

Product datasheet

Specifications



Modicon TM3 - 4 Tesys motors interface

TM3XTYS4

EAN Code: 3606480611636

Main

Range of product	Modicon TM3
Product or component type	Parallel interface module
Product specific application	TeSys U
[Us] rated supply voltage	24 V DC by external supply (- 15...20 %)
Number of input channels	12
Number of output channels	8
Range compatibility	Modicon M221 Modicon M251 Modicon M241 Modicon M262

Complementary

Current consumption	5 mA at 5 V DC via bus connector at state on 35 mA at 5 V DC via bus connector at state off 0 mA at 24 V DC via bus connector at state on 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 for transistor output
Maximum load current	800 mA per channel in starting mode during 100 ms 300 mA per channel in normal mode
Insulation	Between the RJ45 connectors and internal logic at 500 V AC Non-insulated between RJ45 connectors
Output protection type	Against overload, protection technology: current limiter
Reset	Automatic reset
Local signalling	3 LEDs green for input status per channel 2 LEDs green for output status per channel
Electrical connection	3 x 2.5 mm ² removable screw terminal block with pitch 5.08 mm adjustment for connecting the 24 V DC power supply 4 RJ45 connectors for connecting the motor starters
Mounting support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 plate or panel with fixing kit
Height	90 mm
Depth	85 mm
Width	30 mm

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

Product weight	0.115 kg
DC supply voltage	24 V

Environment

Product certifications	CE cULus UKCA RCM EAC
Marking	CE
Resistance to electrostatic discharge	8 kV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m 80 MHz...1 GHz conforming to EN/IEC 61000-4-3 3 V/m 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz...3 GHz conforming to EN/IEC 61000-4-3
Resistance to magnetic fields	30 A/m 50/60 Hz conforming to EN/IEC 61000-4-8
Resistance to fast transients	1 kV for input conforming to EN/IEC 61000-4-4 1 kV for output conforming to EN/IEC 61000-4-4
Surge withstand	1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV output common mode conforming to EN/IEC 61000-4-5
Resistance to conducted disturbances	10 V 0.15...80 MHz conforming to EN/IEC 61000-4-6 3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) conforming to Marine specification (LR, ABS, DNV, GL)
Electromagnetic emission	Radiated emissions - test level: 40 dBµV/m QP class A (10 m) at 30...230 MHz conforming to EN/IEC 55011 Radiated emissions - test level: 47 dBµV/m QP class A (10 m) at 230...1000 MHz conforming to EN/IEC 55011
Ambient air temperature for operation	-10...35 °C vertical installation -10...55 °C horizontal installation
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
Vibration resistance	3.5 mm at 5...8.4 Hz on DIN rail 3 gn at 8.4...150 Hz on DIN rail 3.5 mm at 5...8.4 Hz on panel 3 gn at 8.4...150 Hz on panel
Shock resistance	15 gn for 11 ms
IP degree of protection	IP20

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.500 cm
Package 1 Width	12.500 cm
Package 1 Length	10.500 cm
Package 1 Weight	215.000 g

Unit Type of Package 2	S04
Number of Units in Package 2	42
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	10.000 kg
Unit Type of Package 3	P12
Number of Units in Package 3	504
Package 3 Height	80.000 cm
Package 3 Width	105.000 cm
Package 3 Length	125.000 cm
Package 3 Weight	62.296 kg

Logistical informations

Country of origin	TW
-------------------	----

Contractual warranty

Warranty (in months)	18
----------------------	----

Environmental Data

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	
Total lifecycle Carbon footprint	134 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	14 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	119 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	91cf81c4-f22d-428b-a036-2e24fcc66509
EU RoHS Directive	Compliant
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	Yes

Use Longer

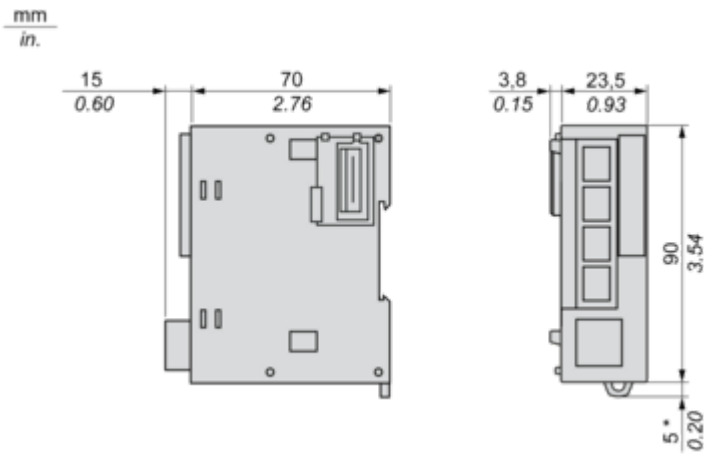
 Lifetime extension	
Repair	No

Use Again

 Repack and remanufacture	
Recyclability potential, in %	3
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

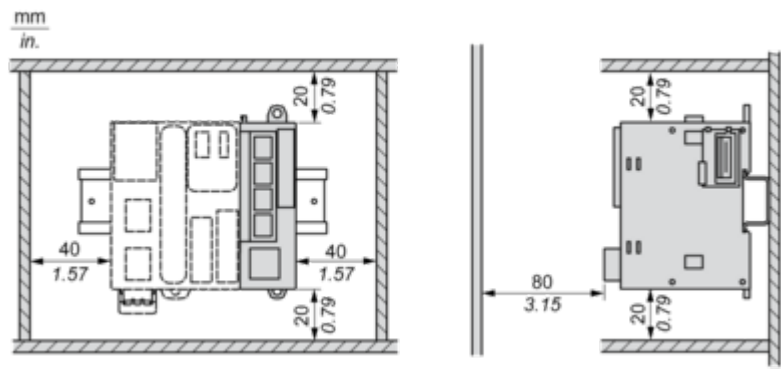
Dimensions



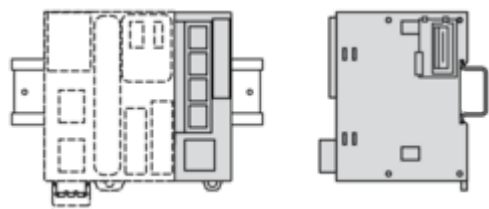
(*) 8.5 mm/0.33 in when the clamp is pulled out.

Mounting and Clearance

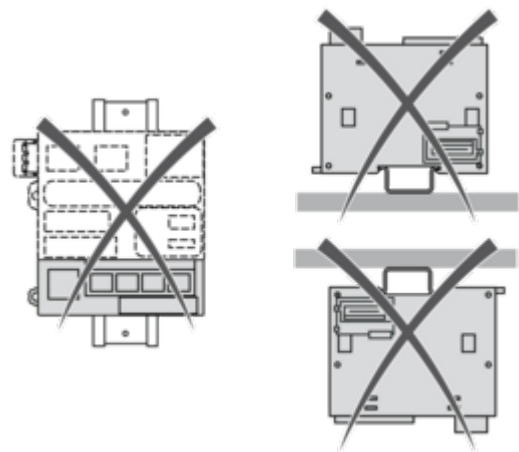
Spacing Requirements



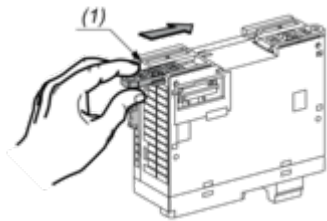
Mounting on a Rail



Incorrect Mounting



Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

