

INDUSTRIAL AUTOMATION PRODUCT

1394C-SJT10-D

1394 SERCOS interface 10 kW system module

three-phase power, logic power, shared DC bus and SERCOS motion control

IDENTITY	VERIFIED VALUE
Manufacturer	Allen-Bradley
System family	Allen-Bradley 1394 SERCOS interface drive system
Part number	1394C-SJT10-D

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Complete catalog number	1394C-SJT10-D
Rated AC input	324 to 528 V AC, three phase, 50/60 Hz
Continuous AC input current	13.0 A rms
Peak inrush current	8 A
System-module rating	10 kW
Logic power	24 V AC rms or 24 V DC, non-polarized
Input-power connection	Connector plugs and mating housings
Axis communication	SERCOS fiber-optic ring
Shunt support	Internal shunt with optional external passive shunt
Recommended external shunt	1394-SR10A where engineered
Contactor-cycle limit	Four cycles per minute
System fuse reference	600 V AC, 50 A circuit-breaker reference in publication

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	1394 axis modules
Companion hardware	SERCOS controller interface and fiber-optic ring
Field connection	approved input line filter and protection
Primary system function	Provides the 10 kW 1394 system-module function
Controlled acceptance duty	SERCOS multi-axis machine control

3

System Role and Architecture

three-phase power, logic power, shared DC bus and SERCOS motion control

FUNCTION 1

Provides the 10 kW 1394 system-module function

FUNCTION 2

Coordinates SERCOS motion communication

FUNCTION 3

Accepts separate logic and main-power connections

FUNCTION 4

Supports internal or engineered external shunt operation

Matched system components

- 1394 axis modules
- SERCOS controller interface and fiber-optic ring
- approved input line filter and protection
- bonded cabinet grounding and shunt circuit

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	1394 axis modules
Companion hardware	SERCOS controller interface and fiber-optic ring
Field connection	approved input line filter and protection
Primary system function	Provides the 10 kW 1394 system-module function
Controlled acceptance duty	SERCOS multi-axis machine control

4

Applications and Engineering Context

SERCOS multi-axis machine control

Provides the 10 kW 1394 system-module function

Coordinated servo drive power

Coordinates SERCOS motion communication

Shared DC-bus motion system

Accepts separate logic and main-power connections

1394 system-module replacement

Supports internal or engineered external shunt operation

TECHNICAL NOTE

Observe the five-minute high-voltage discharge warning, verify grounding and wireways, and use the published connector torque and interconnect diagrams.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	1394C-SJT10-D / 1394C-SJT10-D recorded
Physical interface	1394 axis modules
Companion check	SERCOS controller interface and fiber-optic ring
Functional proof	Provides the 10 kW 1394 system-module function
Application test	SERCOS multi-axis machine control

5

Engineering Precautions

- 1 Verify the complete 1394C-SJT10-D marking and its assigned Allen-Bradley 1394 SERCOS interface drive system position before work.
- 2 Place the connected sercos multi-axis machine control process in the approved maintenance state.
- 3 Isolate applicable power and three-phase power, logic power, shared dc bus and sercos motion control field energy before disconnection.
- 4 Record every connector, conductor, address, firmware and software identity 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
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 1394 SERCOS Interface Installation Manual

1394-IN002B-EN-P, February 2004

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

