

1394C-SJT10-D

1394 SERCOS interface 10 kW system module

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

PRODUCT SNAPSHOT

BRAND

Allen-Bradley

FAMILY

Allen-Bradley 1394 SERCOS interface drive

PART

1394C-SJT10-D

PRODUCT TYPE

1394 SERCOS interface 10 kW system module

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PRODUCT OVERVIEW

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

1

Provides the 10 kW 1394 system-module function

2

Coordinates SERCOS motion communication

3

Accepts separate logic and main-power connections

4

Supports internal or engineered external shunt operation

SYSTEM COMPONENTS

1394 axis modules

SERCOS controller interface and fiber-optic ring

approved input line filter and protection

bonded cabinet grounding and shunt circuit

TECHNICAL NOTE

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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
Contactactor-cycle limit	Four cycles per minute
System fuse reference	600 V AC, 50 A circuit-breaker reference in publication

ENGINEERING NOTE

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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330851 02 000 080 10 00 00	Related industrial automation product	View Bently Nevada 330851 02 000 080 10 00 00 page
Bently Nevada 330851 01 000 020 10 00 00	Related industrial automation product	View Bently Nevada 330851 01 000 020 10 00 00 page
Bently Nevada 330850 91 05	Related industrial automation product	View Bently Nevada 330850 91 05 page
Bently Nevada 330876 01 50 01 05	Related industrial automation product	View Bently Nevada 330876 01 50 01 05 page
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Bently Nevada 32000 28 05 15 080 03 02	Related industrial automation product	View Bently Nevada 32000 28 05 15 080 03 02 page
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APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Confirm the installed 1394 axis modules and SERCOS controller interface and fiber-optic ring against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended coordinated servo drive power function and retain the final test result.

ENGINEER FAQ

Q1 For 1394C-SJT10-D, what function does the 10 kW system module perform in a 1394 SERCOS drive?

It accepts the three-phase supply, establishes the shared DC bus and coordinates the SERCOS-connected axis modules for the installed motion system.

Q2 Which incoming supply range belongs to catalog 1394C-SJT10-D?

The documented main input is 324 to 528 V AC, three phase, at 50/60 Hz, with 13.0 A rms continuous input current.

Q3 For 1394C-SJT10-D, how is logic power applied separately from the main 1394 power connection?

The logic-power input accepts 24 V AC rms or 24 V DC and is non-polarized; it must remain identified separately from the three-phase main supply.

Q4 For 1394C-SJT10-D, what must be preserved when reconnecting the SERCOS fiber-optic ring?

Retain the documented ring order, transmitter-to-receiver direction and controller/axis sequence so the restored system presents the same SERCOS topology.

Q5 For 1394C-SJT10-D, when is the external 1394-SR10A shunt relevant?

The system module includes an internal shunt and supports an engineered external passive shunt; 1394-SR10A is the documented external-shunt reference where the application requires it.

Q6 For 1394C-SJT10-D, why is a five-minute wait required before servicing this system module?

The installation manual carries a high-voltage discharge warning. Isolate main and logic power, wait the stated five minutes and verify a safe condition before touching DC-bus or power terminals.

Q7 For 1394C-SJT10-D, which switching and protection details should be checked during a retrofit?

Confirm the published four-contactor-cycles-per-minute limit, the installed line protection and the publication's 600 V AC, 50 A circuit-breaker reference for this catalog.

Q8 How should the restored 1394C-SJT10-D position be commissioned?

Verify grounding, connector seating and shunt wiring, then energize in a controlled sequence and prove the shared DC bus, SERCOS ring and every assigned axis without drive or controller faults.

SOURCE Rockwell Automation 1394 SERCOS Interface Installation Manual | 1394-IN002B-EN-P, February 2004

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