Specifications



controller M200 40 IO relay



TM200C40R

Main

Range Of Product	Easy Modicon M200
Product Or Component Type	Logic controller
[Us] Rated Supply Voltage	100240 V AC
Discrete I/O Number	40
Discrete Input Number	I2I5: 4 fast input I0, I1, I6, I7: 4 high speed input I8I23: 16 regular input
Discrete Output Number	16 relay
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 220 V AC
Discrete Output Current	2 A
Discrete Output Type	Relay normally open
Power Consumption In Va	5969 VA at 100240 V AC (with max I/O)

Complementary

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Maximum Number Of I/O Expansion Module	4 with 128 discrete output(s) for transistor output 4 with 80 discrete output(s) for relay output	
Supply Voltage Limits	85264 V	
Network Frequency	50/60 Hz	
Inrush Current	50 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	5 μs turn-off, I0, I1, I6, I7 terminal(s) for high speed input 5 μs turn-on, I0, I1, I6, I7 terminal(s) for high speed input 100 μs turn-off, I2I5 terminal(s) for fast input 35 μs turn-on, I2I5 terminal(s) for fast input	

100 μs turn-off, I8...I13 terminal(s) for regular input 35 μs turn-on, I8...I13 terminal(s) for regular input 10 ms turn-off, Q0...Q15 terminal(s) for relay output 10 ms turn-on, Q0...Q15 terminal(s) for relay output 125 μs turn-off, I14...I23 terminal(s) for regular input 55 μs turn-on, I14...I23 terminal(s) for regular input

