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01 Readiness and operating boundary

Schneider Electric 140CPU53414A is the redesigned A-version of the Modicon Quantum 534 PLC controller. Schneider Electric identifies it as functionally equivalent to 140CPU53414 while requiring matching A-version processors when used as a Hot Standby pair.

Confirm exact identity

Confirm 140CPU53414A, its rack position and the complete controller project before work.

|                   |                            |
|-------------------|----------------------------|
| Exact model       | 140CPU53414A               |
| Controller family | Modicon Quantum            |
| Processor class   | Quantum 534 PLC controller |

Establish the safe work boundary

Place the controlled process and every affected output in the approved maintenance state.

|            |                                     |
|------------|-------------------------------------|
| Identity   | 140CPU53414A                        |
| Host       | Modicon Quantum                     |
| Acceptance | Diagnostics and functional response |

| PAGE TRACE | REQUIRED ENTRY                               |
|------------|----------------------------------------------|
| Inspector  | _____                                        |
| Result     | Pass / hold / corrective action              |
| Record     | Date, diagnostic state and release reference |

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140CPU53414A

## 2 02 Configuration and interface setup

140CPU53414A executes the retained Quantum control project and coordinates rack resources, communications and I/O, with compatibility governed by the exact processor version and system architecture.

### Record the as-found configuration

Back up the project, configuration, communication settings and diagnostic record.

|                    |                            |
|--------------------|----------------------------|
| Controller family  | Modicon Quantum            |
| Processor class    | Quantum 534 PLC controller |
| Hardware execution | Redesigned A version       |

### Map connections and settings

For Hot Standby, verify that both processors are the A-version before installation.

|            |                                     |
|------------|-------------------------------------|
| Identity   | 140CPU53414A                        |
| Host       | Modicon Quantum                     |
| Acceptance | Diagnostics and functional response |

| PAGE TRACE | REQUIRED ENTRY                               |
|------------|----------------------------------------------|
| Inspector  | _____                                        |
| Result     | Pass / hold / corrective action              |
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### 03 Installation and service sequence

140CPU53414A executes the retained Quantum control project and coordinates rack resources, communications and I/O, with compatibility governed by the exact processor version and system architecture.

#### Restore the documented assembly

Record all module, cable, key-switch and memory arrangements before removal.

|                         |                                        |
|-------------------------|----------------------------------------|
| Processor class         | Quantum 534 PLC controller             |
| Hardware execution      | Redesigned A version                   |
| Functional relationship | Functionally equivalent to 140CPU53414 |

#### Protect every interface

Restore the approved firmware and engineering-software compatibility basis.

|            |                                     |
|------------|-------------------------------------|
| Identity   | 140CPU53414A                        |
| Host       | Modicon Quantum                     |
| Acceptance | Diagnostics and functional response |

| PAGE TRACE | REQUIRED ENTRY                               |
|------------|----------------------------------------------|
| Inspector  | _____                                        |
| Result     | Pass / hold / corrective action              |
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## 04 Verification and fault isolation

140CPU53414A executes the retained Quantum control project and coordinates rack resources, communications and I/O, with compatibility governed by the exact processor version and system architecture.

### Verify the installed function

Review controller, rack, network and I/O diagnostics after controlled startup.

|                         |                                        |
|-------------------------|----------------------------------------|
| Hardware execution      | Redesigned A version                   |
| Functional relationship | Functionally equivalent to 140CPU53414 |
| Hot Standby rule        | Both processors must be A version      |

### Isolate unexpected response

Complete the machine-specific functional and redundancy test before releasing 140CPU53414A.

|            |                                     |
|------------|-------------------------------------|
| Identity   | 140CPU53414A                        |
| Host       | Modicon Quantum                     |
| Acceptance | Diagnostics and functional response |

| PAGE TRACE | REQUIRED ENTRY                               |
|------------|----------------------------------------------|
| Inspector  | _____                                        |
| Result     | Pass / hold / corrective action              |
| Record     | Date, diagnostic state and release reference |

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140CPU53414A

## 5 05 Acceptance and service handover

140CPU53414A executes the retained Quantum control project and coordinates rack resources, communications and I/O, with compatibility governed by the exact processor version and system architecture.

### Complete the release record

Confirm 140CPU53414A, its rack position and the complete controller project before work.

|                   |                            |
|-------------------|----------------------------|
| Exact model       | 140CPU53414A               |
| Controller family | Modicon Quantum            |
| Processor class   | Quantum 534 PLC controller |

### Retain acceptance evidence

Place the controlled process and every affected output in the approved maintenance state.

|            |                                     |
|------------|-------------------------------------|
| Identity   | 140CPU53414A                        |
| Host       | Modicon Quantum                     |
| Acceptance | Diagnostics and functional response |

[Schneider Electric BMXP3420302 — View product page](#)

[Schneider Electric ATV61HD75N4 — View product page](#)

[Schneider Electric TSXPLP01 — View product page](#)

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