APTER■POWER

PRODUCT TECHNICAL REFERENCE

INDUSTRIAL AUTOMATION PRODUCT

1756-PSCA2

ControlLogix redundant power supply chassis adapter

Redundant ControlLogix chassis power transfer

IDENTITY	VERIFIED VALUE
Manufacturer	Allen-Bradley
System family	Allen-Bradley ControlLogix redundant power
Part number	1756-PSCA2
Country	USA
HS code	8537101190

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2 Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Function	Redundant power supply chassis adapter
Power-supply inputs	2 redundant supply cables
Backplane current capacity	4 A at 3.3 V DC
Operating temperature	0 to 60 degC
Relative humidity	5 to 95% noncondensing
Operating shock	30 g
Vibration	2 g at 10 to 500 Hz
Enclosure	Open style

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	two ControlLogix redundant power supplies
Companion hardware	two 1756-CPR2 cables
Field connection	compatible Series B ControlLogix chassis
Primary system function	Accepts two redundant power-supply cables
Controlled acceptance duty	Redundant controller chassis supply

3 System Role and Architecture

Redundant ControlLogix chassis power transfer

FUNCTION 1

Accepts two redundant power-supply cables

FUNCTION 2

Feeds one ControlLogix chassis backplane

FUNCTION 3

Supports power-supply redundancy diagnostics

FUNCTION 4

Mounts in the chassis power-adapter position

Matched system components

- two ControlLogix redundant power supplies
- two 1756-CPR2 cables
- compatible Series B ControlLogix chassis
- annunciator wiring where used

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	two ControlLogix redundant power supplies
Companion hardware	two 1756-CPR2 cables
Field connection	compatible Series B ControlLogix chassis
Primary system function	Accepts two redundant power-supply cables
Controlled acceptance duty	Redundant controller chassis supply

4 Applications and Engineering Context

Redundant controller chassis supply

Accepts two redundant power-supply cables

High-availability process rack

Feeds one ControlLogix chassis backplane

Controlled supply switchover

Supports power-supply redundancy diagnostics

Chassis-adapter replacement

Mounts in the chassis power-adapter position

TECHNICAL NOTE

De-energize both redundant supplies, identify both cable paths and annunciator conductors, and verify chassis Series compatibility before installation.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	1756-PSCA2 / 1756-PSCA2 recorded
Physical interface	two ControlLogix redundant power supplies
Companion check	two 1756-CPR2 cables
Functional proof	Accepts two redundant power-supply cables
Application test	Redundant controller chassis supply

5 Engineering Precautions

1. Verify the complete 1756-PSCA2 marking and its assigned Allen-Bradley ControlLogix redundant power position before work.
2. Place the connected redundant controller chassis supply process in the approved maintenance state.
3. Isolate applicable power and redundant controllogix chassis power transfer field energy before disconnecting conductors.
4. Record connector, conductor, address, firmware and software identities before removal.
5. Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 21000-34-10-20-062-04-02	Related industrial automation product	View Bently Nevada 21000-34-10-20-062-04-02 page
Bently Nevada 21000-34-10-20-058-04-02	Related industrial automation product	View Bently Nevada 21000-34-10-20-058-04-02 page
Bently Nevada 330881-16-00-307-06-02	Related industrial automation product	View Bently Nevada 330881-16-00-307-06-02 page
Bently Nevada 330881-16-00-200-06-02	Related industrial automation product	View Bently Nevada 330881-16-00-200-06-02 page
Bently Nevada 330103-00-25-05-02-00	Related industrial automation product	View Bently Nevada 330103-00-25-05-02-00 page
Bently Nevada 330106-05-30-10-02-IN	Related industrial automation product	View Bently Nevada 330106-05-30-10-02-IN page
Siemens 6RY1243-0EA00	Related industrial automation product	View Siemens 6RY1243-0EA00 page
Honeywell 10024-H-I	Related industrial automation product	View Honeywell 10024-H-I page

MANUFACTURER SOURCE RECORD

Rockwell Automation redundant power system documentation

1756-IN620; 1756-TD005

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