Product data sheet
Characteristics

TM3XTYS4
Parallel interface module, Modicon TM3, 4 Tesys motors

Main

Range of product	Modicon TM3
Product or component type	Parallel interface module
Product specific application	TeSys U
Range compatibility	Modicon M221 Modicon M251 Modicon M241 Modicon M262
[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	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 mm² removable screw terminal block with pitch 5.08 mm adjustment for connecting the 24 V DC power supply 4 RJ45 connectorsfor 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
Net weight	0.115 kg

Environment

Product certifications	C-Tick CULus
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

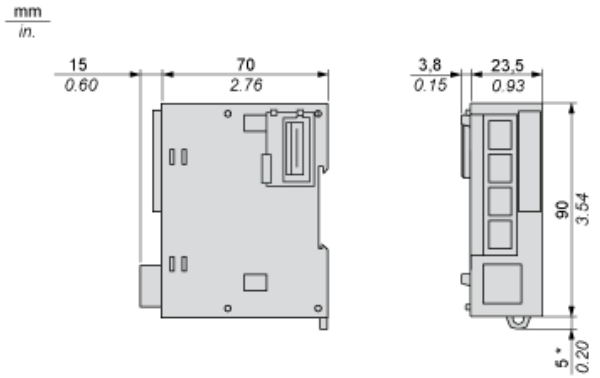
Packing Units

Package 1 Weight	220.000 g
Package 1 Height	75.000 mm
Package 1 width	105.000 mm
Package 1 Length	125.000 mm

Offer Sustainability

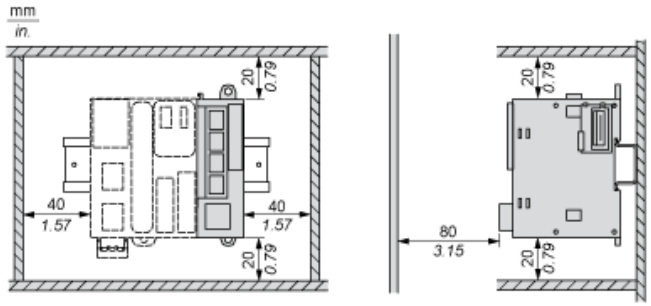
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Dimensions

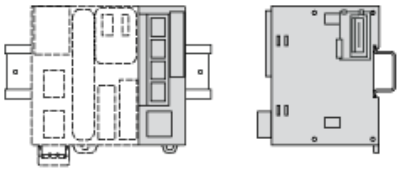


(*) 8.5 mm/0.33 in when the clamp is pulled out.

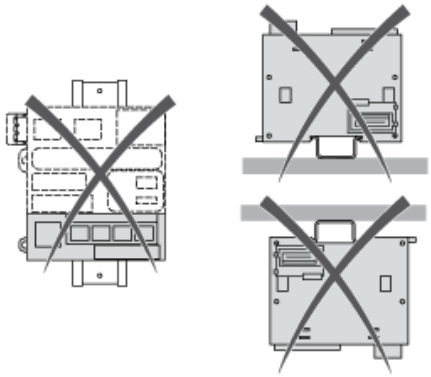
Spacing Requirements



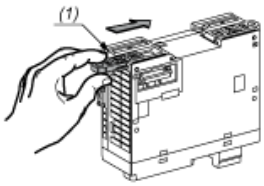
Mounting on a Rail



Incorrect Mounting



Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout