

6ES7315-2EG10-0AB0

SIMATIC S7-300 CPU 315-2 PN/DP

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Siemens 6ES7315-2EG10-0AB0 is a SIMATIC S7-300 CPU 315-2 PN/DP with 128 KB working memory, an MPI/DP interface and an Ethernet PROFINET interface. It executes the PLC program and coordinates configured distributed I/O an

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.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



6ES7315-2EG10-0AB0

Installation Readiness Gate

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

- 1

Confirm the complete 6ES7315-2EG10-0AB0 marking, hardware release and rack position.
- 2

Place the machine and all controlled outputs in the approved maintenance state.
- 3

Archive the STEP 7 project, Micro Memory Card contents and diagnostic buffer.
- 4

Isolate the 24 V DC supply and record every front connector and network cable.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	6ES7315-2EG10-0AB0
Host / carrier	Siemens SIMATIC S7-300
Primary system role	Executes the configured S7 control program
Acceptance boundary	Complete controlled input, output, interlock and restart tests before release.
Source record	SIMATIC S7-300 CPU 315-2 PN/DP Product Record and CPU Installation Instr

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

Install 6ES7315-2EG10-0AB0 in the documented S7-300 rack position with the required Micro Memory Card and 24 V DC supply. Before replacement, archive the STEP 7 project, MPI/DP and PROFINET identities and diagnostic buffer; a

- 1

Use ESD controls and inspect the backplane and front connectors before installation.
- 2

Restore the exact MPI/DP, PROFINET, station-name and IP configuration.
- 3

Verify every configured distributed-I/O station and communication peer.
- 4

Complete controlled input, output, interlock and restart tests before release.

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 6ES7315-2EG10-0AB0, CPU hardware and firmware, S7-300 rack and power supply, Micro Memory Card, MPI/DP and PROFINET topology, connector assignment, 24 V wiring, grounding, STEP 7 hardware configuration, project version, diagnostics and controlled output-test results before com

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	6ES7315-2EG10-0AB0
Host match	Siemens SIMATIC S7-300
Connection proof	Restore the exact MPI/DP, PROFINET, station-name and IP configuration.
Configuration proof	Verify every configured distributed-I/O station and communication peer.

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

Complete controlled input, output, interlock and restart tests before release.

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

S7-300 process-control stations

Runs sequence, interlock and regulatory-control logic in a documented S7-300 station.

PROFINET machine coordination

Exchanges cyclic data with configured Ethernet-based automation devices.

PROFIBUS distributed-I/O systems

Coordinates DP devices through the configured MPI/DP interface.

Legacy CPU replacement projects

Restores a documented CPU 315-2 PN/DP station while preserving its validated project.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
6SL3200-0SP01-0AA0	CIM PM-IF assembly	View 6SL3200-0SP01-0AA0 page
6SE7041-8HK85-1HA0	PER2 interface	View 6SE7041-8HK85-1HA0 page
6SE7041-8EK85-0HA0	PER3 interface	View 6SE7041-8EK85-0HA0 page
6SE7041-8GK85-0HA0	PER3 interface	View 6SE7041-8GK85-0HA0 page
6RA8075-6DS22-0AA0	DC converter	View 6RA8075-6DS22-0AA0 page
6ES7314-6BH04-0AB0	S7-300 CPU	View 6ES7314-6BH04-0AB0 page
6ES7223-1BL22-0XA0	S7-200 I/O	View 6ES7223-1BL22-0XA0 page
6AU1455-2AD00-0AA0	SIMOTION controller	View 6AU1455-2AD00-0AA0 page

MANUFACTURER SOURCE RECORD

SIMATIC S7-300 CPU 315-2 PN/DP Product Record and CPU Installation Instr
Siemens Industry Mall MLFB 6ES7315-2EG10-0AB0; A5E00105492-12

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



6ES7315-2EG10-0AB0