ABB SNAT609TAI SNAT 609 TAI

ACV 700 Tacho and I/O Interface Board

ABB SNAT609TAI SNAT 609 TAI ACV 700 Tacho and I/O Interface Board with verified technical identity, model-specific selection data and controlled commissioning guidance.

01 Product identity and selection data

Complete model	SNAT609TAI SNAT 609 TAI
Product type	ACV 700 Tacho and I/O Interface Board
Manufacturer	ABB
System / platform	ABB ACV 700 digital drive controller

02 Exact-model technical capability map

Board type	SNAT 609 TAI
Documented function	Tacho and I/O interface
Drive family	ACV 700
Motor-control board interface	SNAT 603 CNT via 36-pole flat cable
Field I/O and tacho interface	SNAT 602 TAC via 40-pole flat cable
APC communication	Fibre-optic link

IGBT interface	SNAT 7261 INT via 20- and 40-pole flat cables
GTO interface	SNAT 607 MCI via 10-, 20- and 40-pole flat cables
Inverter-number selection	Positions 1 through 4
Constant-current selections	1.6 mA or 9 mA per channel
Tacho-channel control	Edge-oscillation inhibition jumpers

03 Engineering role and selection boundary

Drive-signal concentration
The board brings tacho, field I/O and motor-control signals together in the ACV 700 controller.

Power-stage dependent cabling
IGBT and GTO executions use different companion boards and ribbon-cable combinations.

Jumper-defined behavior
Inverter number, constant-current channels and tacho inhibition must be copied from the removed board.

Exact marking
Approve the complete order reference only after the installed interfaces and companion hardware agree.

Technical basis	ABB ACV 700 hardware and DDCTool documentation for SNAT 609 TAI
Installed relationship	ABB ACV 700 digital drive controller
Release gate	Resolve identity, interface and compatibility differences in the written offer before release.

04 Engineering overview and system application

SNAT 609 TAI is the ABB ACV 700 tacho and I/O interface board. It routes field I/O and tachometer signals through SNAT 602 TAC and exchanges control signals with SNAT 603 CNT.
Its companion main-circuit interface differs between IGBT and GTO power stages. The board also carries fibre-optic communication to the APC and jumper selections for inverter identity, current channels and tacho input behavior.
Before replacement, photograph all jumpers and flat cables and export drive parameters. After installation, verify auxiliary supplies, tacho feedback, I/O status, fibre communication and controlled motor response.

Application map

ACV 700 tacho feedback
Route and condition the documented tachometer channels.

Drive field I/O interface
Transfer field I/O through the SNAT 602 TAC relationship.

APC communication
Maintain the documented fibre-optic control link.

IGBT or GTO drive service
Restore the correct companion board and ribbon-cable arrangement.

Lifecycle and available-unit boundary

Lifecycle status	Legacy installed-base drive board
Supply scope	the SNAT609TAI SNAT 609 TAI acv 700 tacho and i/o interface board; companion hardware only when itemized
Dispatch	Swift global dispatch
Selection basis	Complete marking, installed relationship and written quotation

Technical notes and evidence boundary

Exact identity	SNAT609TAI SNAT 609 TAI
Documented function	ACV 700 Tacho and I/O Interface Board
Technical evidence	ABB ACV 700 hardware and DDCTool documentation for SNAT 609 TAI
Evidence boundary	Only the documented ABB ACV 700 digital drive controller relationship and stated exact-model values are applied
Commissioning record	Retain installed markings, configuration and functional proof

Additional verified exact-model data

Evidence scope	No adjacent-model value is applied without a documented exact-model relationship.

05 Installation and product precautions

Save drive parameters
Back up motor, I/O and regulator records.

Photograph every jumper
Retain inverter, current and tacho selections.

Map all flat cables
Separate CNT, TAC, IGBT and GTO interfaces.

Protect fibre connections
Cap, clean and preserve cable routing.

Check auxiliary supplies
Verify rails and diagnostics before motor enable.

Test tacho and I/O
Prove feedback, communication and controlled drive response.

Controlled verification sequence

01 Record	Send the complete SNAT609TAI SNAT 609 TAI marking, revision labels, current-unit photographs and installed position.
02 Isolate	Apply the approved isolation and prove the safe state before disturbing the installed arrangement.
03 Compare	Reconcile the complete marking, interfaces, companion hardware and approved system record.
04 Prove	Compare the offered SNAT609TAI SNAT 609 TAI interfaces, ratings and included items with the approved system record before ordering.
05 Handover	Retain photographs, settings, readings, diagnostics and accepted deviations.

Engineering decision questions

Which companion boards connect directly to SNAT609TAI SNAT 609 TAI?
SNAT 603 CNT and SNAT 602 TAC are documented interfaces; the main-circuit board is SNAT 7261 INT for IGBT or SNAT 607 MCI for GTO.

Why must the jumper positions of SNAT609TAI SNAT 609 TAI be photographed?
They set inverter number, constant-current selections and tacho-channel edge-oscillation inhibition.

Which current selections are documented on SNAT609TAI SNAT 609 TAI?
The constant-current channel jumpers select 1.6 mA or 9 mA as shown in the ACV 700 hardware documentation.

How is SNAT609TAI SNAT 609 TAI connected to the APC?
The board uses a fibre-optic link, so connector cleanliness, cable route and endpoint identity must be preserved.

Verified related product pages

Recommended product	ABB PM511V16 3BSE011181R1
Recommended product	ABB F4332D 3HAC024322-001
Recommended product	ABB 170M5388/PC72UD13C250T 3AUA0000090404
Recommended product	ABB 170M6467 3AUA0000062487

Discuss the complete marking and installed application with Apter Power

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Scan the approved QR code for direct contact and quotation support.