



PRODUCT-DETAILS

3BDH000364R0005

PM 783F CPU Module



General Information

Product ID	3BDH000364R0005
ABB Type Designation	PM 783F Rev. C
EAN	4013614503030
Catalog Description	PM 783F CPU Module

The Central Processing Unit (CPU) module is equipped with a high-performance processor for fast loop cycle times. It comes with on-board 100 Mbit/s Ethernet network connection used for communication between controllers, operator stations and engineering tool. Two serial line interfaces complete the connectivity. One interface can be used for Modbus communication, while the other is used for diagnostics. The CPU has 10 MB of memory of which 2 MB are battery backed up. For demanding applications, eight cyclic and priority driven tasks with adjustable cycle time can be configured, as well as a cyclic PLC type task which runs as fast as possible. The small front panel display shows status and diagnostic information directly at the module. Furthermore you can lock the controller via the keys. This means the controller can be blocked for downloads of application and firmware to enhance security. The status, if the controller is locked or unlocked, is shown on the display. S700 I/O modules can be directly plugged to the CPU module or can be used as remote I/O via PROFIBUS. A maximum of eight modules can be connected to one controller. 3rd party I/O's can be connected via a MODBUS ASCII / RTU, IEC 60870-5-101 Telecontrol protocol or via PROFIBUS. The CPU and the local S700 I/O modules communicate very fast. I/O scan times of 2 ms are possible. Short circuit and line break detection is realized for each channel.

Additional Information

Medium Description	The PM 783F is the smallest CPU in the Freelance controller family. Depending on the application, it is sufficient for around 300 I/O signals. Needs external 24 VDC power supply. For details on compatibility, refer to the Freelance AC 700F Compatibility Matrix (2PAA106303D0002_C). Use with Terminal Base TB 711F and Battery TA521.
Product Type	Central_Unit

Ordering

HS Code	853710 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES; Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 8535 or 8536, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 8517; For a voltage not exceeding 1000 V
Customs Tariff Number	85371091

Dimensions

Product Net Depth / Length	76 mm
Product Net Height	54 mm
Product Net Width	68 mm
Product Net Weight	0.15 kg

Environmental

RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
Number of Batteries	0
SCIP	94899990-3e22-47e3-99c9-50d4a0524d6b United States

Categories

Control System Products → Control & Communication → AC 700F → AC 700F - Processor Modules → PM 783F CPU Module

