



Main

Range of product	Modicon TM3
Product or component type	Parallel interface module
Product specific application	TeSys Quickfit TeSys U TeSys D
Range compatibility	Modicon M251 Modicon M241 Modicon M221
[Us] rated supply voltage	24 V DC by external supply (- 15...20 %)
Number of input channels	12
Number of output channels	8

Complementary

Current consumption	0 mA at 24 V DC via bus connector at state on 5 mA at 5 V DC via bus connector at state on 35 mA at 5 V DC via bus connector at state off 10 mA at 24 V DC via bus connector at state off 1200 mA at 24 V DC external power supply at state on
Input voltage limits	19.2...28.8 V per input
Input current limits	5 mA per input
Response time	< 10 ms turn-on for input < 10 ms turn-off for input
Output voltage	24 V DC (transistor output)
Maximum load current	300 mA per channel in normal mode 800 mA per channel in starting mode during 100 ms
Insulation	Non-insulated between RJ45 connectors Between the RJ45 connectors and internal logic : 500 V AC
Output protection type	Against overload by current limiter
Reset	Automatic reset
Local signalling	3 LEDs green per channel for input status 2 LEDs green per channel for output status
Electrical connection	4 RJ45 connectors for connecting the motor starters

	Removable screw terminal block with pitch 5.08 mm, clamping capacity 2.5 mm², 3 terminals for connecting the 24 V DC power supply
Standards	EN/IEC 61131-2 EN/IEC 61010-2-201
Product certifications	CULus C-Tick
Marking	CE
Resistance to electrostatic discharge	8 kV in air - EN/IEC 61000-4-2 4 kV on contact - EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m (80 MHz...1 GHz) - EN/IEC 61000-4-3 3 V/m (1.4 GHz...2 GHz) - EN/IEC 61000-4-3 1 V/m (2 GHz...3 GHz) - EN/IEC 61000-4-3
Resistance to magnetic fields	30 A/m (50...60 Hz) - EN/IEC 61000-4-8
Resistance to fast transients	1 kV for input - EN/IEC 61000-4-4 1 kV for output - EN/IEC 61000-4-4
Surge withstand	1 kV for input in common mode - EN/IEC 61000-4-5 1 kV for output in common mode - EN/IEC 61000-4-5
Resistance to conducted disturbances, induced by radio frequency fields	10 Vrms (0.15...80 MHz) - EN/IEC 61000-4-6 3 Vrms (spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz)) - Marine specification (LR, ABS, DNV, GL)
Electromagnetic emission	Radiated emissions - EN/IEC 55011 class A 10 m, 230 MHz...1 GHz : 47 dBµV/m QP Radiated emissions - EN/IEC 55011 class A 10 m, 30...230 MHz : 40 dBµV/m QP
Vibration resistance	3.5 mm (f = 5...8.4 Hz) on DIN rail 3 gn (f = 8.4...150 Hz) on DIN rail 3.5 mm (f = 5...8.4 Hz) on panel 3 gn (f = 8.4...150 Hz) on panel
Shock resistance	15 gn during 11 ms
Mounting support	Plate or panel with fixing kit Rail top hat type TH35-15 conforming to IEC 60715 Rail top hat type TH35-7.5 conforming to IEC 60715
Height	90 mm
Depth	85 mm
Width	30 mm
Product weight	0.115 kg

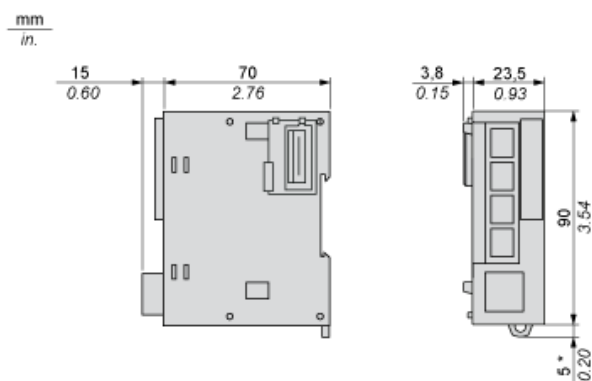
Environment

Ambient air temperature for operation	Vertical installation : -10...35 °C Horizontal installation : -10...55 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	10...95 % without condensation in operation 10...95 % without condensation in storage
IP degree of protection	IP20 with protective cover in place
Pollution degree	2
Operating altitude	0...2000 m
Storage altitude	0...3000 m

Offer Sustainability

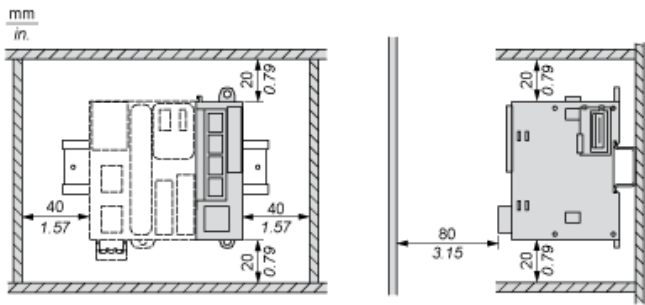
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1348 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product environmental
Product end of life instructions	Available End of life manual

Dimensions

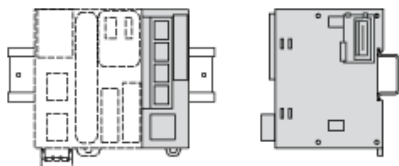


(*) 8.5 mm/0.33 in when the clamp is pulled out.

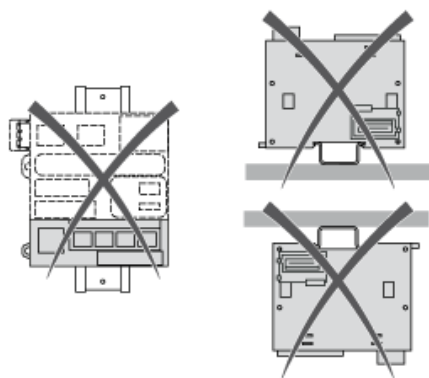
Spacing Requirements



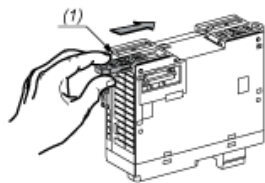
Mounting on a Rail



Incorrect Mounting



Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

