Product data sheet

Specifications

Modicon MC80, Controller, 8 DI, 8 DO, 4 AI

BMKC8020300

ⓘ Discontinued on: Dec 31, 2019

ⓘ **Discontinued**

Main

Range Of Product	Modicon MC80
Product Or Component Type	Processor module
Product Specific Application	Thermo solar - parabolic through without encoder

Complementary

Product Compatibility	BMXFTB20... terminal block discrete I/O module BMXFTB20... terminal block analog input module
[Us] Rated Supply Voltage	24 V - 15...20 % DC
Current Consumption	<= 700 mA
Isolation Voltage	1500 V DC
Memory Description	Internal RAM 3840 kB Internal RAM 128 kB data Internal RAM 3590 kB program constants and symbols
Execution Time Per Instruction	0.06 µs Boolean 0.08 µs mixed
Realtime Clock	With
Function Available	Memory retention without battery
Communication Port Protocol	1 non isolated serial link, connector type: RJ45, communication port: RS485/RS232, transmission rate: 0.3...19.2 kbit/s for connecting 247 devices 1 CANopen, connector type: SUB-D 9, transmission rate: 20 kbit/s...1 Mbit/s for connecting 16 devices 2 Ethernet, connector type: RJ45, transmission rate: 10/100 Mbit/s
Integrated Connection Type	USB port: mini B USB connector
Port Ethernet	10BASE-T/100BASE-TX
Bus Length	0…10 m serial link non isolated 0…15 m serial link non isolated 0…1000 m serial link isolated with external isolation tap 0…20 m, transmission rate: 1 Mbit/s, communication port: CANopen 0…2500 m, transmission rate: 20 kbit/s, communication port: CANopen 0…100 m, communication port: Ethernet
Communication Service	Read/write variables for Modbus Diagnostics for Modbus Send/receive character string for character mode Process Data Object (PDO) for CANopen Service Data Object (SDO) for CANopen FDR client for Ethernet SNMP for Ethernet RSTP support for Ethernet
Discrete Input Type	Type 3
Discrete Input Current	5 mA

Discrete Input Voltage	19...30 V DC
Discrete Output Number	8 positive
Discrete Output Current	500 mA per output
Discrete Output Voltage	19...30 V DC
Protection Type	Overload protection for output Short-circuit protection for output
Analogue Input Number	4
Analogue Input Type	Current, input range: - 20...20 mA Voltage, input range: - 10...10 V
Fast Read Cycle Time For Analogue Input	1.3 ms + 1.3 ms x number of channels used
Nominal Read Cycle Time For Analogue Input	6.5 ms for 4 channels
Analogue Input Resolution	16 bits

Environment

Ambient Air Temperature For Operation	-25…70 °C
Ambient Air Temperature For Storage	-40…85 °C
Relative Humidity	0…95 %
Vibration Resistance	3 gn
Marking	CE
Standards	IEC 61131-2 CSA C22.2 No 213 Class I Division 2 Group B UL 508 CSA C22.2 No 213 Class I Division 2 Group C CSA C22.2 No 213 Class I Division 2 Group A CSA C22.2 No 213 Class I Division 2 Group D CSA C22.2 No 142
Product Certifications	RCM

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	12.2 cm
Package 1 Width	14.1 cm
Package 1 Length	27.1 cm
Package 1 Weight	1.9 kg

Sustainability

Green Premium^TM label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

RoHS/REACh

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   Yes

Certifications & Standards

|	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Dimensions Drawings

Dimensions

mm / in.

