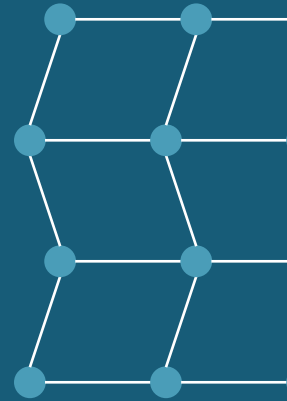


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB NTHS03

Product Reference

ABB NTHS03 Hydraulic-Servo Termination Unit



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB NTHS03
Reference number	NTHS03
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/nths03>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB NTHS03 is the termination unit identified by ABB as an existing companion component in the Symphony Plus Harmony Rack SPHSS13 hydraulic-servo control arrangement. Its documented system role is to provide the termination/interface point used with the SPHSS13 hydraulic servo module and NKHS03 cable so the controller-side module can be connected to the engineered turbine valve-position field circuit; the exact terminal allocation and internal circuitry must come from the ABB NTHS03 instruction and project drawing. System context: ABB NTHS03 Hydraulic-Servo Termination Unit.

Published field	Manufacturer-published value or verified identity note
Manufacturer	ABB
Model	NTHS03
Published component class	Termination unit used with the SPHSS13 hydraulic-servo module arrangement
Verified companion cable	NKHS03
Verified current companion module	SPHSS13 hydraulic servo module
System platform	ABB Ability Symphony Plus Harmony Rack / S+ Turbine context
Associated feedback signal	LVDT position feedback in the SPHSS13 system; exact NTHS03 terminals and ratings unknown

System function and signal path

01	Termination Role: Provides the documented termination-unit position associated with SPHSS13 and the NKHS03 cable in a Harmony Rack turbine hydraulic-servo arrangement.
02	Associated Feedback: The SPHSS13 system accepts AC or DC LVDT actuator-position feedback. The cited public sources do not publish the NTHS03 terminal map, excitation routing, common-mode limits, or calibration connections.
03	Associated Outputs: The SPHSS13 system regulates servo-valve current, supports redundant coils, and can interface to I/H converter ranges described by ABB. These are system/module capabilities and must not be relabeled as independent NTHS03 output ratings.
04	Associated Discrete Signals: The SPHSS13 system includes raise, lower, and trip-bias contact inputs and a hard-manual output; exact NTHS03 termination assignments are unknown from the cited public sources.

Applications, answers, and official sources

1 Steam-turbine valve positioning: Provides the documented termination point in an SPHSS13 control loop positioning steam-turbine throttle or control valves from LVDT feedback.

2 Gas-turbine fuel-valve control: Supports the engineered SPHSS13/NKHS03 field interface for servo control and position feedback in a gas-turbine fuel-valve loop.

3 Inlet-guide-vane or nozzle-angle positioning: Terminates the documented field circuits used by the SPHSS13 hydraulic-servo system for inlet-guide-vane or nozzle-angle actuation.

4 Valve-position indication and tuning: Supports the project termination arrangement for LVDT position reporting and local feedback/demand testing or tuning, including non-modulating valve-position applications documented for SPHSS13.

Frequently asked questions

What is ABB NTHS03?	ABB identifies NTHS03 as the termination unit used as an existing companion component in the SPHSS13 hydraulic-servo module arrangement.
Which ABB module is officially associated with NTHS03?	ABB's Symphony Plus presentation associates NTHS03 with the SPHSS13 hydraulic servo module.
Which cable is officially associated with it?	ABB identifies NKHS03 as the companion cable in the SPHSS13/NTHS03 arrangement.
What does the associated SPHSS13 system control?	ABB describes SPHSS13 as a valve-position control module that drives a servo valve or I/H converter and uses LVDT actuator-position feedback.
Does NTHS03 itself execute valve control?	No such processing role is documented. The SPHSS13 is the intelligent I/O/control module; NTHS03 is the termination component.
Which signals are associated with the system?	The SPHSS13 system uses LVDT feedback, redundant servo or I/H outputs, feedback/demand test outputs, and raise/lower/trip-bias contacts. Exact NTHS03 terminal assignments are not public in the cited sources.

Official ABB sources

ABB Symphony Plus life cycle updates presentation	https://library.e.abb.com/public/0e820d314f9e491380a1bfbf0e7073d1/04_Symphony%20Plus%20life%20cycle%20updates-Jim%20Day.pdf
ABB Ability Symphony Plus Product Catalog	https://library.e.abb.com/public/fa6c9b92b1ef4d9cba4acd211ba01e5b/2VAA005340%20en%20E%20Symphony%20Plus%20Product%20Catalog.pdf.pdf
ABB Ability Symphony Plus HR Series Control and I/O	https://new.abb.com/control-systems/symphony-plus/control-and-io/hr-series-control-and-i-o
ABB Ability Symphony Plus overview	https://new.abb.com/control-systems/symphony-plus