# Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



# controller M200 40 IO transistor Source

TM200C40T

# Main

Range of product	Easy Modicon M200
Product or component type	Logic controller
[Us] rated supply voltage	24 V DC
Discrete I/O number	40
Discrete input number	1215: 4 fast input 10, 11, 16, 17: 4 high speed input 18123: 16 regular input
Discrete output number	Q0Q1: 2 fast output (PLS/PWM/PTO mode) Q2Q15: 14 transistor output
Discrete input voltage	24 V
Discrete input voltage type	DC
Discrete input current	7 mA for input
Discrete input logic	Sink or source (positive/negative) type 1 conforming to IEC 61131-2
Discrete output voltage	24 V DC
Discrete output current	0.5 A
Discrete output type	Transistor
Discrete output logic	Positive logic (source)
Power consumption in W	18 W at 24 V DC (with max I/O)

# Complementary

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Maximum number of I/O expansion module	4 with 64 discrete output(s) for relay output 4 with 144 discrete output(s) for transistor output	
Supply voltage limits	20.428.8 V	
Inrush current	35 A	
Voltage state 1 guaranteed	>= 15 V for input	
Voltage state 0 guaranteed	<= 5 V for input	
Input impedance	3.3 kOhm for discrete input	
Response time  35 µs turn-on, I2I5 terminal(s) for input  100 µs turn-off, I2I5 terminal(s) for input  5 µs turn-on, I0, I1, I6, I7 terminal(s) for fast input  5 µs turn-off, I0, I1, I6, I7 terminal(s) for fast input  35 µs turn-on, I8I13 terminal(s) for input		

100 µs turn-off, I8...I13 terminal(s) for input 55 µs turn-on, I14...I23 terminal(s) for input 125 µs turn-off, I14...I23 terminal(s) for input 1 ms turn-on, Q0...Q15 terminal(s) for output 1 ms turn-off, Q0...Q15 terminal(s) for output