Configurable Filtering Time	0 ms for input
	3 ms for input 12 ms for input
Output Voltage Limits	30 V DC
	250 V AC
Maximum Current Per Output	4 A at COM 2
Common	4 A at COM 0 4 A at COM 1
	4 A at COM 3
Electrical Durability	100000 cycles AC-12, 240 V, 480 VA, resistive 100000 cycles DC-12, 24 V, 48 W, resistive
Switching Frequency	0.1 Hz with maximum load
Mechanical Durability	20000000 cycles for relay output
Minimum Load	10 mA at 5 V DC for relay output
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
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)
	CW/CCW at 100 kHz for fast input (HSC mode)
Counting Input Number	4 fast input (HSC mode) at 100 kHz 32 bits
Integrated Connection Type	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
Transmission Rate	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
	12 Mibito for GGB
Communication Port Protocol	USB port: USB - SoMachine-Network Non isolated serial link: Modbus master/slave - RTU/ASCII or SoMachine-Network
Local Signalling	1 LED (green) for PWR
	1 LED (green) for RUN
	1 LED (red) for module error (ERR) 1 LED (green) for SD card access (SD)
	1 LED (green) for BAT
	1 LED (green) for SL1
<u></u>	1 LED per channel (green) for I/O state
Electrical Connection	Mini B USB 2.0 connectorfor a programming terminal removable screw terminal blockfor inputs
	removable screw terminal blockfor outputs
	removable screw terminal block, 4 terminal(s) for connecting the serial link1
	removable screw terminal block, 3 terminal(s) for connecting the 100-240 V AC power supply
Maximum Cable Distance	Unshielded cable: <50 m for input
Between Devices	Shielded cable: <10 m for fast input
	Shielded cable: <10 m for high speed input Unshielded cable: <150 m for output
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Insulation Non-insulated between inputs Between output and internal logic at 1780 V AC Between output and internal logic at 1780 V AC Between input and internal logic at 1780 V AC Between input and internal logic at 1780 V AC Between input and internal logic at 1780 V AC Between input and internal logic at 1780 V AC Between input and internal logic at 1780 V AC Between input groups at 500 V A		
Between output groups at 1780 V AC Between input and internal logic at 500 V AC Between input and internal logic at 500 V AC Between input and internal logic at 500 V AC Between input groups at 500	Insulation	Non-insulated between inputs
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Between fast input and internal logic at 500 V AC Between input groups at 500 V AC Between input gr		
Sensor Power Supply 24 V DC at 300 mA supplied by the controller Marking CE Mounting Support Top hat type TH35-7.5 plate or panel with fixing kit conforming to IEC 60715 Top hat type TH35-7.5 plate or panel with fixing kit conforming to IEC 60715 Height 90 mm Pepth 70 mm Width 175 mm Net Weight 0.504 kg Environment IP20 with protective cover in place Product Certifications IEC 61010-2.201 IEC 61000-4.2 Sincephibility Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61000-4.2 Suscephibility be electronagnetic fields - test level: 10 V/m (80 MHz3 GHz.) conforming to IEC 61000-4.2 Suscephibility be electronagnetic fields - test level: 2 kV (cover lines) conforming to IEC 61000-4.4 Electrical fast transient/burst immunity test - test level: 2 kV (cover lines) conforming to IEC 61000-4.4 Electrical fast transient/burst immunity test - test level: 2 kV (cover lines) conforming to IEC 61000-4.4 Electrical fast transient/burst immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.4 Electrical fast transient/burst immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.4 Electrical fast transient/burst immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.4 Electrical fast transient/burst immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.5 1.250 ps shock waves immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4.5 1.250 ps shock waves immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.5 1.250 ps shock waves immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.5 1.250 ps shock waves immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.5 1.250 ps shock waves immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.5 1.250 ps shock waves immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.5 1.250 ps shock waves immunity test - test level: 1 kV (ur) conforming to IEC 61000-4.5 1.250 ps shock waves immunity test - test level: 1 kV (ur) conforming to IEC 6100		
Sensor Power Supply 24 V DC at 300 mA supplied by the controller Marking CE Mounting Support 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 Height 90 mm Depth 70 mm Width 175 mm Net Weight 0.504 kg Environment Ip Degree Of Protection IP20 with protective cover in place Product Certifications IACS E10 cUtus RCM CSA Standards IEC 6100-4-2 Electromagnetic Compatibility Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 6100-4-2 Succeptibility experiments of Electrostatic discharge immunity test - test level: 10 V/m (80 MHz3 GHz) Conforming to IEC 61000-4-2 Succeptibility experiments and power frequency - test level: 2 kV (repower lines) conforming to IEC 61000-4-3 Marking and It power frequency - test level: 30 A/m conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test - test level: 2 kV (repower lines) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 4 kV (vice) output) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (vice) output) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (vice) output) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (vice) output) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vice) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vice) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vice) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vice) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vice) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (· · · · · · · · · · · · · · · · · · ·
