

01 Verify identity and work authorization

APTER POWER / MODEL-SPECIFIC FIELD GUIDE

Allen-Bradley 1756-L82E-B

Exact identity

Allen-Bradley 1756-L82E-B is the Series B identity of a ControlLogix 5580 controller with 5 MB user memory, an embedded 10/100/1000 Mbps EtherNet/IP port and a USB 2.0 programming port.

PARAMETER	VERIFIED VALUE
Manufacturer	Allen-Bradley / Rockwell Automation
Catalog identity	1756-L82E, Series B
Product family	ControlLogix 5580
Product type	Chassis-based programmable automation controller
User memory	5 MB
Controller tasks	32 continuous, periodic and event tasks
Programs per task	1000 maximum
USB port	One USB 2.0 full-speed port; 12 Mbps
USB use	Temporary local programming, configuration, firmware update and online edits
Embedded Ethernet	One 10/100/1000 Mbps EtherNet/IP port

Pre-work boundary: Values are limited to Rockwell Automation publication 1756-TD001U-EN-P, the 1756-L82E product page and the ControlLogix 5580 user manual; project limits remain software- and chassis-dependent.

Official manufacturer evidence reviewed: Rockwell Automation ControlLogix Controller Technical Data and ControlLogix 5580 Controller documentation.

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01 / Installation check

Verify the complete 1756-L82E Series B identity and the approved ControlLogix chassis before work.

02 / Installation check

Place the controller and controlled process in the authorized maintenance state before removal or insertion.

03 / Installation check

Back up the project, controller properties, network settings and the current Secure Digital card configuration.

04 / Installation check

Confirm the chassis series because the published upper operating limit is 50 deg C in Series B and 60 deg C in Series C chassis.

05 / Installation check

Use the USB port only for temporary local programming and never as a permanent connection or in a hazardous location.

06 / Installation check

Check the installed project against the applicable 80- or 175-node EtherNet/IP limit for the Logix Designer version.

07 / Installation check

Keep unused port plugs installed where required for the published corrosive-atmosphere rating.

08 / Installation check

After download and startup, review diagnostics and complete a controlled I/O, network and application-response test before release.

Hold point

Do not energize until identity, isolation, connectors, configuration and the applicable safety or protection chain have been independently checked.

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RELEASE ITEM	REQUIRED EVIDENCE
Identity	Exact article, revision and installed position recorded
Configuration	Approved backup and restored settings recorded
Connections	Connector, wiring, network and shield checks completed
Diagnostics	Startup diagnostics reviewed and accepted
Function	Controlled application test completed
Safety / protection	Applicable safety or protection chain proved
Baseline	Final indications, alarms and response recorded
Release	Authorized acceptance and handover completed

Application-specific confirmation

High-performance machine control

Runs multi-task ControlLogix logic with local and distributed I/O.

EtherNet/IP control

Coordinates supported I/O nodes through the embedded gigabit EtherNet/IP port.

Integrated motion systems

Supports Integrated Motion on EtherNet/IP when the approved project and software version are used.

Process and plant automation

Executes ladder, structured-text, function-block and sequential-function-chart routines in a ControlLogix chassis.

Record actual test values and approvals in the site commissioning record; this guide does not replace the manufacturer's procedure.

Verified ApterPower navigation links; not approved substitutes

NO.	RELATED PRODUCT	APTERPOWER LINK
01	Allen-Bradley 1756-L81E	View product page
02	Allen-Bradley 1756-L83E	View product page
03	Allen-Bradley 1756-L84E	View product page
04	Allen-Bradley 1756-L85E	View product page
05	Allen-Bradley 1756-EN2T	View product page
06	Allen-Bradley 1756-EN2TR	View product page
07	Allen-Bradley 1756-EN2F	View product page
08	Allen-Bradley 1756-CN2R	View product page
09	Allen-Bradley 1756-A7	View product page
10	Allen-Bradley 1756-A13	View product page
11	Allen-Bradley 1756-A17	View product page
12	Allen-Bradley 1756-PA72	View product page
13	Allen-Bradley 1756-PB72	View product page
14	Allen-Bradley 1756-PA75	View product page
15	Allen-Bradley 1756-PB75	View product page
16	Allen-Bradley 1756-PSCA2	View product page
17	Allen-Bradley 1756-IF8	View product page
18	Allen-Bradley 1756-OF8	View product page

Recommendation links are navigation aids only and do not establish compatibility.

APTER POWER CONTACT

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



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