

Schneider Series Service Manual

171CBU98090

1. Description

The 171CBU98090 automation platform from Schneider Electric's Modicon Momentum series is designed for effective communication and control in various industrial applications. It is built with a robust I/O capacity of 2048 inputs and 2048 outputs, making it capable of handling extensive operations seamlessly.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Automation Platform PLC
Product	Line Modicon Momentum
Part	Number 171CBU98090
EAN	3595864171395
Weight	2.06 lbs (0.94 kg)
Environmental	Protection IP20 rated
Certifications	CE, FM, C-Tick, UL 508, CSA C22.2 No 142, EN/IEC 61131-2
Mounting	35 mm symmetrical DIN rail
I/O	Capacity 2048 inputs/2048 outputs
Memory	3584 kB program memory
Addressing	1-247 Modbus, Unique IEEE global address Modbus TCP
Topology	Multidrop Modbus, Star Modbus TCP
Communication	Protocols Modbus, Modbus TCP
Clock	Frequency 333 MHz
Supply	Voltage 4.75-5.25 V
I/O	Bus Supports Modicon STB I/O
Communication	Ports RS232/485, Ethernet, USB

3. Product Information

The 171CBU98090 automation platform from Schneider Electric's Modicon Momentum series is designed for effective communication and control in various industrial applications. It is built with a robust I/O capacity of 2048 inputs and 2048 outputs, making it capable of handling extensive operations seamlessly.

Technical specifications for 171CBU98090

Manufacturer Schneider Electric

Product Type Automation Platform PLC

Product Line Modicon Momentum

Part Number 171CBU98090

EAN 3595864171395

Weight 2.06 lbs (0.94 kg)

Environmental Protection IP20 rated

Certifications CE, FM, C-Tick, UL 508, CSA C22.2 No 142, EN/IEC 61131-2

Mounting 35 mm symmetrical DIN rail

I/O Capacity 2048 inputs/2048 outputs

Memory 3584 kB program memory

Addressing 1-247 Modbus, Unique IEEE global address Modbus TCP

Topology Multidrop Modbus, Star Modbus TCP

Communication Protocols Modbus, Modbus TCP

Clock Frequency 333 MHz

Supply Voltage 4.75-5.25 V

I/O Bus Supports Modicon STB I/O

Communication Ports RS232/485, Ethernet, USB

The Schneider Electric 171CBU98090 is an advanced PLC designed specifically within the Modicon Momentum series. This unit is protected with an IP20 rating, providing a suitable level of defense against environmental factors. The device boasts various certifications including CE, FM, C-Tick, UL 508, and CSA C22.2 No 142, along with compliance to EN/IEC 61131-2 standards, which guarantees its reliability and safety for industrial use.

It operates with impressive I/O capacity, allowing for 2048 inputs and 2048 outputs, supporting a wide array of automation tasks. Users can leverage up to 3584 kB of program memory for their applications, enabling complex sequences and control processes. The module's addressing allows for 1-247 Modbus addressing alongside a unique IEEE global address within the Modbus TCP framework. It supports diverse network topologies including multidrop Modbus and star Modbus TCP configurations.

Communication capabilities are extensive, featuring protocols such as Modbus and Modbus TCP. With a clock frequency of 333 MHz, performance remains swift and efficient. The 171CBU98090 is designed to mount easily on a 35 mm symmetrical DIN rail, aligning with standard installation practices. Additionally, the unit has multiple communication ports, including RS232/485, Ethernet, and USB, facilitating versatile connectivity. It has a compact dimension of 144 x 53.47 x 60.6 mm and a light weight of 0.163 kg, ensuring that it occupies minimal space while offering robust functionality.