

INDUSTRIAL AUTOMATION PRODUCT

1747-L30C

Fixed Controller

Integrated SLC 500 program execution, 24 V DC input acquisition and relay-output control

IDENTITY	VERIFIED VALUE
Manufacturer	Allen-Bradley
System family	Allen-Bradley SLC 500 fixed hardware controller
Part number	1747-L30C

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Technical Specifications

Technical values below are limited to the named Allen-Bradley product record.

PARAMETER	TECHNICAL VALUE
Catalog number	1747-L30C
Controller family	SLC 500 fixed hardware style
Main power input	85 to 265 V AC
Discrete inputs	18 sinking 24 V DC inputs
High-speed counter	1 dedicated input
Relay outputs	12
Input wiring range	10 to 30 V DC
Sensor user power	24 V DC, 200 mA
Relay operating range	5 to 265 V AC; 5 to 125 V DC
Output arrangement	Grouped relay circuits; group voltages may differ
Programming platform	SLC 500 fixed-controller programming environment
Reference manual	1747-UM009

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	85 to 265 V AC main supply
Companion hardware	24 V DC field input circuits
Field connection	relay-controlled field loads
Primary system function	Combines controller, inputs and relay outputs
Controlled acceptance duty	Compact machine control

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System Role and Architecture

Integrated SLC 500 program execution, 24 V DC input acquisition and relay-output control

FUNCTION 1

Combines controller, inputs and relay outputs

FUNCTION 2

Provides eighteen sinking DC inputs

FUNCTION 3

Includes one high-speed counter input

FUNCTION 4

Provides twelve relay output points

Matched system components

- 85 to 265 V AC main supply
- 24 V DC field input circuits
- relay-controlled field loads
- approved SLC 500 program and wiring record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	85 to 265 V AC main supply
Companion hardware	24 V DC field input circuits
Field connection	relay-controlled field loads
Primary system function	Combines controller, inputs and relay outputs
Controlled acceptance duty	Compact machine control

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Applications and Engineering Context

Compact machine control

Combines controller, inputs and relay outputs

High-speed event counting

Provides eighteen sinking DC inputs

Mixed-voltage relay commands

Includes one high-speed counter input

Installed SLC renewal

Provides twelve relay output points

TECHNICAL NOTE

Back up the SLC program, identify every input and relay-output group, isolate all supply sources and verify the exact 1747-L30C identity before replacement.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	1747-L30C / 1747-L30C recorded
Physical interface	85 to 265 V AC main supply
Companion check	24 V DC field input circuits
Functional proof	Combines controller, inputs and relay outputs
Application test	Compact machine control

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Engineering Precautions

- 1 Verify the complete 1747-L30C marking and its assigned Allen-Bradley SLC 500 fixed hardware controller position before work.
- 2 Place the connected compact machine control process in the approved maintenance state.
- 3 Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4 Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5 Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE IC752SPL013	Related industrial automation product	View GE IC752SPL013 page
Emerson KJ2005X1 SQ1 12P6383X022	Related industrial automation product	View Emerson KJ2005X1 SQ1 12P6383X022 page
Bently Nevada 3500 05 01 01 01 00 01	Related industrial automation product	View Bently Nevada 3500 05 01 01 01 00 01 page
Bently Nevada 330180 X1 00 MOD 145004 09	Related industrial automation product	View Bently Nevada 330180 X1 00 MOD 145004 09 page
Siemens A5E00296878	Related industrial automation product	View Siemens A5E00296878 page
Siemens A5E34612879	Related industrial automation product	View Siemens A5E34612879 page
Siemens A5E00825002	Related industrial automation product	View Siemens A5E00825002 page
Siemens A5E00755411	Related industrial automation product	View Siemens A5E00755411 page

MANUFACTURER SOURCE RECORD

Rockwell Automation SLC 500 Fixed Hardware Style Installation and Operation Manual

1747-UM009

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