Product datasheet
Characteristics

TM3XTYS4
module TM3 tesys interface 4XRJ45

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 M221 Modicon M241 Modicon M251
[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	C-Tick CULus
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