

80190-300-01-R

External I/O Board, 120-240 V AC

Allen-Bradley 80190-300-01-R is the exact manufacturer-listed external i/o board, 120-240 v ac for the documented installed system.

BRAND	Allen-Bradley	FAMILY	Allen-Bradley PowerFlex 7000
PART	80190-300-01-R	SYSTEM ROLE	Carries the official XIO board designation

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80190-300-01-R

MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

Allen-Bradley 80190-300-01-R is the exact manufacturer-listed external i/o board, 120-240 v ac for the documented installed system.

FUNCTION 1

Carries the official XIO board designation

FUNCTION 2

Uses the documented 120-240 V AC 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 XIO 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	XIO	Documented execution	120-240 V AC
Board type	External Input / Output Board	Drive family	PowerFlex 7000

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Allen-Bradley 1747-L531	Allen-Bradley product	View Allen-Bradley 1747-L531 page
Allen-Bradley 1746-OB32	Allen-Bradley product	View Allen-Bradley 1746-OB32 page
Allen-Bradley 1786-RPA	Allen-Bradley product	View Allen-Bradley 1786-RPA page
Allen-Bradley 1786-RPFM	Allen-Bradley product	View Allen-Bradley 1786-RPFM page
Allen-Bradley MOX720-P4668E-80026-518-01	Allen-Bradley product	View Allen-Bradley MOX720-P4668E-80026-518-01 page
Allen-Bradley 1786-CP	Allen-Bradley product	View Allen-Bradley 1786-CP page
Allen-Bradley 1783-MS10T	Allen-Bradley product	View Allen-Bradley 1783-MS10T page
Allen-Bradley 1783-EMS08T	Allen-Bradley product	View Allen-Bradley 1783-EMS08T page

ENGINEERING BOUNDARY

Confirm Allen-Bradley 80190-300-01-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 XIO position in the drive control system.

Control-path troubleshooting

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

Drive cabinet modernization

Preserves the approved board execution during a documented repair.

Post-replacement commissioning

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

Product Precautions

- 1

Confirm Allen-Bradley 80190-300-01-R, the XIO designation and the 120-240 V AC 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 80190-300-01-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	80190-300-01-R
Configuration	Restore power through the approved PowerFlex 7000 sequence.
Functional release	Verify board recognition and drive diagnostics before release.

Engineer FAQ

Q1 What is Allen-Bradley 80190-300-01-R in the PowerFlex 7000 spare-parts list?

It is the XIO External Input / Output Board for the documented 120–240 V AC execution.

Q3 What I/O information should be saved before removing Allen-Bradley 80190-300-01-R?

Record the XIO slot, terminal or connector labels, external signal assignments, cable routing and configured I/O map.

Q5 Why must Allen-Bradley 80190-300-01-R not be confused with a lower-voltage XIO variant?

The full catalog number and documented 120–240 V AC execution must match the installed field interface.

Q7 Which test validates Allen-Bradley 80190-300-01-R?

Confirm board recognition, configured I/O status and controlled point-by-point field operation before enabling normal drive control.

Q2 Which field-voltage range must match Allen-Bradley 80190-300-01-R?

Confirm the installed external I/O arrangement is the official 120–240 V AC execution before replacement.

Q4 How should the external circuits be isolated for Allen-Bradley 80190-300-01-R service?

Isolate drive control power and every connected 120–240 V AC field circuit, then prove them de-energized before handling the board.

Q6 What connection check is specific to Allen-Bradley 80190-300-01-R?

Reproduce each labeled external I/O assignment and verify that field and control references remain in their documented groups.

Q8 What record closes Allen-Bradley 80190-300-01-R replacement?

Retain the 120–240 V AC identity, I/O map, as-left connections, recognition status, point tests and drive diagnostics.

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