

ARS 2102

Servo Positioning Controller

INSTALLATION | CONNECTION | COMMISSIONING | ACCEPTANCE

CONTROLLED WORK SEQUENCE

1

VERIFY

2

ISOLATE

3

CONNECT

4

TEST

Verify that the installed nameplate is ARS 2102 FS before applying these values. Match mains and 24 V supplies, motor data, encoder type, brake circuit, safety module and fieldbus configuration; only qualified drive personnel may energize and commission the controller.

CONTROLLED PREREQUISITES

Exact identity

Verify ARS 2102 against the nameplate and controlled record.

Approved system

Confirm the documented ARS 2000 FS servo-controller series system position and interfaces.

Evidence

Use ARS 2102 FS; 9200-2102-20; P-HB ARS2100 FS Version 5.0; MI ARS2100 FS Version 9.0 for the published technical and installation boundary.

RELATED PRODUCTS ON APTER POWER

01	Siemens 6RY1803-1DA04	OPEN
02	Siemens 6SL3352-6TE33-8AA3	OPEN
03	Siemens 6RY1803-0DA04	OPEN
04	Siemens C98043-A7106-L4	OPEN

APTER POWER SALES TEAM

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ARS 2102

Exact-model technical record

Complete model	ARS 2102	24 V control supply	24 V DC, +/-20%, 0.55 A plus brake and I/O load
Manufacturer	Metronix	Rated motor output	0.5 kVA
Product family	ARS 2000 FS servo-controller series	Maximum output for 5 s	1.0 kVA
Official designation	ARS 2102 FS	Rated output current	2.5 A RMS
Metronix order number	9200-2102-20	5 s output current	5 A RMS maximum
Mains supply	1 x 100 to 230 V AC, +/-10%, 50 to 60 Hz	0.5 s output current	10 A RMS maximum
Continuous mains current	2.4 A RMS maximum	Maximum PWM frequency	Approximately 20 kHz
Alternative DC supply	60 to 380 V DC	Internal brake resistance	60 ohm

OFFICIAL SOURCE COVERAGE

Source 1	Metronix ARS 2102 FS product page — Product overview and technical data
Source 2	ARS 2100 FS Product Manual — Version 5.0, technical and electrical installation chapters
Source 3	ARS 2100 FS Mounting Instructions — Version 9.0, technical and mounting chapters

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Installation and connection sequence

STEP 1

Confirm the ARS 2102 FS nameplate, order number 9200-2102-20 and installed option modules.

STEP 2

Isolate mains, DC-bus and 24 V control supplies and verify the documented discharge state before access.

STEP 3

Mount the controller vertically with unobstructed cooling and good heat transfer to the cabinet plate.

STEP 4

Connect PE, mains and brake circuitry exactly to the X9 assignment and approved project drawing.

STEP 5

Connect motor phases, brake, temperature sensor and shields to X6 without exceeding exposed-core limits.

STEP 6

Load only the approved motor, encoder, current-limit, safety and fieldbus parameter set.

RELATED PRODUCTS ON APTER POWER

01	Siemens 6RY1803-1DA04	OPEN
02	Siemens 6SL3352-6TE33-8AA3	OPEN
03	Siemens 6RY1803-0DA04	OPEN
04	Siemens C98043-A7106-L4	OPEN

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Commissioning and acceptance

CHECK 1

Verify STO or other installed safety functions before enabling torque.

CHECK 2

Perform a controlled low-speed direction test, review diagnostics and retain the final acceptance record.

CHECK 3

Verify that the installed nameplate is ARS 2102 FS before applying these values. Match mains and 24 V supplies, motor data, encoder type, brake circuit,

CHECK 4

Retain the final ARS 2102 identity, wiring, diagnostic and acceptance record.

RELATED PRODUCTS ON APTER POWER

01	Siemens 6RY1803-0DA03	OPEN
02	Siemens C98043-A7106-L1	OPEN
03	ABB PM590-ETH-1SAP150000R0271	OPEN
04	Allen Bradley 22B-D4P0N104	OPEN
05	ABB 3HAC043569-004	OPEN
06	ABB 3HAC5954-1	OPEN

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Acceptance reference and related products

Identity	Complete model ARS 2102 verified
Installed system	ARS 2000 FS servo-controller series
Connections	Power, polarity, shielding, address or slot record completed
Controlled test	Diagnostics and intended process response accepted

RELATED PRODUCTS ON APTER POWER

01	ABB 3BHE022293R0101-PCD232A	OPEN
02	Siemens 6SE7090-0XX87-4AH0	OPEN
03	Siemens C98043-A7109-L100	OPEN
04	Siemens 6RY1803-0CM20	OPEN
05	Siemens C98043-A7107-L4	OPEN
06	Siemens 6RY1803-0DB02	OPEN
07	Siemens 6SL3200-0SP06-0AA0	OPEN
08	Allen Bradley 22B-D6P0N104	OPEN

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