

353D4F1NNETNNA4

Siemens Moore Model 353 Process Automation Controller

Siemens 353D4F1NNETNNA4 is a Model 353 process automation controller for single- or multi-loop control, logic and sequencing applications. Its exact power, I/O, communications and option execution

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
Siemens Moore 353

PART
353D4F1NNETNNA4

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

353D4F1NNETNNA4 provides programmable process control, logic and sequencing within a documented Siemens Moore Model 353 installation.



Configurable single- or multi-loop control



Function-block logic and sequencing



Analog, digital and relay field interfaces



MODBUS serial communications

RELATED APTER POWER PAGES		
1 Siemens 6DR5013-0FN00-0AA3	2 Siemens 6DS1144-8AA	3 Siemens 6SL3350-6TK00-0EA0
4 Siemens RMS-TSG-TZ-C	5 Siemens 39RTMCAN 16207-61/10	6 Siemens 6DR5310-0NG00-0AA0
7 Siemens 6DR5020-0NG13-0AA0	8 Siemens 6DR2004-1	9 Siemens 6DR2104-4

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
353D4F1NNETNNA4 exact execution	Documented Model 353 hardware design level and panel position
Installed option boards, terminals and field circuits	Saved function-block, tuning and communication configuration

ENGINEERING CONTEXT

The controller’s field role is defined by its complete nameplate, hardware design level, installed option boards, terminal wiring, function blocks, display setup and communications. Commissioning restores the as-found configuration and proves every affected input, output, alarm, sequence and control loop.

TECHNICAL DATA

PARAMETER	VALUE
Product family	Model 353 Process Automation Controller
Control scope	Single-loop and multi-loop process applications
Functions	Control, logic, sequencing and operator indication
Configuration	Front-panel configuration; model-dependent engineering
Minimum scan time	20 ms
AC supply option	85-264 Vac, 47-63 Hz
DC supply option	24 Vdc, +20% / -15%
Maximum power	25 W / 40 VA
Transmitter supply	25 Vdc +/-3 V, 120 mA

PARAMETER	VALUE
Analog input ranges	1-5 Vdc or 4-20 mA with 250 ohm input
Analog outputs	4-20 mA into 800 ohm maximum
Digital input states	0-1 V off; 15-30 V on
Digital outputs	30 Vdc maximum, 100 mA
Relay outputs	5 A at 120 Vac or 2.5 A at 230 Vac
Serial communications	Front RS-232 and rear RS-485 interfaces
Protocol	MODBUS communications
Operating temperature	0 to +50 deg C
Storage temperature	-40 to +85 deg C

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TECHNICAL NOTE

Treat 353D4F1NNETNNA4 as the complete installed identity. The manufacturer Model 353 manuals document multiple power, I/O, communication and design-level executions, so record the nameplate, hardware design level, option boards, wiring, function-block configuration and communication parameters before removal; do not infer suffix options from a nearby order code.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Process-loop control

Executes documented regulatory and supervisory control functions.

Sequence and logic control

Coordinates configured function blocks and discrete conditions.

Operator process station

Provides local indication, commands and diagnostic access.

Legacy Model 353 replacement

Restores exact hardware, wiring and configuration records.

PRODUCT PRECAUTIONS

1

Confirm 353D4F1NNETNNA4 and the complete Model 353 nameplate.

2

Place every connected process loop and final element in the approved maintenance state.

3

Back up the function-block configuration, tuning, sequences, alarms and communications.

4

Record the power execution, design level, option boards, terminals and field ranges.

5

Isolate controller power and all analog, digital, relay and serial circuits.

6

Restore the exact hardware options, wiring, function blocks and communication parameters.

7

Review display, input, output, alarm and communication diagnostics after energization.

8

Complete controlled I/O, sequence, alarm and closed-loop response tests before release.

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1

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Siemens 6DR2104-4

ENGINEER FAQ

Q1 How is the exact 353D4F1NNETNNA4 execution identified?

Use the full 353D4F1NNETNNA4 nameplate identity and record the hardware design level and installed options; do not infer suffix options from another Model 353.

Q2 What documented function does 353D4F1NNETNNA4 perform?

It performs configurable process control, function-block logic and sequencing with local operator indication and model-dependent communications.

Q3 Which installed system must be matched before fitting 353D4F1NNETNNA4?

Match the documented panel position, process loops, final elements, power execution, field wiring, option boards and saved controller configuration.

Q4 Which interfaces must be recorded for 353D4F1NNETNNA4?

Record analog, digital and relay terminals, transmitter supply, serial interfaces, addresses, protocol settings and every installed option connection.

Q5 What handling controls apply to 353D4F1NNETNNA4?

Place all loops in a safe maintenance state, back up the configuration, isolate controller and field power, and preserve terminal and option-board identity.

Q6 What must be restored after installing 353D4F1NNETNNA4?

Restore the exact hardware execution, function blocks, ranges, tuning, sequences, alarm limits, display settings and communication parameters.

Q7 What evidence confirms 353D4F1NNETNNA4 is ready for service?

Review controller diagnostics and prove every affected input, output, relay, alarm, communication path, sequence and closed-loop response.

Q8 Which manufacturer record supports the 353D4F1NNETNNA4 page?

Siemens UM353-1B and the official Model 353 controller catalog provide the family specifications and installation requirements used on this page.

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SOURCE Siemens Moore Model 353 Process Automation Controller User Manual | Siemens UM353-1B
Revision 4 with Software Release 2 documentation and Model 353 product catalog
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