

TM3DQ16T Manual

Brand	-
Product Series	Sheet1
Product Type	Discrete output module

Description

TM3DQ16T Modicon TM3 - 16 outputs transistor
PNP (screw)

Main

Range of product Modicon TM3

Product or component type Discrete output module

Range compatibility Modicon M241

Modicon M251

Modicon M221

Modicon M262

Discrete output type Transistor

Discrete output number 16

Discrete output logic Positive logic (source)

Discrete output voltage 24 V DC for transistor output

Discrete output current 500 mA for transistor output

Complementary

Discrete I/O number 16

Current consumption 5 mA at 5 V DC via bus connector (at state off)

0 mA at 24 V DC via bus connector (at state off)

15 mA at 5 V DC via bus connector (at state on)

20 mA at 24 V DC via bus connector (at state on)

Response time 450 μ s (turn-on)

450 μ s (turn-off)

Maximum leakage current 0.1 mA for transistor output

Maximum voltage drop <0.4 V

Maximum tungsten load <3 W for transistor output

Local signalling 1 LED per channel (green) for output status

Electrical connection 10 x 1.5 mm² removable screw terminal block with pitch 3.81 mm adjustment for outputs

Maximum cable distance between devices

Unshielded cable: <30 m for transistor output

Insulation Non-insulated between outputs

Between output and internal logic AC

Marking CE

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 84.6 mm

Width 27.4 mm

Net weight 0.11 kg

Environment

Standards IEC 61131-2

Product certifications cULus

CE

UKCA

RCM

EAC

cULus HazLoc

Resistance to electrostatic

discharge

8 kV in air conforming to IEC 61000-4-2

4 kV on contact conforming to IEC 61000-4-2

Resistance to electromagnetic

fields

10 V/m 80 MHz...1 GHz conforming to IEC 61000-4-3

3 V/m 1.4 GHz...2 GHz conforming to IEC 61000-4-3

1 V/m 2 GHz...3 GHz conforming to IEC 61000-4-3

Resistance to magnetic fields 30 A/m 50/60 Hz conforming to IEC 61000-4-8

Resistance to fast transients 1 kV for I/O conforming to IEC 61000-4-4

Surge withstand 1 kV I/O common mode conforming to IEC 61000-4-5 DC

Resistance to conducted

disturbances

10 V 0.15...80 MHz conforming to 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 dB μ V/m QP class A (10 m) at 30...230 MHz conforming to IEC 55011

Radiated emissions - test level: 47 dB μ V/m QP class A (10 m) at 230...1000 MHz conforming to 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

Unit Type of Package 1 PCE

Number of Units in Package 1 1

Package 1 Height 7.561 cm

Package 1 Width 10.624 cm

Package 1 Length 12.982 cm

Package 1 Weight 220.0 g

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