Life Is On Schneider

Configurable filtering time	0 ms for input 3 ms for input	
	12 ms for input	
Maximum current per output	2 A at COM 0	
common	2 A at COM 1 4 A at COM 2	
Output frequency		
	100 kHz for fast output (PWM/PLS mode) at Q0Q1	
Maximum leakage current	0.1 mA for transistor output	
Maximum voltage drop	<1 V	
Maximum tungsten load	<12 W for output and fast output	
Protection type	Overload and short-circuit protection at 2 A	
Reset time	1 s automatic reset	
Memory capacity	512 byte internal flash for backup of programs	
Data storage equipment	32 GB micro SD card (optional)	
Battery type	BR2032 Li-CFx (Lithium-Carbon Monofluoride), battery life: 5 year(s)	
Backup time	3 years at 25 °C (by interruption of power supply)	
Execution time for 1 KInstruction	0.3 ms for event and periodic task	
Execution time per instruction	0.2 μs Boolean	
Exct time for event task	60 µs response time	
Clock drift	<= 90 s/month at 25 °C	
Regulation loop	Adjustable PID regulator up to 14 simultaneous loops	
Positioning functions	PWM/PLS 2 channel(s) at 100 kHz	
Control signal type	Quadrature (x1, x2, x4) at 100 kHz for fast input (HSC mode)	
	Pulse/direction at 100 kHz for fast input (HSC mode)	
	Single phase at 100 kHz for fast input (HSC mode)	
	Single phase at 100 kHz for fast input (HSC mode) CW/CCW at 100 kHz for fast input (HSC mode)	
Counting input number		
Counting input number Integrated connection type	CW/CCW at 100 kHz for fast input (HSC mode)	
	CW/CCW at 100 kHz for fast input (HSC mode)  4 fast input (HSC mode) at 100 kHz 32 bits  USB port with mini B USB 2.0 connector Non isolated serial link serial 1 with terminal block connector and RS485 interface	
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Integrated connection type  Transmission rate	CW/CCW at 100 kHz for fast input (HSC mode)  4 fast input (HSC mode) at 100 kHz 32 bits  USB port with mini B USB 2.0 connector  Non isolated serial link serial 1 with terminal block connector and RS485 interface  Non isolated serial link serial 2 with terminal block connector and RS232/RS485 interface  Isolated serial link serial 2 with terminal block connector and RS485 interface  1.2115.2 kbit/s (115.2 kbit/s by default) for bus length of 15 m for RS485  1.2115.2 kbit/s (115.2 kbit/s by default) for bus length of 3 m for RS232  12 Mbit/s for USB	
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Integrated connection type  Transmission rate  Communication port protocol  Local signalling	CW/CCW at 100 kHz for fast input (HSC mode)  4 fast input (HSC mode) at 100 kHz 32 bits  USB port with mini B USB 2.0 connector Non isolated serial link serial 1 with terminal block connector and RS485 interface Non isolated serial link serial 2 with terminal block connector and RS232/RS485 interface Isolated serial link serial 2 with terminal block connector and RS485 interface  1.2115.2 kbit/s (115.2 kbit/s by default) for bus length of 15 m for RS485 1.2115.2 kbit/s (115.2 kbit/s by default) for bus length of 3 m for RS232 12 Mbit/s for USB  USB port: USB - SoMachine-Network Non isolated serial link: Modbus master/slave - RTU/ASCII or SoMachine-Network  1 LED (green) for PWR 1 LED (green) for RUN 1 LED (green) for SD card access (SD) 1 LED (green) for SD card access (SD) 1 LED (green) for SL1 1 LED per channel (green) for I/O state  Mini B USB 2.0 connectorfor a programming terminal removable screw terminal blockfor inputs	
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Integrated connection type  Transmission rate  Communication port protocol  Local signalling	CW/CCW at 100 kHz for fast input (HSC mode)  4 fast input (HSC mode) at 100 kHz 32 bits  USB port with mini B USB 2.0 connector Non isolated serial link serial 1 with terminal block connector and RS485 interface Non isolated serial link serial 2 with terminal block connector and RS232/RS485 interface Isolated serial link serial 2 with terminal block connector and RS485 interface  1.2115.2 kbit/s (115.2 kbit/s by default) for bus length of 15 m for RS485 1.2115.2 kbit/s (115.2 kbit/s by default) for bus length of 3 m for RS232  12 Mbit/s for USB  USB port: USB - SoMachine-Network Non isolated serial link: Modbus master/slave - RTU/ASCII or SoMachine-Network  1 LED (green) for PWR 1 LED (green) for RUN 1 LED (green) for SD card access (SD) 1 LED (red) for BAT 1 LED (green) for SL1 1 LED (green) for SL1 1 LED per channel (green) for I/O state  Mini B USB 2.0 connectorfor a programming terminal removable screw terminal blockfor inputs removable screw terminal blockfor outputs removable screw terminal blockfor outputs removable screw terminal block, 3 terminal(s) for connecting the 24 V DC power supply	
Integrated connection type  Transmission rate  Communication port protocol  Local signalling  Electrical connection	CW/CCW at 100 kHz for fast input (HSC mode)  4 fast input (HSC mode) at 100 kHz 32 bits  USB port with mini B USB 2.0 connector Non isolated serial link serial 1 with terminal block connector and RS485 interface Non isolated serial link serial 2 with terminal block connector and RS232/RS485 interface Isolated serial link serial 2 with terminal block connector and RS485 interface  1.2115.2 kbit/s (115.2 kbit/s by default) for bus length of 15 m for RS485 1.2115.2 kbit/s (115.2 kbit/s by default) for bus length of 3 m for RS232  12 Mbit/s for USB  USB port: USB - SoMachine-Network Non isolated serial link: Modbus master/slave - RTU/ASCII or SoMachine-Network  1 LED (green) for PWR 1 LED (green) for RUN 1 LED (green) for SD card access (SD) 1 LED (green) for SL1 1 LED (green) for SL1 1 LED per channel (green) for I/O state  Mini B USB 2.0 connectorfor a programming terminal removable screw terminal blockfor outputs removable screw terminal blockfor outputs removable screw terminal block, 3 terminal(s) for connecting the 24 V DC power supply removable screw terminal block, 4 terminal(s) for connecting the serial link1	
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Non-insulated between inputs
Between input and internal logic at 500 V AC
Between fast input and internal logic at 500 V AC
Between input groups at 500 V AC
Between output and internal logic at 500 V AC
Between output groups at 500 V AC
Between supply and internal logic at 500 V DC
CE
Top hat type TH35-15 rail conforming to IEC 60715
Top hat type TH35-7.5 plate or panel with fixing kit conforming to IEC 60715
90 mm
70 mm
175 mm

