MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Selected official pages for procurement and maintenance review

PRODUCT BRAND

ABB

PRODUCT MODEL

AC800F FI820F 3BDH000031R1

FI 820F, article 3BDH000031R1: serial-module description, technical data, status indicators and 26-pin front-panel connections.

OFFICIAL SOURCE

Freelance Product Catalog, Version 9.2

3BDD015188 Rev. A; printed pages 54-55

ABB-authored source pages follow unchanged. Catalog extracts and technical notes are reference material, not a complete service or installation manual.

AMIKON PRODUCT SUPPORT

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Amikon Limited prepared this independent reference package. Original manufacturer content, colors, drawings and printed pagination are retained on the following pages.



4.3.9 Serial module FI 820F

Name	Short Description	Article No.
FI 820F	Fieldbus Module, Serial (dual channel) To use together with PM 802F or PM 803F.	3BDH000031R1

The FI 820F module provides connectivity to a variety of serial fieldbuses and serial protocols. Standard protocol is MODBUS

By using different connection cables the physical interface can easily be selected: RS485 (half duplex), RS422 (full duplex) or RS232. All interfaces are electrically isolated and support redundant operation in conjunction with a second AC 800F.

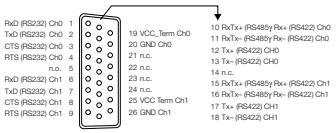
Features:

- Provides 2 serial interfaces
- Transmission rates up to 38.4 kBd configurable
- Physical interfaces RS485, RS422, RS232 selectable
- Electrical isolation
- Module can be removed or inserted during operation
- Redundant operation, with redundant AC 800F
- G3 compliant Z variant available (see also Chapter „4.5 AC 800F coated and G3 Compliant Hardware“)

Technical data

Technical data FI 820F	
Rated voltage	5 V, ± 3% from basic unit
Power consumption	1.6 W - 2.6 W, appending from communication
Channel supply: Raged voltage Power consump. per channel	 5 V, ± 10% 0.15 W, when idling 0.30 W, during communication
Output voltage for termination (Vcc_Term) Rated voltage Max. output current	 5 V, ± 10% 20 mA
Weight	Approx. 0.145 kg, 0.32 lbs

LED displays	Status	Description
Status	Off	No supply power, module is isolated
	Green	Module is active and working properly
	Orange	Module has been identified by AC 800F, but has not yet been activated
	Red	Module powered up, but not yet identified, or an error has occurred
RxD0	Green	Receive data on channel 0
TxD0	Green	Transmit data on channel 0
RxD1	Green	Receive data on channel 1
TxD1	Green	Transmit data on channel 1



Front panel connections
Serial - 26-pin female connector