

SMC-Flex Power Pole

Allen-Bradley 41391-261-52 is an SMC-Flex power pole. It forms part of the motor-current power path inside the matching SMC-Flex smart motor controller.

IDENTITY RECORD

MANUFACTURER Allen-Bradley	FAMILY Allen-Bradley SMC-Flex smart motor control
EXACT MODEL 41391-261-52	PRIMARY DUTY SMC-Flex power-section repair

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REFERENCE PURPOSE

- 1

Establish the exact product identity and installed-system boundary.
- 2

Summarize manufacturer-supported technical data without transferring values from a similar model.
- 3

Provide a compact engineering path for selection, replacement and controlled commissioning.
- 4

Link verified related Apter Power product pages for adjacent family hardware.

TECHNICAL DATA

Current rating	251 A
Line voltage	200–480 V AC
Compatibility	SMC Flex / SMC-3, Series A & B
Internal components	2 SCRs and 1 internal bypass contactor
Part category	Replacement power pole
Product-page weight	0.35 kg
Product-page dimensions	22.8 × 11.8 × 5 cm

ENGINEERING NOTE

Lock out the motor feeder, verify the exact SMC-Flex frame and pole position, torque all power connections to the controller service procedure, then complete insulation and phase-current checks.

TECHNICAL VERIFICATION MATRIX

Identity control	Full model marking 41391-261-52 and installed execution
Host-system boundary	Allen-Bradley SMC-Flex smart motor control
Companion hardware	Matching SMC-Flex controller frame / Power-pole mounting hardware
Acceptance evidence	Documented smc-flex power-section repair functional result

MANUFACTURER SOURCE RECORD

Rockwell Automation Knowledgebase | replacement guidance for 41391-261-52 SMC-Flex power pole

Functional path and compatible system elements

FUNCTIONAL PATH

- 1

Forms a replaceable SMC-Flex power-path section
- 2

Carries controlled motor line current
- 3

Fits the matching SMC-Flex frame assembly
- 4

Supports repair of the controller power section

SYSTEM ELEMENTS

- 1

Matching SMC-Flex controller frame
- 2

Power-pole mounting hardware
- 3

Line and load conductors
- 4

SMC-Flex control module

APPLICATION BOUNDARIES

SMC-Flex power-section repair	Forms a replaceable SMC-Flex power-path section
Motor starter maintenance	Carries controlled motor line current
Soft-starter pole replacement	Fits the matching SMC-Flex frame assembly
Power-path fault restoration	Supports repair of the controller power section

CONTROLLED WORK SEQUENCE

- 1

Verify the complete 41391-261-52 marking, hardware execution and assigned Allen-Bradley SMC-Flex smart motor control position.
- 2

Place the process in the approved maintenance state and isolate every applicable energy source.
- 3

Record as-found wiring, shields, jumpers, cable tags, slot identity and diagnostics before removing 41391-261-52.
- 4

Use ESD controls and protect keyed connectors, terminals and assemblies while handling 41391-261-52.
- 5

Confirm the installed Matching SMC-Flex controller frame and Power-pole mounting hardware against approved drawings and configuration records.
- 6

Inspect mating hardware, terminal condition, grounding and mechanical retention before installation.
- 7

Restore power or network service in controlled stages; confirm status indications before functional commands.
- 8

Complete a documented functional test for smc-flex power-section repair and retain the as-left record.

DIAGNOSTIC DECISION GATE

If the expected response is absent, do not immediately transfer configuration or replace adjacent hardware. Recheck identity, seating, supply or network state, terminations, channel assignment and manufacturer diagnostics; then repeat the controlled test.

Related family pages, engineer FAQ and source record

Related Allen-Bradley drive and control hardware on Apter Power

MODEL	SERIES / SYSTEM ROLE	APTER POWER PAGE
1336T-LM1EN	Allen-Bradley drive interface/control hardware	Open product page
1426-M5E-DNT	Power-monitoring hardware for feeder systems	Open product page
1771-NOC	PLC-5 analog output control module	Open product page
1794-ACNR15	FLEX I/O ControlNet adapter	Open product page

ENGINEER FAQ

Q1	What must be matched before installation?	Match the full 41391-261-52 marking, revision or execution, assigned position and installed companion hardware.
Q2	What should be isolated first?	Use the site's approved maintenance state and isolate the energy sources serving Matching SMC-Flex controller frame and Power-pole mounting hardware.
Q3	What as-found record is required?	Record terminal identity, polarity, shields, jumpers, cable tags, configuration and diagnostic status.
Q4	Which compatibility check is mandatory?	Compare the Allen-Bradley SMC-Flex smart motor control slot, interface, companion hardware and wiring scheme with approved project documentation.
Q5	How should commissioning begin?	Begin with visual and continuity checks, then restore service in stages and observe normal status indications.
Q6	How should the assigned function be proved?	Use a controlled test for smc-flex power-section repair while required interlocks and process safeguards remain effective.
Q7	What should be checked after an abnormal result?	Recheck seating, terminations, supply or network condition, channel assignment and manufacturer diagnostics before further replacement.
Q8	What evidence should be retained?	Retain the 41391-261-52 identity, as-left wiring/configuration, final diagnostics and functional-test result.

MANUFACTURER SOURCE RECORD

Rockwell Automation Knowledgebase | replacement guidance for 41391-261-52 SMC-Flex power pole