Mounting Support 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 Height 90 mm Depth 70 mm Width 175 mm Net Weight 0.594 kg Environment Ip Degree Of Protection IP20 with protective cover in place Product Certifications IACS E10 CULUS RCM CSA Standards IEC 6100-4-2 Electromagnetic Compatibility Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61004-42 Susceptibility oelectromagnetic fields - test level: 10 V/m (80 MHz3 GHz) Conforming to IEC 61000-4-2 Susceptibility oelectromagnetic fields - test level: 2 kV (relay output) conforming to IEC 61000-4-2 Susceptibility oelectromagnetic fields - test level: 2 kV (relay output) conforming to IEC 61000-4-3 Electrostatic start transient/burst immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-4 Electrost fast transient/burst immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-4 Electrost fast transient/burst immunity test - test level: 1 kV (vici) conforming to IEC 61000-4-4 Electrost fast transient/burst immunity test - test level: 1 kV (vici) conforming to IEC 61000-4-4 Electrost fast transient/burst immunity test - test level: 1 kV (relay output) conforming to IEC 61000-4-4 Electrost fast transient/burst immunity test - test level: 1 kV (relay output) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vici) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vici) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vici) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vici) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vici) conforming to IEC 61000-4-5 12/50 µs shock waves immunity test - test level: 1 kV (vici) conforming to IEC 61000-		Between input groups at 500 V AC
Mounting Support 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 Height 90 mm Width 175 mm Net Weight 0.504 kg Environment Ip Degree Of Protection Ip20 with protective cover in place Product Certifications IEC 61010-2-201 IEC 61131-2 Electromagnetic Compatibility Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 1 kV (contact discharge) conforming to IEC 61000-4-3 Magnetic field at power frequency - test level: 2 kV (relay output) conforming to IEC 61000-4-3 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 (power lines) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (power lines) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test	Sensor Power Supply	24 V DC at 300 mA supplied by the controller
Top hat type TH3S-7.5 plate or panel with fixing kit conforming to IEC 60715 Height 90 mm Width 175 mm Net Weight 0.504 kg Environment Ip Degree Of Protection IP20 with protective cover in place Product Certifications IP20 with protective cover in place Electromagnetic Compatibility IEC 61010-2-201 IEC 61131-2 Electromagnetic Compatibility IEC 61000-4-2 Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 0.0 V/m (80 MHz3 GHz) conforming to IEC 61000-4-3 Magnetic field at power frequency - test level: 2 NV (contact discharge) conforming to IEC 61000-4-3 Electrical fist transient/burst immunity test - test level: 2 kV (contact discharge) conforming to IEC 61000-4-4 Electrical fist transient/burst immunity test - test level: 2 kV (power lines) conforming to IEC 61000-4-4 Electrical fist transient/burst immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-4 Electrical fist transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 2 kV (power lines (DC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity te	Marking	CE
Top hat type TH3S-7.5 plate or panel with fixing kit conforming to IEC 60715 Height 90 mm Width 175 mm Net Weight 0.504 kg Environment Ip Degree Of Protection IP20 with protective cover in place Product Certifications IP20 with protective cover in place Electromagnetic Compatibility IEC 61010-2-201 IEC 61131-2 Electromagnetic Compatibility IEC 61000-4-2 Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 0.0 V/m (80 MHz3 GHz) conforming to IEC 61000-4-3 Magnetic field at power frequency - test level: 2 NV (contact discharge) conforming to IEC 61000-4-3 Electrical fist transient/burst immunity test - test level: 2 kV (contact discharge) conforming to IEC 61000-4-4 Electrical fist transient/burst immunity test - test level: 2 kV (power lines) conforming to IEC 61000-4-4 Electrical fist transient/burst immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-4 Electrical fist transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 2 kV (power lines (DC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 µs shock waves immunity te	Mounting Support	Top hat type TH35-15 rail conforming to IEC 60715
Width 175 mm Net Weight 0.504 kg Environment Ip Degree of Protection IP20 with protective cover in place Product Certifications IACS E10 cULus RCM CSA Standards IEC 61010-2-201 IEC 61000-4-2 Electromagnetic Compatibility Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 6 kV (contact discharge) conforming to IEC 61000-4-3 Magnetic field at power frequency - test level: 30 A/m conforming to IEC 61000-4-3 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 (contact discharge) conforming to IEC 61000-4-4 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 (iVO) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (vicerial link) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DCI)) 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 (iVO) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (iVO) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (ACI)) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (ACI)) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (ACI)) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (ACI)) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (ACI)) conform		Top hat type TH35-7.5 plate or panel with fixing kit conforming to IEC 60715
Product Certifications	Height	90 mm
Environment ip Degree Of Protection IP20 with protective cover in place Product Certifications IACS E10 cULus RCM CSA Standards IEC 61010-2-201 IEC 61131-2 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 (I/O) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (Felay output) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 1.250 us shock waves immunity test - test level: 2 kV (relay output) conforming to IEC 61000-4-5 1.250 us shock waves immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-5 1.250 us shock waves immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-5 1.250 us shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 us shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 us shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 us shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 us shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.250 us shock waves immun	Depth	70 mm