# **Environment**

IP degree of protection	IP20 with protective cover in place
Standards	IEC 61131-2 IEC 61010-2-201
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61000-4-2
	Electrostatic discharge immunity test - test level: 6 kV (contact discharge) conforming to IEC 61000-4-2
	Susceptibility to electromagnetic fields - test level: 10 V/m (80 MHz3 GHz) conforming to IEC 61000-4-3
	Magnetic field at power frequency - test level: 30 A/m conforming to IEC 61000-4-8 Electrical fast transient/burst immunity test - test level: 2 kV (power lines) conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 1 kV (serial link) conforming to IEC 61000-4-4
	1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-5
	1.2/50 µs shock waves immunity test - test level: 2 kV (power lines (AC)) conforming to IEC 61000-4-5
	1.2/50 µs shock waves immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-5
	1.2/50 μs shock waves immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-5
	$1.2/50~\mu s$ shock waves immunity test - test level: 1 kV (shielded cable) conforming to IEC 61000-4-5
	1.2/50 µs shock waves immunity test - test level: 0.5 kV (power lines (DC)) conforming to IEC 61000-4-5
	1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5
	Conducted RF disturbances - test level: 10 V (0.1580 MHz) conforming to IEC 61000-4-6
	Conducted emission - test level: 79 dBµV/m QP/66 dBµV/m AV (power lines (AC)) conforming to IEC 55011
	Conducted emission - test level: 73 dBµV/m QP/60 dBµV/m AV (power lines (AC)) conforming to IEC 55011
	Radiated emission - test level: 40 dBµV/m QP class A (10 m) conforming to IEC 55011
	Radiated emission - test level: 47 dBµV/m QP class A (10 m) conforming to IEC 55011
Shock resistance	15 gn for 11 ms
	30 gn for 6 ms
Immunity to microbreaks	2 ms
Vibration resistance	3.5 mm at 58.4 Hz on symmetrical rail
	1 gn at 8.4150 Hz on symmetrical rail 3.5 mm at 58.7 Hz on panel mounting
	2 gn at 8.7150 Hz on panel mounting

Relative humidity	1095 %, without condensation (in operation) 1095 %, without condensation (in storage)	
Ambient air temperature for operation	055 °C (horizontal installation)	
Ambient air temperature for storage	-2570 °C	
pollution degree	<= 2	
Operating altitude	02000 m	
Storage altitude	03000 m	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9 cm
Package 1 Width	18.3 cm
Package 1 Length	13.6 cm
Package 1 Weight	765.5 g
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	9686 g
Unit Type of Package 3	P12
Number of Units in Package 3	288
Package 3 Height	95 cm
Package 3 Width	80 cm
Package 3 Length	120 cm
Package 3 Weight	241464 g



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	1392
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration

#### **Use Again**

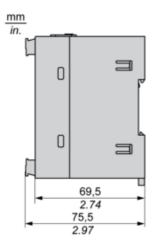
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

