Allen-Bradley 1747-L30C

01 Program and memory capture

Program and memory capture procedure

Use this stage for 1747-L30C at its assigned installation position. Save the application, I/O assignments, forces and communication settings. Identify the installed RAM-backup and nonvolatile-memory arrangement before isolation.

Acceptance of program and memory capture

A recoverable program and an unambiguous wiring record exist before the controller is removed. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Stage record	Program and memory capture observations and acceptance result
Digital inputs	18 DC sinking
Input operating voltage	10-30 V DC

02 Supply-group separation

Supply-group separation procedure

Trace the controller AC supply and all four relay field-supply groups. Label each common and retain the intended protective devices.

Acceptance of supply-group separation

The output groups remain separated according to the machine circuit, without unintended common bridges. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Stage record	Supply-group separation observations and acceptance result
Relay outputs	12
AC supply range	85-265 V AC

03 Input-0 assessment

Input-0 assessment procedure

Check the sourcing sensor connected to the sinking inputs and review input 0 separately for its high-speed function and current demand.

Acceptance of input-0 assessment

The sensor and counter configuration agree, and the auxiliary supply supports the complete connected load. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Stage record	Input-0 assessment observations and acceptance result
Sensor power	24 V DC, 200 mA
High-speed input	Input 0

04 Relay-duty verification

Relay-duty verification procedure

Test the intended output paths with suitable controlled loads. Confirm contact duty and suppression for the actual field devices.

Acceptance of relay-duty verification

Contact action and group loading remain within the relevant operating and make/break limits. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Stage record	Relay-duty verification observations and acceptance result
Program capacity	1K instructions
Relay maximum continuous current	2.5 A per output; 8 A per group

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05 Controlled machine restart

Controlled machine restart procedure

Restore the verified program and inspect forcing before allowing outputs. Test startup interlocks and the required operating sequence under the site procedure.

Acceptance of controlled machine restart

No unintended output energizes and the restored sequence matches the approved machine behavior. Record the observed result and any unresolved difference before progressing to the next applicable stage.

Technical basis: Allen-Bradley SLC 500 Fixed Hardware Style Installation and Operation Manual, 1747-6.21.

Related product navigation

- Allen-Bradley 1746-P2
- Allen-Bradley 1746-NR4
- Allen-Bradley 1746-HS

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.