Environment Ip Degree Of Protection IP20 with protective cover in place Product Certifications IACS E10 cULus RCM CSA Standards IEC 61010-2-201 IEC 61131-2 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 Alegnetic 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 (power lines (DC)) conforming to IEC 61000-4-4 Electrical fast transient/burst 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 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 (shielded cable) 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 1,2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) 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 1,2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1,2/50 µs shock waves immunity test - test level: 1 k	Width	175 mm
IP20 with protective cover in place Product Certifications	Net Weight	0.504 kg
IP20 with protective cover in place Product Certifications		
Product Certifications IACS E10 cULus RCM CSA Standards IEC 61010-2-201 IEC 61010-2-201 IEC 61000-4-2 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 (vo) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-4 Electrical fast transient/burst 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 (relay output) 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: 2 kV (relay output) conforming to IEC 61000-4-5 1.2/50 μs shock waves immunity test - test level: 1 kV (J/O) conforming to IEC 61000-4-5 1.2/50 μs 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: 1 kV (power lines (AC)) 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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) 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 1.2/50 μs shock w	Environment	
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 61000-4-3 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: 1 kV (I/O) 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 (I/O) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (power lines) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test - test level: 2 kV (power lines (DC)) 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 µs 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: 1 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 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) 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 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 65011 Conducted emission - test level: 73 dBµV/m QP/60 dBµV/m AV (power lines (AC)) conf	Ip Degree Of Protection	IP20 with protective cover in place
Standards IEC 61010-2-201 IEC 61131-2 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 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-4 Electrical fast transient/burst 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 (brower lines (AC)) 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 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-6 Conducted R fisturbances - test level: 10 V (0.1580 MHz) conforming to IEC 61000-4-6 Conducted R mission - test level: 73 dBµV/m QP/60 dBµV/m AV (power lines (AC)) conforming to IEC 65011 Radiated emission - test level: 40 dBµV/m QP/60 dBµV/m AV (power lines (AC)) conforming to IEC 65011 Radiated emission - test level: 4	Product Certifications	IACS E10
Standards IEC 61010-2-201 IEC 61030-4-2 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 (l/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 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test - test level: 2 kV (power lines (DC)) 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 (l/O) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (l/O) conforming to IEC 61000-4-5 1.2/50 µs 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: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-6 Conducted RF disturbances - test level: 10 V (0.1580 MHz) conforming to IEC 61000-4-6 Conducted RF disturbances - test level: 73 dBµV/m QP/66 dBµV/m AV (power lines (AC)) conforming to IEC 65011 Conducted emission - test level: 73 dBµV/m QP/60 dBµV/m AV (power lines (AC)) conforming to IEC 65011 Radiated emission - test level: 47 dBµV/m QP class A (10 m) co		cULus
Electromagnetic Compatibility Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 8 kV (contact discharge) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (80 MHz3 GHz) conforming to IEC 610000-4-3 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 (l/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 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test - test level: 2 kV (power lines (DC)) 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 (l/O) conforming to IEC 61000-4-5 1.2/50 µs 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: 1 kV (shielded cable) 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 1.2/50 µs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-6 Conducted RF disturbances - test level: 10 V (0.1580 MHz) conforming to IEC 61000-4-6 Conducted RF disturbances - test level: 79 dBµV/m QP/66 dBµV/m AV (power lines (AC)) conforming to IEC 65011 Radiated emission - test level: 40 dBµV/m QP/66 dBµV/m AV (power lines (AC)) conforming to IEC 65011 Radiated emission - test level: 47 dBµV/m QP class A (10 m) conforming to		
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 (relay output) 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 µs 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: 1 kV (shielded cable) conforming to IEC 61000-4-5 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: 1 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 61000-4-6 Conducted emission - test level: 79 dBpV/m QP/60 dBpV/m AV (power lines (AC)) conforming to IEC 65011 Radiated emission - test level: 47 dBpV/m QP class A (10 m) conforming to IEC 55011 Radiated emission - test level: 47 dBpV/m QP class A (10 m) conforming to IEC		CSA
Electromagnetic Compatibility Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - 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 (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 12/50 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 (relay output) 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 µs 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: 1 kV (shielded cable) conforming to IEC 61000-4-5 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: 1 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 61000-4-6 Conducted RF disturbances - test level: 79 dBpV/m QP/60 dBpV/m AV (power lines (AC)) conforming to IEC 65011 Radiated emission - test level: 47 dBpV/m QP class A (10 m) conforming to IEC 65011 Radiated emission - test level: 47 dBpV/m QP class A (10 m) conforming to IEC	Standards	IEC 61010-2-201
