List of related manuals

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<td>ACS800-67 wind turbine converters system description and start-up guide</td>
<td>3AUA0000095094</td>
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You can find manuals and other product documents in PDF format on the Internet. See section Document library on the Internet on the inside of the back cover. For manuals not available in the Document library, contact your local ABB representative.
Supplement

ACS800-67 power cabinet (+C112)

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Introduction to the supplement

What this chapter contains
This chapter describes the intended audience and contents of the supplement.

Safety
For the safety instructions, see ACS800-67 wind turbine converters for asynchronous slip ring generators hardware manual [3AFE68392454 (English)]. You must follow the safety instructions when installing, operating and maintaining the power cabinet of the ACS800-67 wind turbine converter. If ignored, physical injury or death may follow, or damage may occur to the converter, the generator or driven equipment. Read the safety instructions before you work on the power cabinet.

Target audience
This supplement is intended for people who work on the power cabinet (option +C112) of the ACS800-67 wind turbine converter. Read the supplement before working on the power cabinet. For other instructions, see ACS800-67 wind turbine converters for asynchronous slip ring generators hardware manual [3AFE68392454 (English)]. The reader of the supplement is expected to know the standard electrical wiring practices, electronic components and electrical schematic symbols.

Purpose of the supplement
This supplement describes the operation and gives instructions on maintaining the power cabinet of the ACS800-67 wind turbine converter.
Contents of the supplement

The chapters of this supplement are briefly described below.

*Operation principle and hardware description* describes the operation and construction of the power cabinet.

*Preventive maintenance* contains preventive maintenance instructions for periodical maintenance.

Related documents

See *List of related manuals* inside of the front cover.

Categorization by option code

The instructions and data which concern only certain optional selections are marked with plus codes (e.g., +C112). The options included in the delivery can be identified from the plus codes visible on the type designation label.
Operation principle and hardware description

What this chapter contains

This chapter describes the power cabinet option +C112 of the ACS800-67 wind turbine converter.

General

The power cabinet is an incoming unit for the ACS800-67 wind turbine converter. The power cabinet contains main switching and disconnecting devices such as main circuit breaker and stator circuit contactor and connection terminals to the power supply network and generator stator. The power cabinet is an integral part of the converter line-up.

Power cabinet option +C112 is optimized for 1.5 MW wind turbine use. In this option the protection class of the rear air filter is IP22. Option +C112 contains protection switches F171 and F172, and overtemperature thermostat T105.6. There is also an additional protection shield between main circuit breaker MCB1 and stator contactor MCB2. Cabinet heaters are moved to a better position to improve air flow during heating. Also shrouds are improved for better protection.
10 Operation principle and hardware description

Layout

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### Operation principle and hardware description

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<td>4</td>
<td>Stator cable connection terminals</td>
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</table>
Preventive maintenance

What this chapter contains
This chapter contains preventive maintenance instructions.

Replacing the rear IP22 air filter
IP22 air filter is located on the upper part of the power cabinet rear side.
1. Remove the fasteners at the top of the grating.
2. Lift the grating and pull it away from the cabinet.
3. Replace the air filter mat.
4. Install the grating in reverse order.
14 Preventive maintenance
Further information

Product and service inquiries
Address any inquiries about the product to your local ABB representative, quoting the type designation and serial number of the unit in question. A listing of ABB sales, support and service contacts can be found by navigating to www.abb.com/drives and selecting Sales, Support and Service network.

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