

80190-580-01-R

Drive Processor Board

Allen-Bradley 80190-580-01-R is the exact manufacturer-listed drive processor board for the documented installed system.

BRAND	Allen-Bradley	FAMILY	Allen-Bradley PowerFlex 7000
PART	80190-580-01-R	SYSTEM ROLE	Carries the official DPM board designation

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80190-580-01-R

MANUFACTURER SOURCE RECORD

PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide
7000-TG002L-EN-P, February 2020

Product Overview

SYSTEM FUNCTION

Allen-Bradley 80190-580-01-R is the exact manufacturer-listed drive processor board for the documented installed system.

FUNCTION 1

Carries the official DPM board designation

FUNCTION 2

Uses the documented PowerFlex 7000 execution

FUNCTION 3

Supports the PowerFlex 7000 control architecture

FUNCTION 4

Preserves exact board identity during controlled replacement

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Allen-Bradley PowerFlex 7000
Primary interface	Carries the official DPM board designation
Engineering context	Record the existing board slot, connectors, cable labels, jumpers and drive configuration before removal. Install only in the matching PowerFlex 7000 execution and verify board recognition, communications and drive diagnostics before power-stage testing.
Commissioning duty	Verify board recognition and drive diagnostics before release.

TECHNICAL NOTE

Record the existing board slot, connectors, cable labels, jumpers and drive configuration before removal. Install only in the matching PowerFlex 7000 execution and verify board recognition, communications and drive diagnostics before power-stage testing.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Board designation	DPM	Documented execution	PowerFlex 7000
Board type	Drive Processor Board	Drive family	PowerFlex 7000

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Allen-Bradley 1747-BA	Allen-Bradley product	View Allen-Bradley 1747-BA page
Allen-Bradley 1784-PKTS	Allen-Bradley product	View Allen-Bradley 1784-PKTS page
Allen-Bradley 1784-KTCS	Allen-Bradley product	View Allen-Bradley 1784-KTCS page
Allen-Bradley 1747-ACN15	Allen-Bradley product	View Allen-Bradley 1747-ACN15 page
Allen-Bradley 2711P-RP8D	Allen-Bradley product	View Allen-Bradley 2711P-RP8D page
Allen-Bradley 2711P-RN6	Allen-Bradley product	View Allen-Bradley 2711P-RN6 page
Allen-Bradley 1791-OB32	Allen-Bradley product	View Allen-Bradley 1791-OB32 page
Allen-Bradley 1771-P4S1	Allen-Bradley product	View Allen-Bradley 1771-P4S1 page

ENGINEERING BOUNDARY

Confirm Allen-Bradley 80190-580-01-R, the complete PowerFlex 7000 or MV SMC Flex host identity, installed hardware execution, board or semiconductor position, connectors, wiring, grounding, cooling path, firmware or configuration where applicable, companion components and controlled commissioning results before service.

Applications and Precautions

Common Applications

PowerFlex 7000 control-board maintenance

Restores the documented DPM position in the drive control system.

Drive cabinet modernization

Preserves the approved board execution during a documented repair.

Control-path troubleshooting

Supports connector, recognition and diagnostic checks in the installed drive.

Post-replacement commissioning

Supports controlled verification before the power stage and motor are enabled.

Product Precautions

- 1

Confirm Allen-Bradley 80190-580-01-R, the DPM designation and the PowerFlex 7000 execution.
- 2

Isolate all drive power and prove stored energy discharged.
- 3

Use ESD controls and protect every board connector.
- 4

Record the installed slot, connectors, jumpers and cable labels.
- 5

Verify the replacement board matches the installed drive execution.
- 6

Seat connectors without force and reproduce the documented routing.
- 7

Restore power through the approved PowerFlex 7000 sequence.
- 8

Verify board recognition and drive diagnostics before release.

IMPORTANT NOTICE

Confirm Allen-Bradley 80190-580-01-R, the complete PowerFlex 7000 or MV SMC Flex host identity, installed hardware execution, board or semiconductor position, connectors, wiring, grounding, cooling path, firmware or configuration where applicable, companion components and controlled commissioning results before service.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	80190-580-01-R
Configuration	Restore power through the approved PowerFlex 7000 sequence.
Functional release	Verify board recognition and drive diagnostics before release.

Engineer FAQ

Q1 What board function is assigned to Allen-Bradley 80190-580-01-R?

The official spare-parts list identifies it as the DPM Drive Processor Board for PowerFlex 7000.

Q3 How is Allen-Bradley 80190-580-01-R distinguished from an ACB or XIO board?

Confirm the 80190-580-01-R catalog number and DPM designation; ACB and XIO functions use different official board numbers.

Q5 What handling precautions apply to Allen-Bradley 80190-580-01-R?

Use ESD controls, protect connectors and avoid disturbing adjacent boards or cable assignments.

Q7 Which diagnostics validate Allen-Bradley 80190-580-01-R?

Confirm correct board recognition, processor and communication status, and applicable PowerFlex 7000 diagnostics before power-stage testing.

Q2 Which installed data must be captured before removing Allen-Bradley 80190-580-01-R?

Record the DPM slot, all connector labels, cable routing, jumpers and the current drive configuration.

Q4 What configuration risk applies when replacing Allen-Bradley 80190-580-01-R?

The processor-board execution and installed drive configuration must be preserved; do not copy settings from another drive without an approved record.

Q6 What should be checked immediately after seating Allen-Bradley 80190-580-01-R?

Verify the documented slot, connector seating, jumpers and cable labels before applying control power.

Q8 What evidence should be retained after Allen-Bradley 80190-580-01-R service?

Retain the DPM identity, as-found and as-left configuration, connection map, recognition status, diagnostics and controlled functional test.

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