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 Electrical fast transient/burst 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 (DC)) 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 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: 1 kV (shielded cable) conforming to IEC 61000-4-5 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: 1 kV (power lines (AC)) 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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) 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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) 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-		IEC 61131-2
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 Electrical fast transient/burst 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 (DC)) 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 μs shock waves immunity test - test level: 1 kV (k) (power lines (DC)) conforming to IEC 61000-4-5 1.2/50 μs 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: 1 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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) 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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) 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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 6100	Electromagnetic Compatibility	Electrostatic discharge immunity test - test level: 8 kV (air discharge) conforming to
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 µs 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: 1 kV (shielded cable) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 1.2/50 µs s		
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 Electrical fast transient/burst immunity test - test level: 1 kV (power lines (DC)) conforming to IEC 61000-4-4 1.2/50 μs shock waves immunity test - test level: 2 kV (power lines (DC)) 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 μs shock waves immunity test - test level: 1 kV (I/O) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 1.2/50 μs shock waves immunity test - test level: 10 V (0.1580 MHz) conforming to IEC 61000-4-5 1.2/50 μs shock waves immuni		Electrostatic discharge immunity test - test level: 6 kV (contact discharge) conforming
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 μs 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 Conducted Ref siturbances - test level: 10 V (0.1580 MHz) conforming to IEC 61000-4-6 Conducted emission - test level: 79 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		
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 μs 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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 61000-4-5 0.0 μs shock waves immunity test - test level: 10 V (0.1580 MHz) conforming to IEC 61000-4-6 Conducted emission - test level: 79 dBμV/m QP/60 dBμV/m AV (power lines (AC)) conforming to IEC 55011 Conducted emission - test level: 40 dBμV/m QP class A (10 m) conforming to IEC 55011 Radiated emission - test level: 40 dBμV/m QP class A (10 m) conforming to IEC 55011		
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 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 (DC)) 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: 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 μs 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: 1 kV (shielded cable) conforming to IEC 61000-4-5 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 1 kV (power lines (AC)) 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 1.2/50 μs shock waves immunity test - 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 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		
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 (l/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 (l/O) conforming to IEC 61000-4-5 1.2/50 μs 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: 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 (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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) 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 1.2/50 μs shock waves immunity test - test level: 1 kV (power lines (AC)) conforming to IEC 65011 1.2/50 μs shock waves immunity test - test level: 40 dBμV/m QP/60 dBμV/m AV (power lines (AC)) conforming to IEC 55011 1.2/50 μs description - test level: 40 dBμV/m QP class A (10 m) conforming to IEC 55011 1.2/50 μs description - test level: 40 dBμV/m QP class A (10 m) conforming to IEC		
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 μs 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: 1 kV (power lines (DC)) conforming to IEC 61000-4-5 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: 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 class A (10 m) 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		
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 μs 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 (DC)) conforming to IEC 61000-4-5 Conducted RF disturbances - test level: 1 kV (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: 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		
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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: 2 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 μs 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 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: 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		· · · · · · · · · · · · · · · · · · ·
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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 μs 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 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		
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Radiated emission - test level: 40 dB μ V/m QP class A (10 m) conforming to IEC 55011 Radiated emission - test level: 47 dB μ V/m QP class A (10 m) conforming to IEC		
Radiated emission - test level: 47 dBμV/m QP class A (10 m) conforming to IEC		Radiated emission - test level: 40 dBµV/m QP class A (10 m) conforming to IEC
55011		
		55011

