AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

PM802F 3BDH000002R1

AC 800F Controller Base

TYPE	REFERENCE	FAMILY	SCOPE
AC 800F Controller Base	**PM802F**	**Freelance AC 800F**	**Exact-model data**

ABB PM802F 3BDH000002R1 is the 4 MB base unit for an AC 800F controller. It cyclically processes signals received through fitted fieldbus modules and executes the configured control program, while battery-backed memory retains configuration and real-time process data during a supply interruption.

01 DOCUMENTED PRODUCT REFERENCE

Processor architecture	Intel 32-bit superscalar RISC, up to 150 MIPS
Internal CPU cache	16 KB
Static RAM capacity	4 MB, read/write
RAM integrity protection	Error detection and correction
Flash EPROM	4 MB, 32-bit words
Serial EEPROM	16 kbit
Fieldbus module positions	4
Ethernet module positions	2

Manufacturer data summarized for the identified model and stated conditions.

02 TECHNICAL DATA

Ethernet-module data bus	32 bit; 10 Mbit/s
Processing time per 1000 instructions	Binary / 16-bit arithmetic: <1 ms; fixed point: <2 ms; 32-bit arithmetic: <1.5 ms
Base-unit power consumption	6.3 W maximum, dependent on CPU usage and cycle time
I/O scan cycle	Configurable; dependent on fieldbus-module capabilities
Internal temperature monitoring	Provided
Processor supervision	Watchdog
Memory buffering	Battery backup with battery watchdog

03 APPLICATION AND CONFIGURATION

- PM802F and 3BDH000002R1 marking
- 4 MB base versus complete station
- Power and buffering module selection
- Compatible software installation
- Use the applicable manufacturer safety and installation instructions.

04 OFFICIAL DOCUMENTATION

ABB Freelance V9.2 Product Catalog, 3BDD015188 Rev A

PM 802F technical section: printed pages 40-41; exact 3BDH000002R1 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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