2MBI1000VXB-170E-50

Exact-identity installation and commissioning guide

PRODUCT SCOPE

Fuji Electric 2MBI1000VXB-170E-50 is a V-series 2-Pack IGBT module in the M272 PrimePACK package. Its published ratings are 1700 V collector-emitter voltage and 1000 A collector current.

Verified installation basis

Product family	Fuji Electric V series
Module configuration	2-Pack IGBT module
Collector-emitter voltage	1700 V
Collector current	1000 A
Maximum junction temperature	175 °C
Maximum operating junction temperature	150 °C
Case temperature	150 °C maximum

Verified related ApterPower product pages

Fuji Electric 2MBI600VXA-120E-51

Fuji Electric NP1L-TMB

Pre-work control

Record the installed system before any disconnection

Required checks

- Record the complete 2MBI1000VXB-170E-50 marking and installed position.
- Discharge the DC link and prove the power section de-energized before work.
- Verify the 1700 V circuit class, 1000 A design current and 2-Pack topology.
- Apply approved ESD controls while handling the module and gate terminals.
- Inspect the baseplate, thermal interface, busbars and screw terminals.
- Use the specified mounting and terminal tightening sequence for the converter.

HOLD POINT

Verify the full 2MBI1000VXB-170E-50 identity and the approved converter design before installation; a similar voltage or current class is not sufficient evidence of interchangeability.

Evidence to retain

- Complete product and installed-unit marking.
- Approved project, wiring and cabinet records.
- As-found connector, cable, address and diagnostic state.
- Acceptance plan and final results.

Verified related ApterPower product pages

ABB DSBC174 3BSE012211R1

ABB 07KR91 GJR5250000R0101

Installation sequence

Use the approved manufacturer procedure and site work controls

1 IDENTIFY

Record the complete 2MBI1000VXB-170E-50 marking and installed position.

2 ISOLATE

Discharge the DC link and prove the power section de-energized before work.

3 RECORD

Verify the 1700 V circuit class, 1000 A design current and 2-Pack topology.

4 VERIFY

Apply approved ESD controls while handling the module and gate terminals.

5 INSTALL

Inspect the baseplate, thermal interface, busbars and screw terminals.

6 RESTORE

Use the specified mounting and terminal tightening sequence for the converter.

CONFIGURATION CONTROL

Match the complete 2MBI1000VXB-170E-50 marking, circuit topology and gate-drive design before selecting the module. Installation must maintain the approved thermal interface, busbar geometry, insulation distances and clamping sequence. Following replacement, check gate signals, insulation, cooling performance and switching behavior under a controlled commissioning plan.

Verified related ApterPower product pages

ABB DI811 3BSE008552R1

ABB TU831V1 3BSE013235R1

Commissioning and acceptance

Return each affected function to its approved state

Identity	Record the complete 2MBI1000VXB-170E-50 marking and installed position.
Configuration	Use the specified mounting and terminal tightening sequence for the converter.
Physical installation	Check insulation, cooling flow and gate-drive signals before energization.
Functional acceptance	Commission under controlled load and record temperatures and switching results.
Diagnostics	Confirm that no unexplained product, communication or system diagnostic remains.
Release record	Document the final configuration, observed states, test results and responsible technician.

Verified related ApterPower product pages

- Allen-Bradley 2711P-RDT12H
- Allen-Bradley 1762-L40BWA
- Allen-Bradley 2711P-T10C4D1
- Allen-Bradley 2711P-K12C4A8

Handover record

Traceable evidence for the installed product

Final acceptance

- Inspect the baseplate, thermal interface, busbars and screw terminals.
- Use the specified mounting and terminal tightening sequence for the converter.
- Check insulation, cooling flow and gate-drive signals before energization.
- Commission under controlled load and record temperatures and switching results.

Manufacturer evidence used

- Fuji Electric exact-model product page for 2MBI1000VXB-170E-50.
- Fuji Electric 2MBI1000VXB-170E-50 semiconductor datasheet.
- Fuji Electric V-series IGBT module application and package information.

Verified related ApterPower product pages

ABB 07DI92

ABB SR511 3BSE000863R1

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Additional verified ApterPower product pages

ABB 07KT92 GJR5250500R0902

ABB 07KP90 GJR5251000R0202

ABB 07EB62R1 GJV3074342R1

ABB 07KP60R101 GJV3074360R101

ABB 07NG61R1 GJV3074311R1

ABB 07PS62R2 GJV3074332R2