

APTER POWER PRODUCT REFERENCE MANUAL

SA811F-3BDH000013R1

Freelance AC 800F 115/230 V AC Power Supply

ENGINEERING LENS	POWER CONVERSION AND CONTROLLED POWER-FAIL RESPONSE
SYSTEM	ABB Freelance AC 800F
SOURCE CONTROL	Manufacturer-published information only

This original Apter Power manual explains power conversion and controlled power-fail response using only the manufacturer source named inside the document.

Manufacturer	ABB
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Engineering clarity for power conversion and controlled power-fail response.

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SCAN FOR PRODUCT & QUOTE
SA811F-3BDH000013R1

1. Product Identity and System Role

SA811F-3BDH000013R1 is an ABB Freelance power-supply module for AC 800F hardware. It accepts a self-adjusting 115/230 V AC input and supplies isolated 3.3 V DC and 5 V DC rails for the controller, with open-circuit, overload, sustained short-circuit, and power-fail handling described by ABB.

The module converts plant AC power into regulated controller rails and generates a power-fail signal so the CPU can shut down in a controlled manner and preserve a safe state during an input interruption.

Model Configuration

Field	Verified information
Complete model	SA811F-3BDH000013R1
Manufacturer	ABB
Product description	Freelance AC 800F 115/230 V AC Power Supply
System	ABB Freelance AC 800F

Product-Specific Design Focus

power conversion and controlled power-fail response

2. Technical Specifications and Evidence Boundary

Only values supported by the named ABB source are stated. Where the complete ordering code is absent from public data, the field is explicitly marked for verification.

Parameter	Verified value
Manufacturer	ABB
Input	115/230 V AC; permissible 90 to 260 V AC
Frequency	47 to 63 Hz
Outputs	3.3 V DC and 5 V DC, typical +/-3%
Output capability	6.5 A at 3.3 V; 5.5 A at 5 V
Total output power	Maximum 35 W
Backup energy	>20 ms
Weight	0.460 kg

Evidence Note

Use the complete SA811F-3BDH000013R1 identity. ABB continues to list SA811F in official spare-parts material, while the reviewed product catalog does not state a current lifecycle phase for this exact article. Values not published in the cited ABB source are intentionally not inferred.

3. Functions, Applications and Matched Components

Core Functions

- The module converts plant AC power into regulated controller rails and generates a power-fail signal so the CPU can shut down in a controlled manner and preserve a safe state during an input interruption.
- Preserves the documented role within ABB Freelance AC 800F.
- Supports model-specific engineering review without substituting unverified third-party data.

Application Areas

Application	System role
ABB Freelance AC 800F	Maintains the documented power conversion and controlled power-fail response role in a correctly matched installation.
Process and machine automation	Supports the control, communication, power, safety, measurement, or protection duty stated in the official source for this exact or verified family identity.
Lifecycle-controlled maintenance	Requires complete-code, nameplate, host-system, and project verification before replacement or recommissioning.

Compatible Components

- ABB PM 803F controller hardware stated in the reviewed catalog
- Freelance V7.1 SP2a or later as specified by ABB
- Controller rack and wiring arrangement documented for SA 811F

Lifecycle Status

ABB continues to list SA811F in official spare-parts material, while the reviewed product catalog does not state a current lifecycle phase for this exact article.

4. Installation Precautions

- Match every character of SA811F-3BDH000013R1 to the physical nameplate before work.
- Use the exact ABB manual, wiring drawing, and safety instructions for the installed revision.
- De-energize and apply the required lockout, discharge, ESD, and stored-energy controls before removal.
- Back up firmware, parameters, controller project, calibration, and network settings where applicable.
- Verify supply, signal type, polarity, grounding, shielding, connector pinout, load, and environmental limits.
- Commission with the manufacturer test procedure and record results before returning equipment to service.

DECISION GATE - Verify before installation

Use the complete SA811F-3BDH000013R1 identity. ABB continues to list SA811F in official spare-parts material, while the reviewed product catalog does not state a current lifecycle phase for this exact article. Values not published in the cited ABB source are intentionally not inferred.

Controlling records: physical nameplate, current ABB document, and host-system drawings.

5. Official Source and Use Notice

Official manufacturer source

ABB Freelance DCS Product Catalog, SA 811F section, article 3BDH000013R1.

<https://library.e.abb.com/public/46dca10f2c7846ab971cfbae4f331f68/3BDD015188%20en%20E%20Freelance%20DCS%20Product%20Catalog.pdf>

Apter Power product page

<https://www.apterpower.com/ABB/sa811f-3bdh000013r1>

Use Notice

This is an original Apter Power model-specific reference prepared from the ABB source named above. It is not a ABB publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and a model-specific quotation, visit www.apterpower.com or contact sales13@apterpower.com.