TM3DQ8U

discrete output module, Modicon TM3, 8 outputs transistor NPN, screw





Main

Modicon TM3
Discrete output module
Modicon M241 Modicon M251 Modicon M221 Modicon M262
Transistor
8
Negative logic (sink)
24 V DC for transistor output
50 mA for transistor 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) 20 mA at 24 V DC via bus connector (at state on) 10 mA at 5 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
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 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	84.6 mm
Width	27.4 mm
Net weight	0.76 kg

Environment

Standards	IEC 61131-2	
Product certifications	CE[RETURN]cULus[RETURN]UKCA[RETURN]RCM[RETURN]EAC[RETURI HazLoc	N]cULu
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 MHz1 GHz conforming to IEC 61000-4-3 3 V/M 1.4 GHz2 GHz conforming to IEC 61000-4-3 1 V/m 2 GHz3 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	

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Resistance to conducted disturbances	10 V 0.1580 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 dBμV/m QP class A (10 m) at 30230 MHz conforming to IEC 55011 Radiated emissions - test level: 47 dBμV/m QP class A (10 m) at 2301000 MHz conforming to IEC 55011
Ambient air temperature for operation	-1035 °C vertical installation -1055 °C horizontal installation
Ambient air temperature for storage	-2570 °C
Relative humidity	1095 %, without condensation (in operation) 1095 %, without condensation (in storage)
IP degree of protection	IP20 with protective cover in place
Pollution degree	2
Operating altitude	02000 m
Storage altitude	03000 m
Vibration resistance	3.5 mm at 58.4 Hz on DIN rail 3 gn at 8.4150 Hz on DIN rail 3.5 mm at 58.4 Hz on panel 3 gn at 8.4150 Hz on panel
Shock resistance	15 gn for 11 ms

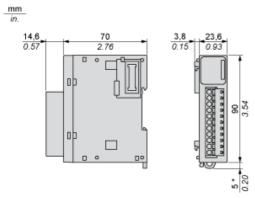
Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	12.5 cm
Package 1 Length	10.5 cm
Package 1 Weight	230.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.427 kg
Unit Type of Package 3	P06
Number of Units in Package 3	144
Package 3 Height	75 cm
Package 3 Width	40 cm
Package 3 Length	80 cm
Package 3 Weight	25.058 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	[™] China RoHS Declaration
RoHS exemption information	€Yes
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

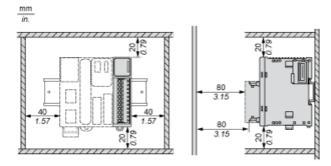
Dimensions



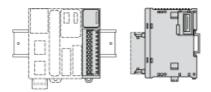
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

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Spacing Requirements



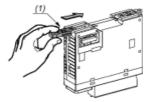
Mounting on a Rail



Incorrect Mounting

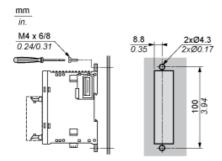


Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

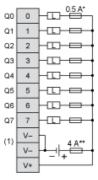


Product data sheet Connections and Schema

TM3DQ8U

Digital Transistor Output Module (8-channel, Sink)

Wiring Diagram



- (*) Type T Fuse (**) Type F fuse Type T Fuse
- (1) The V- terminals are connected internally.