ABB 1KHL178025R0102P-COM02

INSTALLATION AND COMMISSIONING GUIDE / EXACT-MODEL ENGINEERING FILE

ABB 1KHL178025R0102P-COM02 is identified as a industrial communication board for the ABB installed control platform. The complete marking and installed interface arrangement must be matched together before replacement.

01 Job scope and safe-work boundary

This field guide organizes the work sequence for the exact offered reference. The site-approved isolation and maintenance procedure remains controlling.

Match the complete marking	Compare 1KHL178025R0102P-COM02 with the installed label and applicable ABB documentation.
Check the offered item before ordering	Request photos of the offered 1KHL178025R0102P-COM02 and compare markings, interfaces and included items with the installed unit.

Board identity
Match the complete 1KHL178025R0102P-COM02 marking and board artwork.

Installed position
Preserve connector orientation, cable map and host position before removal.

Revision boundary
Similar appearance does not establish interface or revision equivalence.

Required work record

Nameplate record	Photograph the complete 1KHL178025R0102P-COM02 marking and any revision identifier.
Host record	Identify the exact installed position and functional ownership in ABB installed control platform.
Connection record	Label every connector, cable and terminal before disturbing the installed assembly.
Configuration record	Archive applicable project, address, setting or fail-safe information before removal.
Acceptance record	Define the expected indication and controlled functional result before energization.

Related product navigation

ABB DFC02 DFC-02	Related product page; verify the complete installed model before selection.
ABB DO801 3BSE020510R1	Related product page; verify the complete installed model before selection.
ABB SCYC51220-63901075	Related product page; verify the complete installed model before selection.
Hirschmann M4-FAST-8-SFP	Related product page; verify the complete installed model before selection.

02 Pre-installation readiness

Verify the complete identity	Check every token in 1KHL178025R0102P-COM02 against the offered label and approved record.
Isolate the work boundary	Follow the site procedure for stored energy, field power and electrostatic handling.
Record connections	Photograph and label carriers, terminals, cables and keying before removal.
Preserve configuration	Archive applicable ABB installed control platform settings before replacement.
As-found evidence	Retain the complete label, installed position, connector map and current indications before removal.
Replacement boundary	Compare included carriers, terminals, cables and accessories with the quotation and installed scope.

Stop conditions

Identity mismatch
Stop if any complete-model token or revision marker differs.

Interface mismatch
Stop if keying, connector count or host position does not match.

Missing baseline
Stop if the installed configuration or cable map cannot be recovered.

Technical readiness data

Complete order code	1KHL178025R0102P-COM02
Equipment role	Industrial Communication Board
System context	ABB installed control platform
Board reference	1KHL178025R0102P-COM02
Verification boundary	Match board artwork, connectors and host position

Planning questions

How should 1KHL178025R0102P-COM02 be identified before a replacement is approved?	Compare every token in the complete marking, installed position and documented industrial communication board role. Confirm the physical label before approval.
What evidence should be retained before removing 1KHL178025R0102P-COM02?	Record the mounting position, connected interfaces, status indications and current ABB installed control platform configuration. Photograph the complete label before disconnection.
How should the interfaces for 1KHL178025R0102P-COM02 be checked during installation?	Map each connector, terminal and cable to the as-found record and applicable manufacturer documentation. Preserve keying and shielding arrangements.

03 Replacement sequence

01 Record	Capture marking, position, connections, settings and current indications.
02 Isolate	Apply the approved energy-isolation and ESD procedure for the installed system.
03 Compare	Check the offered unit, included items and interface execution against the removed unit.
04 Fit	Install without forcing connectors; restore routing, shielding and keying from the record.
05 Configure	Restore only the approved settings, project data or fail-safe behavior that applies.
06 Prove	Run the product-specific commissioning checks and retain the results.

Product-specific installation focus

Installed-system replacement	Compare the exact code, host position and connected interfaces with the removed item.
Planned maintenance	Capture the as-found label, status and configuration before disturbing the installation.
Controlled commissioning	Restore documented connections and prove the intended signal, communication or control response.
Spare qualification	Keep revision, configuration and acceptance evidence with the spare-part record.

