

Schneider Series Service Manual

140MMB10200

1. Description

The Schneider Electric 140MMB10200 is a multi-axis motion controller designed to operate within the Modicon Quantum series. This versatile controller supports a wide supply voltage range from 100 to 240 Volts AC or 24 Volts DC, catering to various requirements.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Multi-Axis Motion Controller
Product	Line Modicon Quantum
Part	Number 140MMB10200
Rated	Supply Voltage 100 to 240 Volts AC or 24 Volts DC
Built-in	Communication Networks Serial link, SERCOS III, Modbus TCP, EtherNet/IP, and USB Mini-B programming port
Optional	Communication Networks CANopen and EtherNet
Protection	Rating IP20
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Humidity	Tolerance 10% to 95% relative humidity (without condensation)
External	Connection Type Screw-type terminal block
Permissible	Supply Voltage Range 96 to 264 Volts AC
Storage	Temperature -25 to 70°C (in a non-condensing environment)
Operating	Altitude 6,561.68 feet (2,000 meters) above sea level
Supply	Frequency 50 to 60 Hertz

3. Product Information

The Schneider Electric 140MMB10200 is a multi-axis motion controller designed to operate within the Modicon Quantum series. This versatile controller supports a wide supply voltage range from 100 to 240 Volts AC or 24 Volts DC, catering to various requirements.

Technical specifications for 140MMB10200

Manufacturer Schneider Electric

Product Type Multi-Axis Motion Controller

Product Line Modicon Quantum

Part Number 140MMB10200

Rated Supply Voltage 100 to 240 Volts AC or 24 Volts DC

Built-in Communication Networks Serial link, SERCOS III, Modbus TCP, EtherNet/IP, and USB Mini-B programming port

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Ambient Operating Temperature 0 to 60°C (in a non-condensing environment)

Humidity Tolerance 10% to 95% relative humidity (without condensation)

External Connection Type Screw-type terminal block

Permissible Supply Voltage Range 96 to 264 Volts AC

Storage Temperature -25 to 70°C (in a non-condensing environment)

Operating Altitude 6,561.68 feet (2,000 meters) above sea level

Supply Frequency 50 to 60 Hertz

Description

The 140MMB10200 multi-axis motion controller from Schneider Electric is an essential component within the Modicon Quantum series designed for complex motion control applications. This controller accepts a rated supply voltage ranging from 100 to 240 Volts AC or a steady 24 Volts DC, accommodating a variety of power supply configurations. The unit's permissible voltage supply range extends from 96 to 264 Volts AC, ensuring flexibility in diverse environments.

Engineered for communication versatility, the device is equipped with built-in networks including Serial link, SERCOS III, Modbus TCP, and EtherNet/IP, in addition to a USB Mini-B programming port for enhanced connectivity. For additional networking capabilities, optional connectivity through CANopen and EtherNet protocols is available. This multifaceted communication ability supports integration with various systems, making the 140MMB10200 suitable for intricate setups.

The controller maintains a weight of 23 pounds (10.43 kilograms) and is designed for rugged performance, with an IP20 protection rating safeguarding it from dust and incidental contact. Its operational temperature range spans from 0 to 60°C in non-condensing environments, while storage conditions can reach as low as -25°C and go up to 70°C. The unit also tolerates elevated humidity levels, functioning effectively within 10% to 95% relative humidity without condensation.

Furthermore, it is operational at high altitudes, up to 6,561.68 feet (2,000 meters) above sea level, emphasizing its reliability in various installation scenarios. The supply frequency for this controller is compatible with both 50 and 60 Hertz systems, making it adaptable to different electrical standards.