware, MMC, 24 V supply, rack, integrated I/O, MPI/DP configuration, STEP 7 project, grounding and functional-test results.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	6ES7 313-6CF03-0AB0
Host match	Siemens SIMATIC S7-300 compact CPU system
Connection proof	Restore the exact STEP 7 and DP configuration.
Configuration proof	Review CPU, module and DP diagnostics.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Prove I/O, counters, pulse outputs and program sequence.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

Compact S7-300 control
Runs the documented STEP 7 application.

PROFIBUS DP master
Coordinates approved distributed I/O devices.

High-speed counting
Processes three configured 30 kHz counters.

CPU replacement
Restores the MMC, addresses and hardware configuration.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
6SL3352-6TG38-8AA3	Apter Power product page	View 6SL3352-6TG38-8AA3 page
6SE7041-2WL84-1JC1	Apter Power product page	View 6SE7041-2WL84-1JC1 page
6SL3120-2TE21-8AC0	Apter Power product page	View 6SL3120-2TE21-8AC0 page
6RY1803-1DA04	Apter Power product page	View 6RY1803-1DA04 page
6SL3352-6TE33-8AA3	Apter Power product page	View 6SL3352-6TE33-8AA3 page
6RY1803-0DA04	Apter Power product page	View 6RY1803-0DA04 page
C98043-A7106-L4	Apter Power product page	View C98043-A7106-L4 page
6RY1803-0DA03	Apter Power product page	View 6RY1803-0DA03 page

MANUFACTURER SOURCE RECORD

SIMATIC S7-300 CPU 31xC and CPU 31x Technical Data
Siemens A5E00105475; CPU 313C-2 DP order number 6ES7313-6CF03-0AB0

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