220 / 8.66

100 / 3.94

110 / 4.32

105 / 4.12
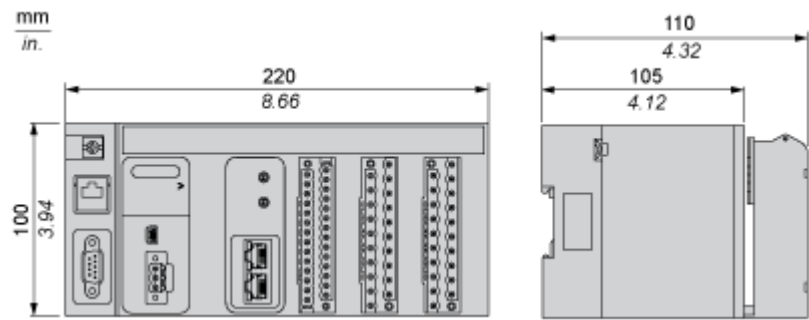
Mounting and Clearance

Mounting on DIN Rails
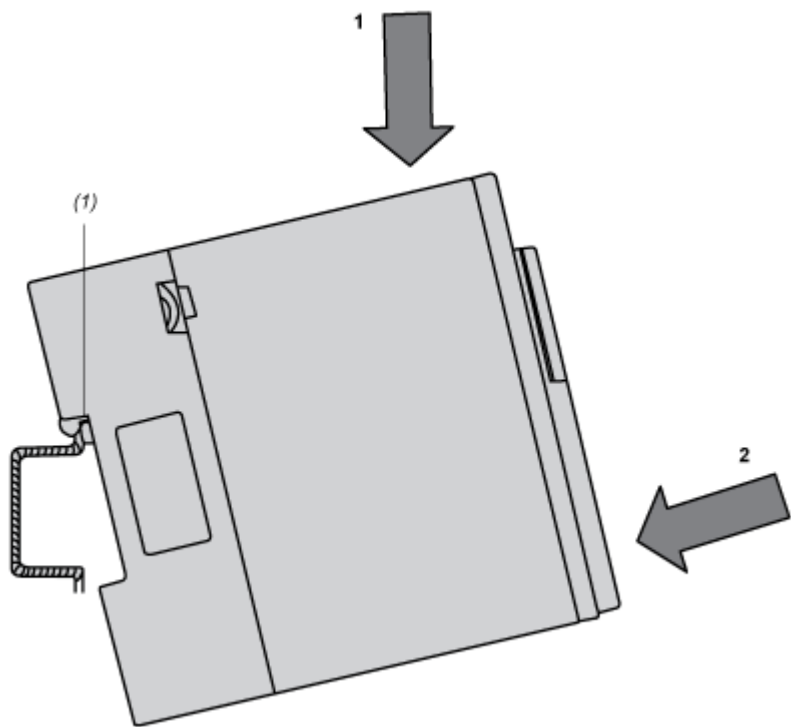
Mounting on Panels

mm
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in.

