1SAP150000R0100

Industrial automation components

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Manufacturer	Abb
Catalog number	1sap150000r0100
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Manufacturer	ABB
Part Number	1SAP150000R0100
Product Type	CPU Module
Product Family	AC500
User Program Memory	2,048 kB
Data Memory	2,560 kB
Power Supply	24V DC
Current Consumption	0.2 A
Serial Ports	2x RS232/RS485
Fieldbus Plug	1x FBP
SD Card Slot	1x
LCD Display	1 line

Description

The ABB 1SAP150000R0100, also known as the PM590, is a central processing unit (CPU) module designed for the AC500 series programmable logic controllers (PLCs). Manufactured by ABB, this module serves as the core processing unit, executing user programs and managing communication with I/O modules and field devices. It offers 2,048 kB of user program memory and 2,560 kB of data memory, ensuring robust application handling. The module operates on a 24V DC power supply, consuming approximately 0.2 A. Its compact dimensions are 67.5 mm in width, 76 mm in height, and 62 mm in depth, with a net weight

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of 0.15 kg. The PM590 features two configurable serial ports supporting Modbus RTU, Modbus ASCII, and CS31 protocols, facilitating flexible connectivity. Additionally, it includes a Fieldbus Plug (FBP) port for adding communication modules such as PROFIBUS, CANopen, or DeviceNet. An integrated LCD display and eight function keys enable local diagnostics and configuration. The module also supports an SD card slot for program and data backup. Designed for mid-range automation applications, the PM590 is suitable for machine control, process automation, and building management systems. Its compact footprint makes it ideal for space-constrained control cabinets.