Connection restoration controls

Position	Restore the documented host position for 1KHL178025R0102P-COM02.
Orientation	Use the as-found orientation and keying; do not force a connector or carrier.
Cable ownership	Reconnect each labeled path to its original documented interface.
Settings	Restore only the approved address, project, fail-safe or hardware settings that apply.
Inspection	Complete a visual and continuity review before controlled energization.

Field decision notes

Evidence scope	Public exact-model manufacturer data are limited; only the complete identity and verification boundary are treated as exact-model facts.
Installation boundary	The exact installed carrier, terminals, cables and project configuration remain site-specific.
Technical reference	Complete supplied marking and installed ABB system records

04 Commissioning and acceptance

Physical path	Confirm supported host position, optical medium, connector cleanliness and link partner.
Link state	Observe the port indication before and after the approved connection is made.
Traffic proof	Use the host diagnostics to prove the intended data path, not only optical link.
As-left record	Retain slot, transceiver type, fiber path and final diagnostic state.

Enquiry-to-dispatch record

Review your reference	Send the complete 1KHL178025R0102P-COM02 marking, quantity and installed-system context.
Confirm the offer	Review the offered identity, condition, included items and delivery details.
Arrange dispatch	Confirm the accepted quantity and destination in the quotation.

Applicable technical data

Identity decision	Use 1KHL178025R0102P-COM02 as the complete controlling reference.
Installed position	Record the host or carrier position within ABB installed control platform.
Interface evidence	Retain connector orientation, cable ownership, keying and observed indications.
Revision boundary	A similar family name or appearance does not establish interchangeability.

Result record matrix

Baseline	Record the pre-test state for 1KHL178025R0102P-COM02 and its host position.
Stimulus	Apply only the approved controlled command, signal or diagnostic action.
Observation	Capture module indication, host diagnostic and field response together.
Comparison	Compare the result with the approved system record, not a generic family expectation.
Disposition	Accept, correct and retest, or record the exception with its owner.

Acceptance boundary

Commissioning should progress from identity and connection checks to controlled power-up, diagnostics and functional proof. Keep the final status, test conditions and open exceptions in the handover record.

05 Fault isolation and handover

How can a suspected 1KHL178025R0102P-COM02 fault be separated from wiring or carrier faults?	Verify supply and reference conditions, then inspect mating hardware and external wiring. Use controlled substitution only after both signal paths are documented.
What should be verified after fitting 1KHL178025R0102P-COM02?	Confirm normal indications, communication or signal continuity and the intended controlled-system response under an approved test state.
Can 1KHL178025R0102P-COM02 be replaced by a similar-looking assembly?	No direct equivalence is established by appearance. Compare the complete code, revision, interface execution and installed configuration.
What handover record is appropriate after work on 1KHL178025R0102P-COM02?	Retain offered and removed markings, connection photographs, configuration evidence, diagnostics, functional-test results and unresolved exceptions.

Handover pack

Identity evidence
Offered and removed markings plus installed position.

Configuration evidence
As-found and as-left settings or project record.

Test evidence
Diagnostics, controlled functional results and open exceptions.

Close-out checks

Identity closed	The as-left record names 1KHL178025R0102P-COM02 without a shortened family reference.
Interfaces closed	Every restored connection is traceable to the pre-work record.
Function closed	The intended industrial communication board role has a recorded controlled-test result.
Exceptions closed	Outstanding diagnostic, configuration or scope exceptions have an owner and action.

Related product references

Hirschmann M-FAST SFP-MM/LC	Related product page; verify the complete installed model before selection.
OPTILOGTC OL2109	Related product page; verify the complete installed model before selection.
General Electric DS200IMCPG1CGC	Related product page; verify the complete installed model before selection.
Bently Nevada 3300/47	Related product page; verify the complete installed model before selection.
ABB 3BHE036290R0005 GDC806 B05	Related product page; verify the complete installed model before selection.

Discuss the complete 1KHL178025R0102P-COM02 marking and installed configuration.
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Scan the WhatsApp QR to share nameplate and installed-system evidence.