139
5.47

87
3.43
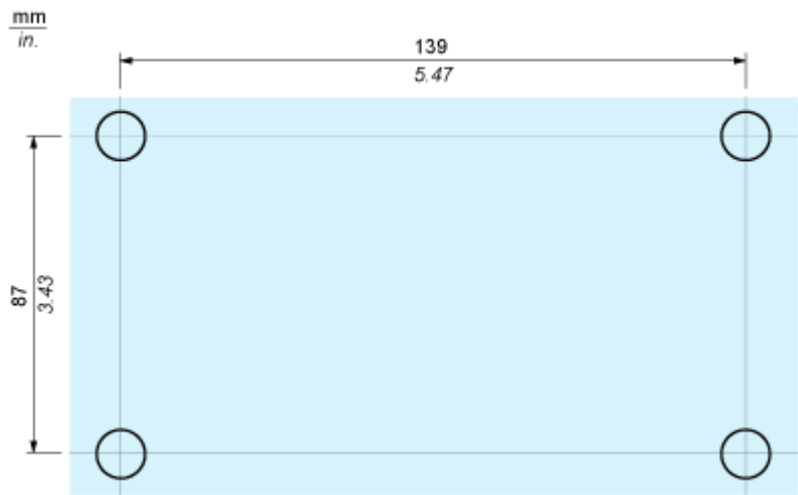
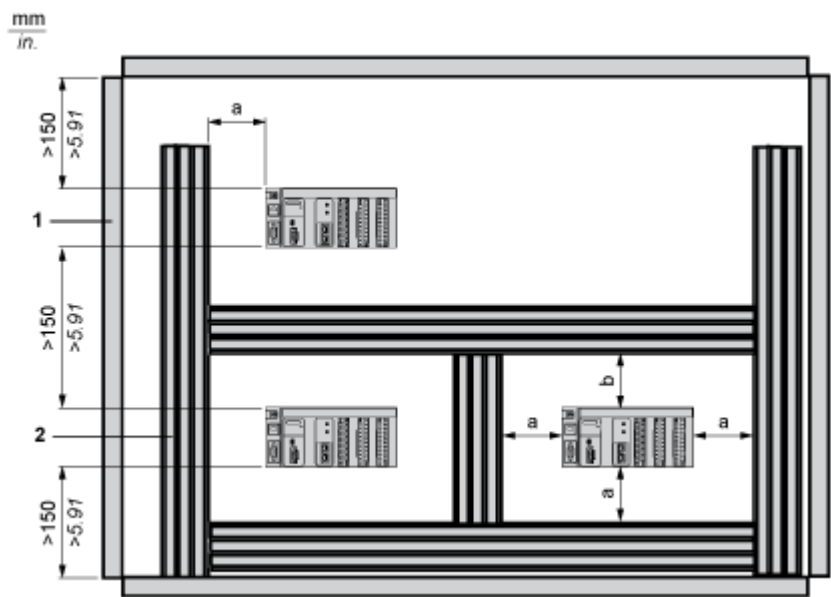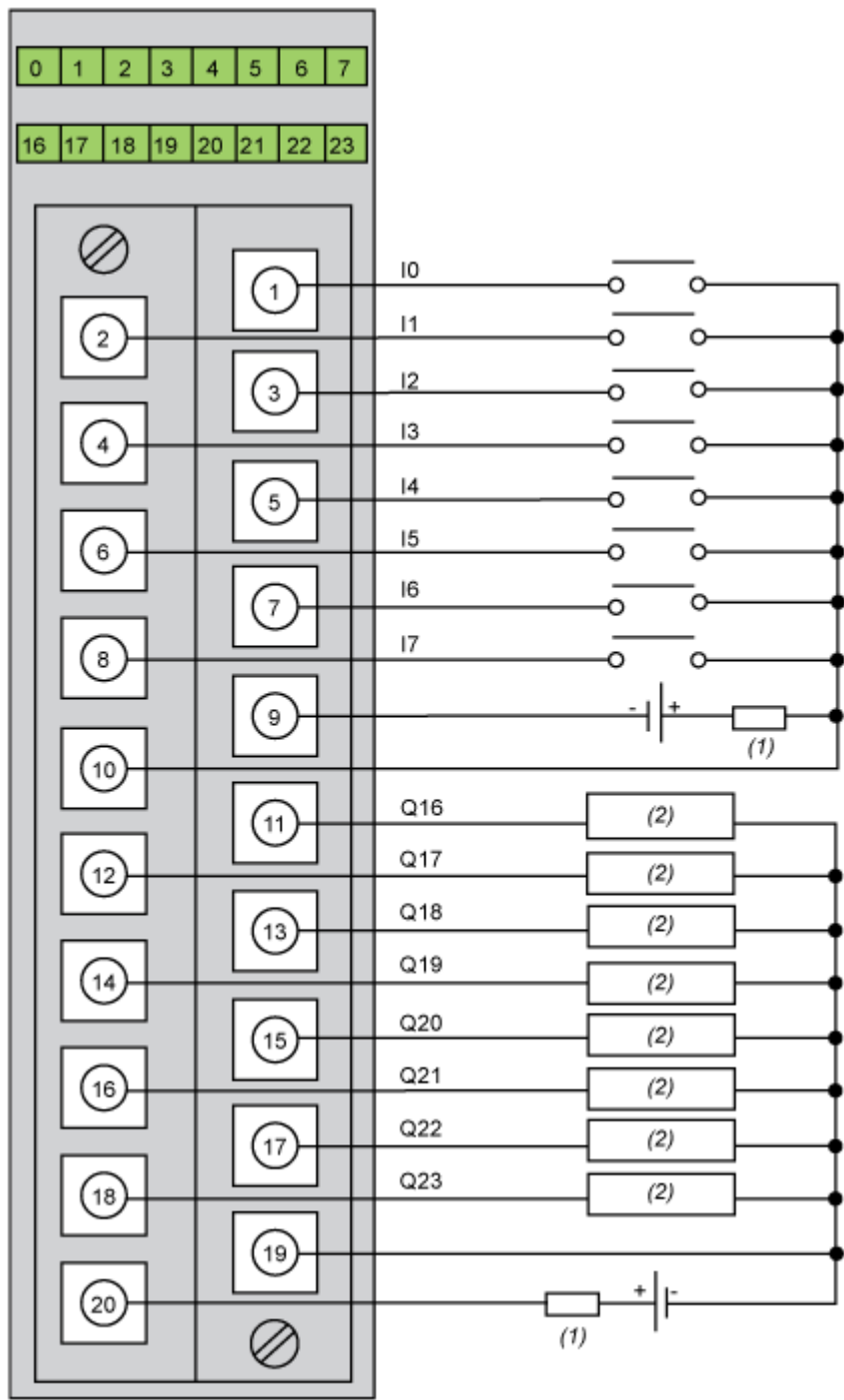**Clearance**

