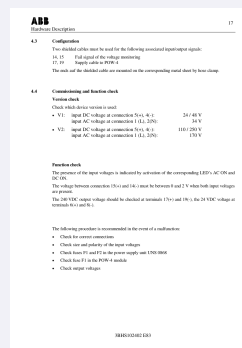


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

HIEE305120R0002 UNS0868A-P V2

External excitation power supply



PRODUCT	HIEE305120R0002 UNS0868A-P V2
FAMILY	UNITROL F excitation system
FUNCTION	External excitation power supply
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from ABB documentation. This guide supplements the complete manufacturer manual and site procedure.

01

CONFIRM THE ORDERED CONFIGURATION

Product Function	External excitation power supply unit
Power Supply Version	UNS 0868A-P V2
ABB Identification	HIEE305120R2
DC Input Range	110 to 250 V DC
AC Input Rating	170 V AC
Main DC Output	240 V DC

02

PREPARATION AND CONNECTION

- Confirm the complete HIEE305120R0002 UNS0868A-P V2 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

ABB

17

Hardware Description

4.3 Configuration

Two shielded cables must be used for the following associated input/output signals:

- 14, 15 Fail signal of the voltage monitoring
- 17, 19 Supply cable to POW-4

The ends of the shielded cable are mounted on the corresponding metal sheet by hose clamp.

4.4 Commissioning and function check

Version check

Check which device version is used:

- V1: input DC voltage at connection 5(+), 4(-): 24 / 48 V
input AC voltage at connection 1 (L), 2(N): 34 V
- V2: input DC voltage at connection 5(+), 4(-): 110 / 250 V
input AC voltage at connection 1 (L), 2(N): 170 V

Function check

The presence of the input voltages is indicated by activation of the corresponding LED's AC ON and DC ON.

The voltage between connection 15(+) and 14(-) must be between 0 and 2 V when both input voltages are present.

The 240 VDC output voltage should be checked at terminals 17(+) and 19(-), the 24 VDC voltage at terminals 6(+) and 8(-).

The following procedure is recommended in the event of a malfunction:

- Check for correct connections
- Check size and polarity of the input voltages
- Check fuses F1 and F2 in the power supply unit UNS 0868
- Check fuse F1 in the POW-4 module
- Check output voltages

3BHS102402 E83

04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	ABB Hardware Description 3BHS102402 E83
Product record	HIEE305120R0002 UNS0868A-P V2
Manufacturer	ABB
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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