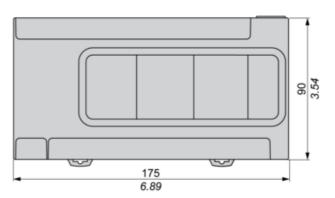
# TM200C40T

# **Dimensions Drawings**

# **Dimensions Drawings**

#### **Dimensions**

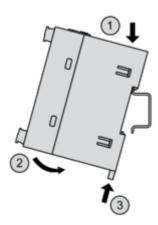




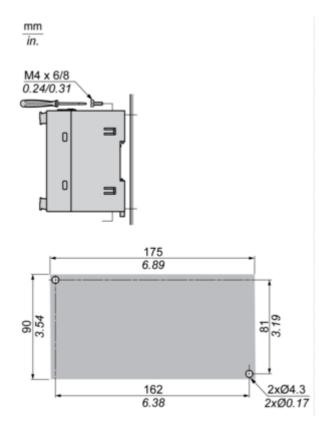
Mounting and Clearance

# **Mounting and Clearance**

# Mounting on a Rail

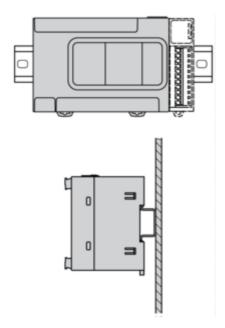


# **Direct Mounting on a Panel Surface**

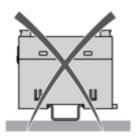


# **Mounting Position**

# TM200C40T



# TM200C40T

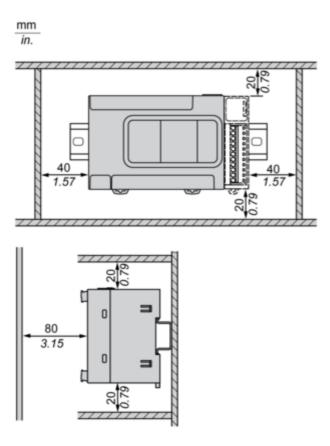




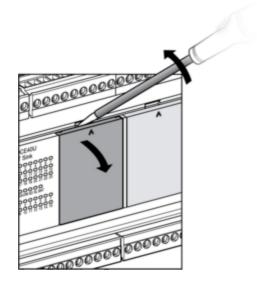




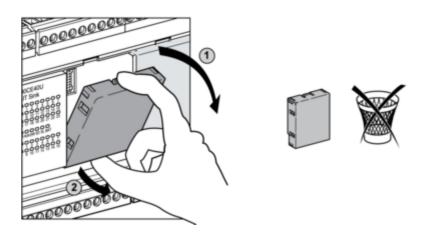
Clearance

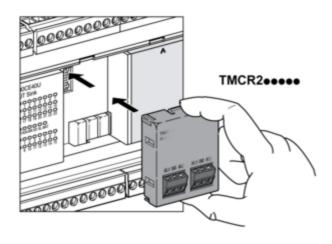


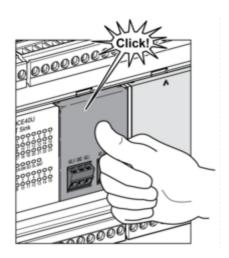
#### TMCR2•••Installation



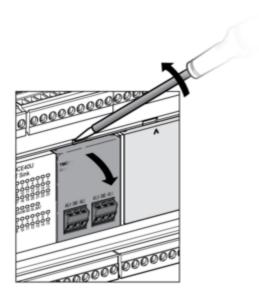
# TM200C40T

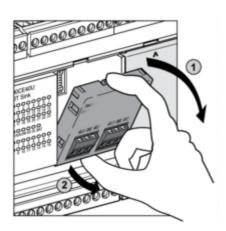


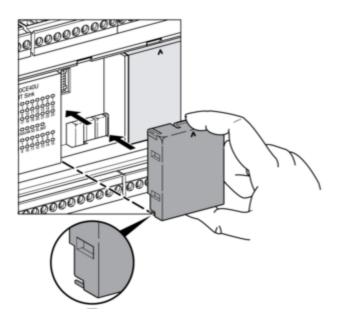




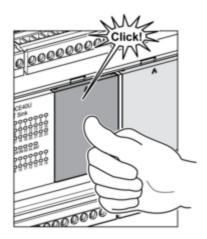
TMCR2 ••• De-Installation







# TM200C40T

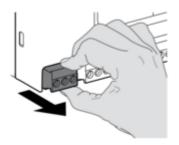


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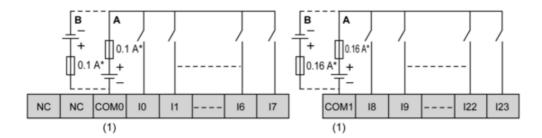
#### Connections and Schema

#### Wiring Diagram / Connections Schema

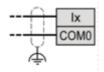
#### **DC Power Supply**



#### Digital Inputs (Sink or Source)

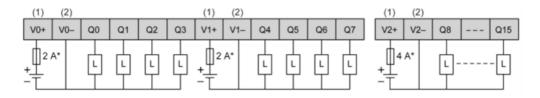


\*\* 10...17



- (\*) Type T fuse
- (\*\*) Fast inputs
- A Sink wiring (positive logic)
- B Source wiring (negative logic)
- (1) The COM0 and COM1 terminals are **not** connected internally.

#### **Regular and Fast Transistor Output**



\*\* Q0...Q3

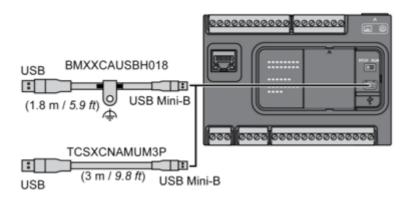


- (\*) Type T fuse
- (\*\*) Fast outputs
- (1) The V0+, V1+ and V2+ terminals are not connected internally.

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(2) The V0-, V1- and V2- terminals are not connected internally.

# **USB Mini-B Connection**



#### **SL1 Connection**

