

Schneider Service Manual

TM3DQ8R

1. Description

Schneider Electric TM3DQ8R

3. Product Information

Schneider Electric TM3DQ8R

Modicon TM3 - 8 relay outputs (screw) 24Vdc

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 Relay normally open

Discrete output number 8

Discrete output logic Positive or negative

Discrete output voltage 24 V DC for relay output

240 V AC

Discrete output current 2000 mA for relay output

Complementary

Discrete I/O number 8

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)

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

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

Response time 10 ms (turn-on)

5 ms (turn-off)

Mechanical durability 20000000 cycles

Minimum load 10 mA at 5 V DC for relay output

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

Electrical connection 11 x 2.5 mm² removable screw terminal block with pitch 5.08 mm adjustment for outputs

Maximum cable distance between devices Unshielded cable: <30 m for relay output

Insulation Between output and internal logic at 2300 V AC

Between outputs at 750 V AC

Between output groups at 1500 V 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 EN/IEC 61131-2

Product certifications CE[RETURN]cULus[RETURN]UKCA[RETURN]RCM[RETURN]EAC[RETURN]cULus

HazLoc

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 2 kV for relay output conforming to EN/IEC 61000-4-4

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

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

Unit Type of Package 1 PCE

Number of Units in Package 1 1

Package 1 Height 7.519 cm

Package 1 Width 10.487 cm

Package 1 Length 12.849 cm

Package 1 Weight 240.0 g