a :   Greater than or equal to 60 mm (2.36 inch)

b :   Greater than or equal to 80 mm (3.15 inch)

1 :   Installation or casing

2 :   Wiring duct or tray

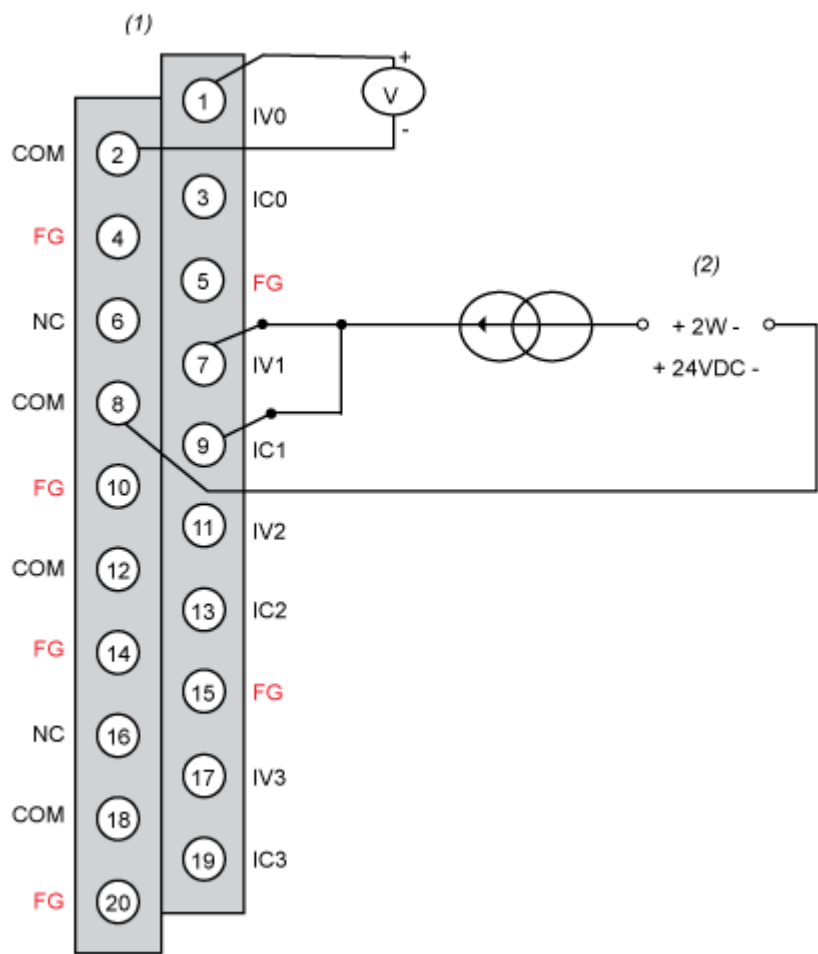## Connections and Schema

Discrete I/O Connection

(1) :   Fuse

(2) :   Pre-actuator

Power supply: 24 Vdc
Input fuse: fast blow fuse of 0.5 A
Output fuse:fast blow fuse of 6.3 A

Analog Input Connection

(1) :   Cabling view

(2) :   Loopsupply

IVx +:   Pole input for channel x

COM 0Vx: Pole input for channel x

ICx: Current reading resistor + input

FG: Functional ground