AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

AC800F FI820F 3BDH000031R1

Dual Channel Serial Module

TYPE	REFERENCE	FAMILY	SCOPE
Dual Channel Serial Module	**FI820F**	**Freelance AC 800F**	**Exact-model data**

ABB FI820F 3BDH000031R1 adds two serial communication channels to an AC 800F controller. The module supports Modbus as its standard protocol, allowing the configured controller to exchange serial process data through electrically isolated interfaces rather than adding a PROFIBUS connection.

01 DOCUMENTED PRODUCT REFERENCE

Serial channels	2
Standard protocol	Modbus
Maximum configurable transmission rate	38.4 kBd
Selectable physical interfaces	RS485 half-duplex; RS422 full-duplex; RS232
Interface isolation	All serial interfaces electrically isolated
Base-unit supply	5 V ±3%
Module power consumption	1.6-2.6 W, dependent on communication
Channel supply	5 V ±10%

Manufacturer data summarized for the identified model and stated conditions.

02 TECHNICAL DATA

Power per serial channel	Idle: 0.15 W; communicating: 0.30 W
Termination supply voltage	5 V ±10% at Vcc_Term
Maximum termination-supply current	20 mA
Front serial connector	26-pin female
Redundancy arrangement	Second AC 800F required
Live module exchange	Insertion and removal during operation supported
Diagnostic indicators	Status; RxD0; TxD0; RxD1; TxD1

03 APPLICATION AND CONFIGURATION

- FI820F and 3BDH000031R1 marking
- Serial protocol, not PROFIBUS DP
- Correct cable-selected interface
- AC 800F and project compatibility
- Use the applicable manufacturer safety and installation instructions.

04 OFFICIAL DOCUMENTATION

ABB Freelance DCS Product Catalog, 3BDD015188 Rev E

FI 820F section: printed pages 47-48; exact 3BDH000031R1 identity.

Independently prepared Amikon reference summary, not an original manufacturer manual. Ratings apply only under their documented conditions. Confirm the supplied marking and approved configuration before selection, installation or replacement.

AMIKON PRODUCT SUPPORT

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