15 gn for 11 ms 30 gn for 6 ms

Shock Resistance

Immunity To Microbreaks	10 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	9.388 cm
Package 1 Width	13.744 cm
Package 1 Length	18.809 cm
Package 1 Weight	767.5 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	9716 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	242184 g



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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 >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

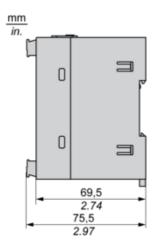
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

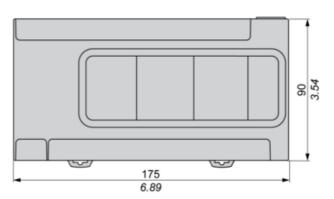
TM200C40R

Dimensions Drawings

Dimensions Drawings

Dimensions

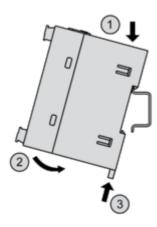




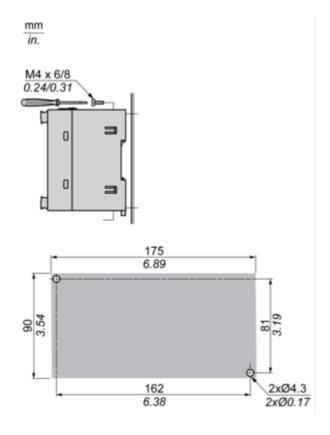
Mounting and Clearance

Mounting and Clearance

Mounting on a Rail

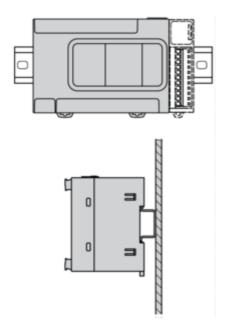


Direct Mounting on a Panel Surface



Mounting Position

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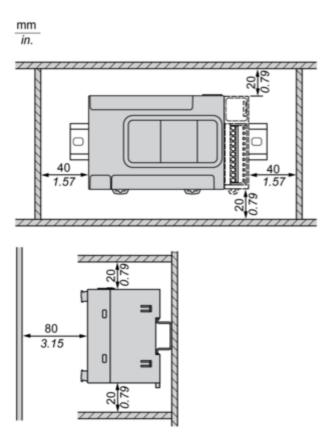




