

Schneider Series Service Manual

TM3DQ32UK

1. Description

TM3DQ32UK Schneider Electric

3. Product Information

TM3DQ32UK Schneider Electric

Modicon TM3 - 32 outputs transistor NPN

(HE10)

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 32

Discrete output logic Negative logic (sink)

Discrete output voltage 24 V DC for transistor output

Discrete output current 100 mA for transistor output

Complementary

Discrete I/O number 32

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)

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

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

Response time 450 µs (turn-on)

450 µs (turn-off)

Maximum leakage current 0.1 mA for transistor output

Maximum voltage drop <0.4 V

Maximum tungsten load <1.2 W for transistor output

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

Electrical connection HE-10 connector for outputs

Maximum cable distance between devices Unshielded cable: <5 m for transistor output

Insulation Between output and internal logic at 500 V AC

Non-insulated between outputs

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 81.3 mm

Width 33.5 mm

Net weight 0.112 kg

Environment

Standards EN/IEC 61131-2

Product certifications cULus[RETURN]CE[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 1 kV for I/O 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