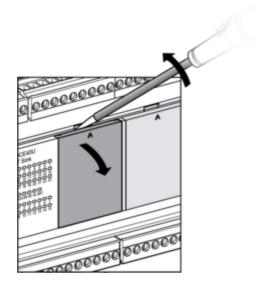




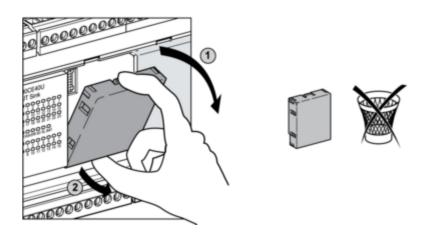
Clearance

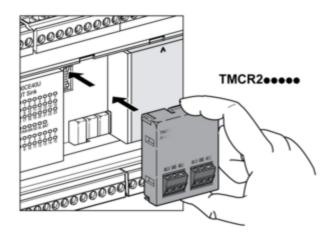


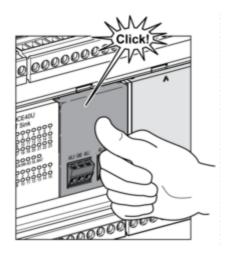
TMCR2•••Installation



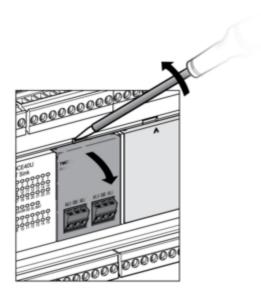
TM200C40R

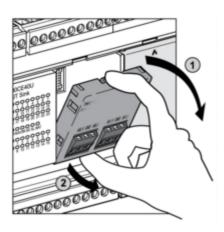


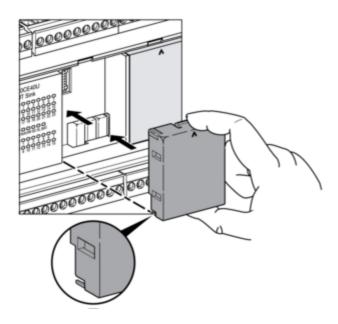




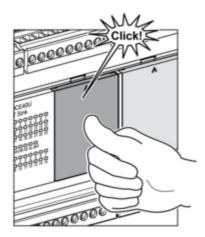
TMCR2 ••• De-Installation







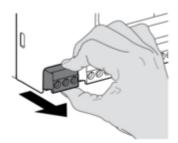
TM200C40R

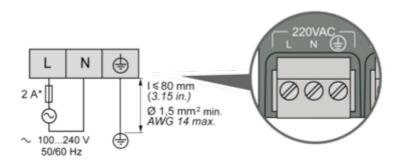


Connections and Schema

Wiring Diagram / Connections Schema

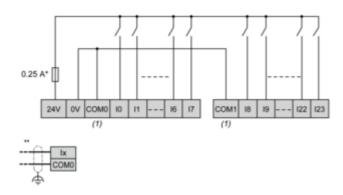
AC Power Supply





(*) Type T fuse

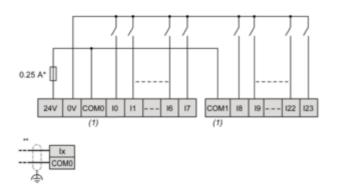
Digital Inputs Positive Logic (Sink)



- (*) Type T fuse
- (**) Fast inputs
- (1) The COM0 and COM1 terminals are **not** connected internally.

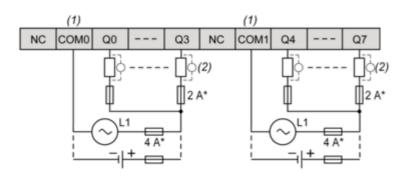
Digital Inputs Negative Logic (Source)

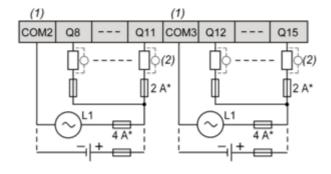
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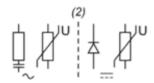


- (*) Type T fuse
- (**) Fast inputs
- (1) The COM0 and COM1 terminals are **not** connected internally.

Relay Outputs - Negative Logic (Sink)



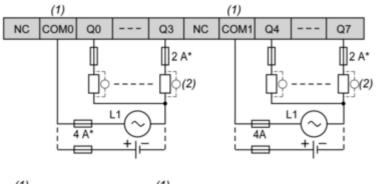


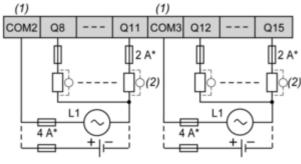


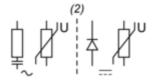
- (*) Type T fuse
- (1) The COM0 and COM1 terminals are **not** connected internally.
- (2) A free wheeling diode or an RC snubber

Relay Outputs - Positive Logic (Source)

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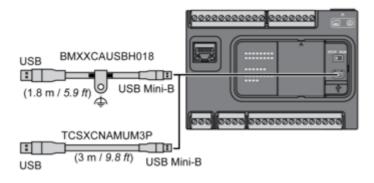






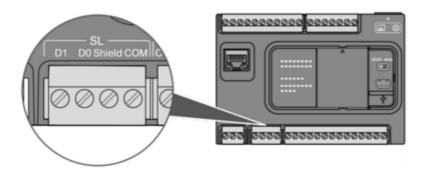
- (*) Type T fuse
- (1) The COM0 and COM1 terminals are **not** connected internally.
- (2) A free wheeling diode or an RC snubber

USB Mini-B Connection



SL1 Connection

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D1: D1 (A+) **D0**: D0 (B-) **Shield**: Shield **COM**: O V Com